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— CHASING —  
GOLDMAN  
SACHS

HOW THE MASTERS OF THE UNIVERSE  
MELTED WALL STREET DOWN . . . AND WHY  
THEY'LL TAKE US TO THE BRINK AGAIN

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In memory of my grandfather  
James R. Burchell

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## FOREWORD

We think we're number one, but we'll leave that for others to decide." Back in 1983, when John Whitehead, then cochairman of Goldman Sachs & Co. made that statement to a reporter from New York magazine, the investment bank was already well on the way to becoming one of Wall Street's iconic firms. Its bankers proclaimed that they were "long-term greedy"; the denizens of Goldman weren't the type, they declared regally, to try to capture every fraction of a penny of fees and profits, particularly if there was even a question that they might be doing so at the expense of a client relationship. Goldman Sachs even felt itself to be above some businesses—no advising hostile bidders on takeover strategies, for instance; that was far too messy. Then there were some potential clients that a Goldman Sachs banker didn't want to be seen lunching with, much less transacting business with. Goldman's clients were the *crème de la crème*; preserving the firm's name and reputation by choosing who to deal with and what deals to do was more critical than grabbing at an extra few thousand dollars in fees.

Occasionally, something unpleasant would happen to remind Goldman bankers of the solid business reasons behind those lofty principles, such as the firm's brief but damaging relationship with Robert Maxwell. Many Goldman partners had felt skittish about accepting the media tycoon as a client; his checkered past included his being dubbed by a British government inquiry as "not a person who can be relied on to exercise proper stewardship" of a public company. But the allure of earning big fees overrode those concerns—that is, until Maxwell vanished off his yacht into the sea near the Canary Islands and a new investigation revealed that he had looted a billion pounds from his employees' pension funds. British regulators hit Goldman with a fine for its role in the fiasco in 1993; the size of the fine was somewhat less important than the public humiliation, however. Partners vowed that never again would Goldman Sachs be named and shamed in such a manner.



And yet, in the summer of 2010, Robert Khuzami, head of the enforcement division of the Securities and Exchange Commission, stood triumphantly in front of a group of reporters and an array of television cameras broadcasting his words globally. He announced that Goldman Sachs had agreed to pay a fine of \$550 million—the largest penalty the SEC had ever imposed on a Wall Street firm—to settle a civil fraud case the agency had filed only months earlier. But Khuzami and the SEC had won more than their \$300 million share of that settlement: Goldman had agreed to acknowledge publicly that the “fundamental basis” of the agency’s lawsuit was accurate. Goldman had failed to live up to its own standards and disclose everything that German bank IKB might have wanted to know about the mortgage securities deal, dubbed Abacus, that lay at the heart of the suit. Specifically, the SEC had claimed Goldman hadn’t fully explained to IKB and other potential investors buying the Abacus package of synthetic mortgage-based securities that hedge fund manager John Paulson had played a key role selecting the specific securities in that transaction—indeed, that the deal was being done at his initiative because he wanted to find a way to profit from what he expected would be a big decline in the value of the securities he chose. That’s precisely what happened: Paulson walked away a billion dollars richer, while IKB became one of the first financial institutions to fall victim to the global financial crisis and require a bailout.

Goldman Sachs, the envy of Wall Street, now found itself under scrutiny for all the wrong reasons. Instead of its peers and rivals trying to figure out what it was doing to earn the astonishing rates of return it delivered like clockwork to its investors, regulators and legislators were putting its business under a microscope. To insiders, it seemed as if everything for which Goldman was once famous and lauded—its creativity in devising and structuring new products; its risk management prowess; the market insight displayed by traders deploying the firm’s own capital to generate returns; the firm’s ability to develop relationships with power players in Washington as well as on Wall Street—now rendered it infamous. Suddenly, everyone was asking what Goldman Sachs had

done to earn the gargantuan profits in recent years; profits that had left other Wall Street CEOs green-eyed with envy and fuming at their own inability to measure up.

But this book—conceived in early 2008, as Bear Stearns collapsed and Wall Street waited, holding its breath, for the next shoe to fall—is not the story of the transformation of Goldman Sachs from Wall Street’s most envied to its most reviled power. Rather, it’s the tale of the ways in which Goldman and the other Wall Street firms that sought to emulate its success underwent a fundamental transformation, and the impact of those changes for Wall Street, its clients, and the financial system as a whole. That transformation—which led to Wall Street being run solely in the interests of Wall Street entities themselves, with clients now viewed as counterparties—paved the way for the financial crisis whose ripple effects continue to reverberate on both Wall Street and Main Street. For the latter—indeed, for most of us—Wall Street’s value lies in its role as a financial utility or intermediary. But as the financial results of Goldman and its rivals demonstrated all too clearly, that’s not where the profit lay. And ever-bigger profits were what Wall Street’s own investors—the shareholders who bought stock in Goldman Sachs, Merrill Lynch, Lehman Brothers, and other firms—demanded, loud and clear.

The SEC’s fraud lawsuit against Goldman Sachs simply made public what many Wall Street insiders had long known: clients need to be able to look out for themselves. Wall Street firms are dealing cards from the bottom of the deck to their friends, while saving the low-value cards for other clients. In case there was any doubt of what Goldman bankers really thought of the deals they were taking to their clients, investigators rapidly made public a series of embarrassing e-mails and other documents. In one, top Goldman banker Tom Montag wrote of another mortgage-backed securities transaction—Timberwolf—that it was “one shitty deal.” Certainly by the time John Paulson came knocking on its door, Goldman knew that being “long” subprime real estate in the spring of 2007 was likely to be a risky bet for anyone agreeing to take the other side of the trade that Paulson wanted to do: after all, the firm was pushing

its team to unload their own exposure to others as rapidly as possible. In an e-mail to a friend, Fabrice Tourre, the banker who structured the deal (and who has not yet been able to settle the SEC's charges against him) wrote of the CDO transactions he was crafting, "the whole business is about to collapse any time now ... Only potential survivor, the fabulous Fab!" In another e-mail, the head of Goldman's structured products correlation trading desk warned Tourre that "the cdo biz is dead" and that "we don't have a lot of time left." None of that gave Goldman Sachs bankers a reason to stop, it seems. Even Bear Stearns had turned away John Paulson, concerned at the ethical implications of allowing a hedge fund manager to choose which securities he would bet against and thus which securities Bear would have had to coax a client to buy outright.

"In the old days, we would never have done business with just anyone who showed up on our doorstep," insists one former Goldman Sachs partner, who says the revelations left him "shocked and dismayed." In the old days, before Goldman Sachs sold stock to the public and its culture began to change irrevocably, "the question would have been 'John Who? Do we know this guy? What is he asking us to do? What are the consequences of this? Is this someone we want and need a relationship with?' Above all, we were always prepared to say 'no.' "

But by the dawn of the twenty-first century, saying "no" to deals wasn't how Wall Street worked anymore. From the mortgage brokers who underwrote the now-notorious "no income, no-docs" home loans all the way up to the investment bankers who just couldn't turn away a John Paulson, even when they had ethical reservations or, as Fabrice Tourre admitted, the securities that they were creating for their investors were "monstrosities"; the very word "no" seemed to have vanished from the lexicons of those toiling within the financial system. And the pressure was on to say "yes" to any deal that could generate a few pennies a share in quarterly earnings, because each and every investment bank and commercial bank was well aware of the extent to which its own return on equity fell short of that being generated by the Midas-like

bankers at Goldman Sachs. Swiss banking giant UBS hired a consulting firm to advise it on the best way to generate profits; Goldman alumnus Robert Rubin, who had moved on to work for Citigroup, only reluctantly acknowledged to colleagues that his new firm had neither the trading skills nor the risk management prowess to beat Goldman at its own game. (That didn't stop Citigroup from trying, of course.) Top bankers at Merrill Lynch & Co. knew to steer clear of their temperamental CEO Stan O'Neal on days that Goldman Sachs released its earnings. "Why can't we earn numbers like that?" he demanded of one subordinate in mid-2005.

The problem for Wall Street wasn't what Goldman Sachs did. It was the attitude that lay behind those actions, combined with the fact that its rivals and eager imitators tried to beat Goldman at its own game. When O'Neal's underlings set out to beat Goldman's return on equity, they succeeded in wiping out a decade's worth of profits by taking gargantuan risks in collateralized debt obligations (CDOs) made up of subprime mortgages. The fallout from UBS's effort to chase Goldman Sachs cost the Swiss bank billions of dollars in losses and writedowns. So far, much of the scrutiny of the financial crisis has been devoted to identifying and analyzing its proximate causes: the boom in risky, subprime lending; the role that securitization and derivatives played in amplifying that risk and spreading it throughout the financial system; and the inadequate risk management methodologies that were exposed by the crash. These are easier to understand and to grasp—but they also create the illusion that since we can name them so readily, they can be fixed with a few well-considered and carefully designed reforms.

There are deeper-seated causes, however, that are far more significant systemic issues that both Wall Street and Washington have yet to address. What purpose does Wall Street serve? What do we have to do to restore public confidence that it can act in the interests of all its stakeholders, not merely those who run it and view it as a way to generate vast profits for themselves? Certainly, Goldman Sachs envy hasn't abated on Wall Street, even if most of its rivals admit that they'd prefer to be known for its Midas touch

than the Abacus transaction. And as long as they keep chasing Goldman Sachs, and what Goldman is doing to earn its hefty profits is weakening the integrity of the financial system, then real reform is still far distant. The Financial Crisis Inquiry Commission's final report touched on this when it noted that both bankers and regulators "ignored warnings and failed to question, understand and manage evolving risks within a system essential to the wellbeing of the American public. Theirs was a big miss, not a stumble." Nor were those members of the FCIC who signed on to the report optimistic about the future. "Some on Wall Street and in Washington with a stake in the status quo may be tempted to wipe from memory the events of this crisis."

True, the playing field has never been a level one for those on Wall Street. Back in 1940, Fred Schwed wrote what has now become a classic book, *Where Are the Customers' Yachts?* In it, a visitor to Manhattan is being shown the sights near Wall Street, including a yacht basin around the Battery. "Look, those are the bankers' and brokers' yachts," his guide points out. "Where are all the customers' yachts?" asked the naive visitor. The punchline was obvious: Wall Street didn't make enough for its clients for them to own yachts. Not much has changed, except that in the wake of the financial cataclysm, some of Wall Street's customers have begun to feel as if they are setting out to sea in leaky rowboats, without their bankers and financial advisors being either ready or willing to dispatch a life raft in case of emergency.

The reason Wall Street exists and the reason it was bailed out by the American taxpayer is that it plays a vital role in our capitalist economy. We need Wall Street—and we need Wall Street to remember that function. But today's Wall Street is far from serving that "utility" role, and it remains to be seen whether the regulatory reform proposals will convince Goldman Sachs and its rivals to reconsider their *raison d'être* and redefine their responsibilities to both their clients and to the financial system itself. None of the survivors can resume chasing Goldman Sachs and lusting after its profits if what Goldman Sachs does and the others try to do in order to earn that rate of return succeeds in undermining the health of the

financial system as a whole. If there is one lesson we all, from the Oval Office on down, need to learn from the crisis, that's it.

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## DRAMATIS PERSONAE

- Patrick Adelsbach: principal of event-driven strategies at Aksia LLC, a hedge fund research and advisory firm
- Scott Amero: fixed-income fund manager at BlackRock, one of the largest asset management firms in the world
- Phil Angelides: former state treasurer of California; currently head of the Financial Crisis Inquiry Commission
- Jeffrey Arricale: portfolio manager at T. Rowe Price with a focus on investing in financial stocks
- Sheila Bair: chairman of the Federal Deposit Insurance Corporation
- Ben Bernanke: chairman of the Federal Reserve
- Lloyd Blankfein: CEO of Goldman Sachs
- Peter Blanton: veteran investment banker who has worked at a variety of large Wall Street firms and now works for a boutique firm
- Brooksley Born: Washington securities lawyer and former head of the Commodity Futures Trading Commission; now a member of the FCIC
- Richard “Dick” Bove: banking analyst at Rochdale Securities; a veteran research analyst
- Lise Buyer: has worked on almost every part of Wall Street as an analyst, banker, and investor; served as director of business optimization at Google; and now has her own firm that helps coach companies through the financing process
- Tom Caldwell: chairman of Caldwell Financial, a Toronto-based investment and trading firm; one of the largest shareholders of the New York Stock Exchange’s parent company
- Marshall “Marsh” Carter: deputy chairman of NYSE Euronext, former chairman of State Street Corporation, and a veteran commercial banker



Tom Casson\* : a former Bear Stearns investment banker; since that firm's collapse, he has worked for two other Wall Street institutions

Jimmy Cayne: former CEO and chairman of Bear Stearns; he spent his professional life at the firm

Steve Cohen: manager of one of the world's biggest hedge funds; known as a ferocious and secretive competitor and an avid art collector

Gary Cohn: president and COO of Goldman Sachs

Leon Cooperman: former Goldman Sachs partner; now runs a large hedge fund group, Omega Advisors

John Costas: rose to head UBS's investment banking; after briefly running a hedge fund group for UBS, he was caught with short-term losses and resigned; launched his own trading and market-making group, Prince-Ridge, in mid-2009

Robert "Bob" Diamond: CEO of Barclays Capital and president of Barclays PLC; Diamond orchestrated the purchase of many of Lehman Brothers' investment banking operations after Lehman's bankruptcy filing; formerly worked for Credit Suisse, among other firms

Jamie Dimon: CEO of JPMorgan Chase, a former protégé of Sandy Weill whom the latter fired at Citigroup and who went on to have the last laugh as the heir to JPMorgan himself during the crisis

Mike Donnelly\*: former Wall Street investment banker who spent most of his career at Morgan Stanley

Glenn Dubin: cofounder of Highbridge Capital, a large hedge fund group now owned by JPMorgan Chase

James "Jimmy" Dunne: CEO of Sandler O'Neill, a smaller investment bank that specializes in serving financial institutions

Ira Ehrenpreis: a general partner at Technology Partners, a Silicon Valley venture capital firm

Gary Farr: former Citigroup banker hired by KKR to build an in-

house investment banking division to assist its portfolio companies

Niall Ferguson: professor of history and business at Harvard University and Harvard Business School; specializes in economic and financial history

Jim Feuille: partner at Crosslink Capital, a venture capital firm

Richard “Dick” Fisher: late CEO of Morgan Stanley; his name often surfaces when people talk about competitive yet principled Wall Street executives

Martin “Marty” Fridson: veteran high-yield bond market analyst; founder of FridsonVision

Richard Fuld: former CEO of Lehman Brothers; a Lehman “lifer”

Timothy Geithner: Treasury secretary; formerly head of the New York Fed

Mike Gelband: former co-head of fixed income at Lehman Brothers

Lou Gelman\*: former investment banker specializing in equity sales and trading at Morgan Stanley

James Gilleran: former head of the Office of Thrift Supervision who bragged about his willingness to cut red tape and make it easier to take risk

Lew Glucksman: Wall Street trader and briefly chairman and CEO of Lehman Brothers

Alan C. “Ace” Greenberg: former chairman of Bear Stearns, whose vision propelled it to the ranks of the “big five” investment banks

Robert “Bob” Greenhill: founder of Greenhill & Co., a merger advisory boutique firm, in 1996 after leaving Morgan Stanley, where he had run that firm’s merger business

Ken Griffin: founder of Citadel Investment Group, one of the largest hedge fund groups in the world; now making a push into investment banking

Tony Guernsey: chief client officer at Wilmington Trust; has worked with many Wall Street figures over the last three decades

William R. “Bill” Hambrecht: former CEO of one of the “four horsemen” (boutique banks that played a decisive role in financing start-up companies), Hambrecht & Quist; since that firm was sold to Chase Manhattan in the late 1990s, has undertaken a variety of quests, all involved in improving financing access for fledgling firms

Nick Harris\*: manager of a large hedge fund

Jeff Harte: banking analyst at Sandler O’Neill

Samuel Hayes: holds Jacob H. Schiff Chair in Investment Banking at the Harvard Business School; has been writing case studies about Wall Street since 1970

Mike Heffernan\*: investment banker on Wall Street

Jaidev Iyer: managing director, Global Association of Risk Professionals; former senior risk manager at Citigroup and its predecessor institutions

Fred Joseph: late founding partner of Morgan Joseph, a boutique investment bank; formerly CEO of Drexel Burnham Lambert

Rob Kapito: president of BlackRock

Todd Kaplan: veteran Wall Street banker recruited by Ken Griffin at Citadel to launch the hedge fund’s push into investment banking; resigned in early January 2010 for personal reasons

Henry Kaufman: the original “Dr. Doom” and a prominent economist at Salomon Brothers; now president of Henry Kaufman & Co.

Dow Kim: briefly headed the fixed-income investment banking operations at Merrill Lynch; tried but failed to launch his own hedge fund after Merrill began to take write-downs

Michael Klein: one of the first architects of a sponsor group of bankers catering to private equity clients; a former Citigroup banker

Bill Kohli: fixed-income portfolio manager at Putnam Investments in Boston

Richard “Dick” Kramlich: cofounder of New Enterprise Associates, a

large Silicon Valley venture capital partnership

Henry Kravis: cofounder of KKR, one of the first large buyout firms

Sallie Krawcheck: former banking analyst and Citigroup chief financial officer; now runs the wealth management business at Bank of America Merrill Lynch

Ken Lewis: former chairman and CEO of Bank of America; negotiated the merger between B of A and Merrill Lynch but was ousted after revelations of large losses at Merrill and agreements to pay Merrill bankers big bonuses

Michael Lipper: architect of data and analysis firm Lipper Advisory Services (now part of Thomson Reuters, named Lipper Inc.)

John Mack: veteran investment banker who has worked at many of Wall Street's most significant firms; until 2010, CEO of Morgan Stanley; remains the firm's chairman

Jake Martin\*: partner at a large New York-based buyout firm

Mike Mayo: veteran banking analyst and managing director at Calyon Securities (USA) Inc.

Larry McInnes\*: veteran technology and telecommunications banker

Tom McNamara\*: investment banker who works within a sponsor group at a Wall Street firm, putting together financing packages for private equity buyouts

Seth Merrin: founder of LiquidNet, a Wall Street trading firm

Michael Milken: at Drexel Burnham Lambert in the 1970s and 1980s, developed the high-yield/junk bond market into a real asset class, but violations of securities laws led to his being banned from the industry for life; now a philanthropist

Eric Mindich: youngest partner in Goldman Sachs history; left the firm to found a hedge fund, Eton Park Capital

Ken Moelis: began his career at Drexel Burnham Lambert; ultimately became president of UBS's investment banking division; left in 2007 to launch his own boutique firm, Moelis & Co.

Angelo Mozilo: chairman and CEO of Countrywide Financial until

2008; cofounder of IndyMac Bank; a symbol of the credit bubble, Countrywide is now owned by Bank of America; IndyMac collapsed

Duncan Niederauer: former partner of Goldman Sachs & Co., CEO of the New York Stock Exchange, and a pioneer in the world of electronic trading

Stanley “Stan” O’Neal: former CEO of Merrill Lynch & Co.; behind the firm’s push into CDOs structured with subprime mortgages

Vikram Pandit: veteran banker and later a hedge fund manager; joined Citigroup and quickly became its CEO

Richard “Dick” Parsons: chairman of the board of Citigroup

Henry “Hank” Paulson: former Goldman Sachs leader who went on to become Treasury secretary in the administration of George W. Bush; an architect of the TARP plan

John Paulson: hedge fund manager who made billions betting that the housing bubble would burst; now betting on a turnaround in financial stocks

Pete Peterson: cofounder of Blackstone Group; previous posts included CEO and chairman of Lehman Brothers between 1973 and 1984

Anna Pinedo: partner at Morrison & Foerster specializing in corporate finance

Charles E. “Chuck” Prince: former CEO of Citigroup

Phil Purcell: former chairman and CEO of Morgan Stanley; ousted by firm dissidents unhappy with the company’s lagging stock price, a reflection of its lack of risk taking

Leslie Rahl: founder of Capital Markets Risk Advisors LLC, a risk management firm that has handled a lot of derivatives debacles

Lewis “Lew” Ranieri: mortgage bond and securitization pioneer at Salomon Brothers

Clayton Rose: former banker at JPMorgan Chase; now an adjunct professor at Harvard Business School

Wilbur Ross: former investment banker and “workout specialist” at

Rothschild Investments; founded his own private investment firm, WL Ross & Co. LLC, in 2000

Nouriel Roubini: economist and professor at New York University's Stern School; known as "Dr. Doom" for his pessimistic economic forecasts

Jeff Rubin: director of research at Birinyi Associates; has studied the way financial markets function

Robert "Bob" Rubin: former Goldman Sachs partner and Treasury secretary during the Clinton administration; went on to work as a director and advisor at Citigroup

Ralph Schlosstein: CEO of Evercore Partners; cofounded BlackRock, a major asset management firm

Stephen "Steve" Schwarzman: cofounder of Blackstone Group; formerly an investment banker at Lehman Brothers

Peter Solomon: veteran Wall Street banker and Lehman Brothers alumnus; now runs his own boutique investment bank, Peter J. Solomon Co.

Larry Sonsini: chairman of Wilson Sonsini Goodrich & Rosati, a Silicon Valley-based national law firm that advises start-ups and Fortune 500 companies

Mike Stockman: former risk management officer at UBS

Richard "Dick" Sylla: Henry Kaufman Professor of the History of Financial Institutions and Markets, Stern School of Business, New York University

James "Jim" Tanenbaum: partner at Morrison & Foerster specializing in corporate finance

John Thain: former CEO of Merrill Lynch; previously CEO of the New York Stock Exchange and a partner at Goldman Sachs

Leo Tilman: president of L. M. Tilman, a risk advisory firm; contributing editor of The Journal of Risk Finance, and former executive at BlackRock and Bear Stearns

Mark Vaselkiv: fixed-income manager at T. Rowe Price in Baltimore

David Viniar: chief financial officer of Goldman Sachs

Paul Volcker: former Federal Reserve chairman; named chairman of Economic Recovery Advisory Board by President Barack Obama; championed the idea of re-creating a division between risk-taking and deposit-taking institutions on Wall Street

Sandy Weill: financier who combined risk-taking and deposit-taking institutions on Wall Street with the formation of Citigroup; his view of a financial supermarket was largely responsible for the repeal of the 1933 Glass-Steagall Act that separated investment and commercial banking

\* Indicates a pseudonym.

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# INTRODUCTION

## The Chase

Does Wall Street owe the American people an apology?”

Tom Casson\* heard the question—the one on the minds of every American taxpayer furious at the very idea of footing the bill for Wall Street’s excesses in the shape of the \$700 billion bailout package under debate in a Senate hearing room—from the television on the trading floor just outside his office. He saw himself as part of Wall Street—it was where he had spent nearly all his working life—so the very idea that some senator from who knows where thought he should apologize to the country piqued his curiosity immediately. “Why would I and the rest of my guys do that?” he wondered. Still, listening to either Treasury secretary Henry “Hank” Paulson or Federal Reserve chairman Ben Bernanke struggle to answer the question in a way that would keep the members of the Senate Banking Committee happy had to be more fun than just watching the red lines on his Bloomberg terminal that signaled stock and bond market index levels inching their way lower and lower with every passing minute. In search of distraction, Casson got up from behind his desk and ambled toward the trading floor. Leaning against the glass wall that separated his small fiefdom from the hurly-burly of the floor, he waited for the answer.

It wasn’t what he expected to hear. After a lot of hemming and hawing, Ben Bernanke finally replied that to most of America, “Wall Street itself is a ... is a ... is an abstraction.” Casson felt as if he’d accidentally stuck his finger in an electrical socket. He stood upright, staring at the television in astonishment. What had Bernanke just said? Can he really have just described Wall Street as an abstraction? In Casson’s eyes, Wall Street couldn’t be less abstract

—it's where businesses find capital, where investors with capital find places to put it to work in hopes of earning a return. Over the decade that he had toiled on the Street, Casson had raised money for some of those companies and helped others to negotiate multibillion-dollar mergers. Now the politicians were demanding that he and his colleagues apologize for what they spent their lives doing? Even worse, the head of the Federal Reserve—the individual who was the public face of banking regulation and monetary policy making—couldn't find a better word to describe Wall Street than abstraction. Months later, Casson was still bemused. "How could anyone say that Wall Street was an abstraction?" he wondered aloud. What had happened to make even the Fed chairman blind to Wall Street's real value?

The details of what happened during the weekend in September that preceded those Senate hearings, the weekend of frenetic deal making, hectic negotiations, and never-ending meetings within the Fed's fortress-like New York headquarters involving nearly every top figure on Wall Street, have by now been told and retold. We know that Merrill Lynch held its board meeting to approve the sale of the firm to Bank of America at the St. Regis Hotel in Manhattan; that Securities and Exchange Commission (SEC) chairman Christopher Cox accused a British counterpart of being "very negative"; that Hank Paulson commuted to the negotiations downtown from a suite at the Waldorf Astoria in midtown Manhattan. We even know the favorite route for the dawn runs by Timothy Geithner (then head of the New York Fed, who would succeed Paulson at the Treasury Department in the New Year) along the southern tip of Manhattan.<sup>1</sup> We know what happened—the names of the firms that failed, and those that rapidly returned to making money hand over fist. (We still don't know the names of those institutions saved from disaster by last-minute help from the Treasury Department, but if media organizations make a compelling freedom-of-information case to the courts, that information won't be long in coming.) We know the proximate

causes of the crisis: too much leverage, too much risk, and too much subprime lending.

This book will take you on a different journey. Instead of rehashing every detail of what happened to Wall Street, I'll take you behind the scenes and show you just why our financial system came so close to falling over the edge of the abyss. How did we reach the point where Wall Street was in so much jeopardy that the staid and somewhat self-important Paulson was willing to go down on one knee in front of House of Representatives Speaker Nancy Pelosi—a Democratic politician most investment bankers distrusted and even roundly disliked—to beg for her assistance in passing a financial aid package for the surviving firms, including his own alma mater, Goldman Sachs? Above all, what had happened to Wall Street that Bernanke could describe it as an “abstraction” and be greeted not with howls of outrage or confused questions by his audience but rather with nods of acknowledgment and understanding?

Truth is, Wall Street isn't an abstraction but a kind of public utility. That's a characterization liable to make those who work on the Street bristle in indignation. But in many ways, the financial system of which Wall Street is a critical part bears an uncanny similarity to any power company or water system. When you come home at the end of the day, you count on being able to flick a switch and see your lights come on; in the morning, you rely on being able to turn on a tap and get clean running water for your shower. You almost certainly rely on Wall Street in the same unconscious way. Wall Street offers us an array of investment ideas for our retirement portfolios; Wall Street institutions finance our entrepreneurial dreams and lend us the capital we need to help us buy homes, cars, and even birthday gifts for friends and family. (Sure, they make money doing that—but so do the power company and the water company.)

From its inception Wall Street had been there to serve Main Street, and it took that role seriously. “It was valued; serving your corporate clients, if you were an institutional firm like Morgan Stanley, or investors, if you were a retail-oriented firm like Merrill

Lynch, exceedingly well was the ticket to success on Wall Street,” says Samuel Hayes, professor emeritus at the Harvard Business School. The problem is that from the 1970s onward, serving as a public utility and performing these intermediary functions for the people on both ends of the “money grid” (investors and companies needing capital) just wasn’t as profitable as it used to be.

That’s the starting point for this book, which will explain just how and why Wall Street drifted away from its core intermediary function and morphed from utility to casino, under pressure from those running Wall Street firms and from their investors. Both of those groups put a priority not on fulfilling Wall Street’s role as a utility but on finding the most profitable products and business strategies, of which subprime lending and structured finance were only the latest—and, so far at least, the most toxic—manifestations.

Eventually, these insiders came to treat Wall Street as if it were any other business, only as valuable as the profits they could extract from it. Instead of turning to proprietary trading or structured finance only to supplement their returns from the less profitable utility-like or intermediary operations, many Wall Street firms deemphasized Main Street altogether in favor of catering to Wall Street clients: hedge funds, private equity funds, and their own principal investing and proprietary trading divisions. Nor were there any incentives for Wall Street residents to question their collective transformation from quasi-utility to self-serving, risk-taking, profit-maximizing behemoth. Compensation policies across the Street rewarded bankers and traders for turning a blind eye to the needs of the money grid; regulators—agencies charged with ensuring that utilities operate in the public interest—ended up catering to Wall Street rather than trying to rein in its worst excesses.

When utilities come under too much systemic stress, they fail. Think of the electricity system, and what happens when its managers fail to plan for the hottest summer days, when everyone turns on the air conditioner full blast and the demand for power peaks. Like millions of others living in the northeastern United States. I experienced that firsthand one muzzv August afternoon in

2003, when the power to everything from elevators in high-rise office buildings to streetlights on Manhattan's busy roadways flickered off—and stayed off for much of the next twenty-four hours. Suddenly, I realized just how important the power grid was to my life. I joined thousands of others who had to walk home along the darkened New York streets, through the heat and humidity. Eight miles and many hours later, there was no cold water to ease the pain from my blistered feet (the lack of electricity had caused a plunge in water pressure) and no food (there was no way to cook anything); I couldn't even find a cold drink to revive me.

Thankfully, the reasons for the blackout were relatively straightforward. Someone had decided to take a power plant offline, meaning that its output wouldn't be available to customers on one of the hottest days of the year. A bad call. When electricity demand spiked, that put a strain on the high-voltage power lines. Since electricity companies know that can happen, causing power lines to sag dangerously low, they make an effort to keep trees and foliage trimmed back. That didn't happen at one utility—another bad call—and the power lines brushed against some overgrown trees, triggering a series of failures that cascaded throughout the region's power grid.<sup>2</sup>

The 2003 blackout was an accidental phenomenon. But imagine if in the years leading up to the blackout, the power companies had been overrun by a new breed of managers, extremely bright and imaginative engineers armed with MBAs. Imagine that they had been given a completely different mandate by shareholders: blackouts don't happen too often (the last big one was in 1965), so if preparing for one consumes too much capital or limits profits too much, don't bother with it. And imagine that those engineers, in order to maximize profits, decided to use all the money they had saved by not investing in backup capacity and maintenance to build and operate a casino, or some other business that would generate a much higher return in the short run. Finally, imagine that regulators were asleep at the switch and let them do it. Happy shareholders would have richly rewarded the engineers for their efforts right up

until the last minute. And even after the blackout (which would have been far more catastrophic and longer-lasting than that of 2003), while all of us were struggling in the dark, those investors and the engineers would have had more than enough money to buy their own generators to provide power to their mansions.

In a nutshell, that's what happened to Wall Street as it morphed from being an intermediary to being a self-serving, risk-taking machine for generating profits. As long as times were good, few participants stopped to ask questions about this transformation, including those who have today become some of the Street's harshest critics. And even now that we've experienced the near blackout of the financial system, the fingers of blame are pointing to individuals—Richard Fuld, at the helm of Lehman Brothers, for instance, or Christopher Cox, the chairman of the SEC, who looked the other way as Bernie Madoff ran his Ponzi scheme and as the investment banks his agency regulated teetered on the edge of disaster. If we ever are going to be able to devise wise policies for Wall Street and ensure the future health of the financial system, we have to take a hard look at more than just the proximate causes of the debacle, such as subprime lending or the activities of pot-smoking, bridge-playing Jimmy Cayne at Bear Stearns. We need to understand how to make the money grid work properly. Maybe just being an intermediary doesn't generate enough in profits to sustain the system anymore—but that doesn't mean that people running the utility should feel free to toss caution to the wind and start speculating on a host of new and risky businesses.

Bankers are trying to clear up the mess they have made, while in Washington, regulators and policy makers are running around in circles trying to analyze what went wrong and to put in place a new set of rules that will prevent the financial system from coming so close to the brink again. But none of these very smart people is either admitting to or acting on the biggest problem of all: the fact that while Wall Street is as important to our economy and society as any other utility, it doesn't work like one. Let's say that Morgan Stanley decided, as a result of the events of the last two or three years, to pare back the amount of risk it is willing to take. It shuts

down its proprietary trading desk, says it won't act as a principal and invest alongside its clients in businesses, and limits its involvement in risky products such as synthetic credit default swaps. It even decides to turn away underwriting assignments if its bankers conclude that the stocks or bonds the firm would be underwriting would add to the level of risk in the system. Instead, Morgan Stanley focuses on wealth management, on building a commercial banking franchise, or on market making (facilitating the two-way flow of trading in stocks or bonds). What would happen next?

Well, none of these is a high-growth business that will lead to big annual jumps in profitability. Before long, the impact of this decision would show up in the bank's quarterly earnings; with each fiscal quarter, the gap between Morgan Stanley and its rivals would widen, in both absolute levels of profitability and the rate of growth in profits. The bonus pool would shrink, and if this risk-conscious move was one that only Morgan Stanley had made on its own initiative (and not part of a government-mandated change affecting the entire industry), the bank's most talented and skilled employees would be lured away to work for competitors. Ultimately, the investors in Morgan Stanley, those who have purchased its stock in hopes of seeing the value appreciate, would stage a rebellion. It wouldn't take long before they'd protest to the bank's management team and demand that the managers do whatever it takes to keep up with the returns being posted by their peers. If those managers stick to their guns, the investors' next stop would be the offices of the company's directors. It's pretty easy for anyone to imagine what would happen next to the executives who had decided that shunning high-risk but profitable businesses was a good idea. "Give us a new management team, with some guts, that's willing to go out and do what it takes to capture whatever profits are going!" shareholder A would demand. Since the board's absolute duty is to maximize value for shareholders, it wouldn't take long for it to capitulate.

Do you think that couldn't happen? Well, it did, over the course of the last two decades. Over that period, Goldman Sachs emerged as the rival to beat, or at least to try to mimic. The firm seemed to

have a Midas touch: in the decade leading up to the financial crisis, it generated an average annual return of 25.4 percent on shareholders' equity, while the four other large investment banks earned an average return on equity (ROE) of 15 percent annually in the same time frame. No wonder Goldman's rivals were furious as they fended off complaints from their own shareholders. It was clear to every other Wall Street CEO that chasing Goldman Sachs was the only way to boost their personal wealth and simultaneously keep their cantankerous shareholders pacified.

What Goldman was doing, however, was something very different from the traditional business of Wall Street. By 2007, the year that it posted record profits of \$11.6 billion and distributed a bonus pool that was even larger (\$12.1 billion) among its employees, Goldman was getting only about a third of those earnings from serving Main Street clients; the rest came from investing and trading for its own account. It had become commonplace for Goldman's rivals to refer to the firm, scornfully, as a hedge fund disguised as an investment bank, even as they scrambled to mimic the strategy. The problem was that they weren't moving into these businesses because they believed they had a competitive advantage or the most talented bankers and traders. They were doing it just to keep pace with the market leader. And while Goldman Sachs, as we'll see, managed to steer clear of some of the subprime mess, those firms that were just trying to chase Goldman Sachs didn't have the tools or the people to help them properly manage the new risks they were taking.

During those years, when everyone was chasing Goldman Sachs, there was every incentive to just keep doing so and not much encouragement to stop and rethink the strategy. John Costas, former head of investment banking at UBS and one of the Swiss bank's most powerful deal makers, says the system worked in such a way that everyone was under pressure to do whatever it took to grab the extra percentage point of market share or return on equity and to ride roughshod over naysayers. "For a decade, from 1999 through the middle of 2007, anytime you stopped participating, by not adding more risk or by not aggressively pursuing more transactions,



you were wrong.” In other words, chasing Goldman Sachs was a strategy that paid off for so long that Wall Street’s leaders were ill equipped to recognize that it might not always continue to do so.

Nor was it possible to sit out the dance, to not try to emulate Goldman’s golden touch. With the benefit of twenty-twenty hindsight, deciding back in 2003 or 2004 not to get caught up in the business of repackaging subprime mortgages into collateralized debt obligations (CDOs) looks great. At the time, it would have been untenable, says one former senior banker. “What was happening at the bank that did that? The investment analysts are downgrading it, the shareholders are unhappy, and the employees are unhappy because the bonuses aren’t as fat as those their friends are earning. The press is all over the bank, saying it’s not as well run as the other bank.” That, he argues, is the kind of thinking that sealed the doom of some of Wall Street’s most venerable names.

That kind of thinking is still alive and well on Wall Street today, even after the near apocalypse. The quest is already under way for the next “new new thing,” the next product or strategy that will help firms such as Goldman Sachs and its rivals earn massive profits in the short run while creating new risks for the financial system. Perhaps it will be something that Goldman Sachs pioneers, or something that is launched by one of the new boutique institutions. The one certainty is that Wall Street’s mind-set remains unchanged. Left unchecked, every firm will again overlook risk in hopes of gaining a dominant market share in that new product. The financial system has been saved from destruction, but as long as the mind-set of “chasing Goldman Sachs” lingers, it hasn’t been reformed.

As the worst of the crisis recedes into the distance and Wall Street battles to return to business as usual, Goldman Sachs is once again the firm that all its rivals want to emulate, at least when it comes to financial performance. As David Viniar, the firm’s chief financial officer, told a reporter in 2009, “Our model never really changed”<sup>3</sup>; by the end of 2009, Goldman was again rewarding its employees with one of the biggest bonus pools in its history and had returned to reporting astronomically high earnings. Once again, a relatively small proportion of those profits came from serving Main Street.

Wall Street is still oriented toward serving itself—its shareholders and employees—and as long as that collective mind-set endures, we run the risk of another systemic shock.

There is no point sitting around and waiting for Wall Street to apologize to us, individually or collectively. Nor can we content ourselves with the idea that bankers are twenty-first-century cartoon villains and demand that they get their just deserts. It's not even reasonable for us to indulge in bouts of nostalgia for the banking system of the past. True, in hindsight, the 1960s look like a golden age but we can't just wipe out innovations such as high-speed trading based on computer algorithms that didn't exist then. Nor can we force investment banks to return to the days when they weren't large publicly traded corporations but partnerships that valued long-term relationships over short-term quarterly profits. We can't turn back the clock to a time when hedge funds and private equity funds were a tiny sideshow on Wall Street. What we can and must do is understand the way Wall Street functions today and try to align that more closely with its special role in our economy and society.

This book isn't another anecdotal history of the subprime crisis of 2007 and 2008. Rather, it's the tale of how Wall Street's metamorphosis from a utility serving Main Street to a business that took extraordinary risks to maximize its own profits at the expense of that utility function set the stage for that crisis. It's an analysis of where we stand today and where we need to go next—to a world where, instead of blindly chasing Goldman Sachs in hopes of replicating its success, the players that make up Wall Street identify ways to emulate the strengths and avoid the flaws that lie within the business model of Goldman Sachs and seek out their own paths to success. Above all, those strategies must be based on their own competitive strengths and be pursued in a way that doesn't jeopardize Wall Street's core utility function.

The story is told through the eyes of those who lived it, such as Tom Casson—the bankers, traders, research analysts, and investment managers who have spent the bulk of their professional lives on Wall Street. Some of them can recall firsthand the events of the

1970s, when new technologies and new rules began to reshape the world they inhabited. It's the story of how Wall Street came to be seen, even by one of its devotees, as an "abstraction." With any luck, the next time Bernanke uses that phrase to describe the money grid, he'll be met with howls of outrage.

\* Here and throughout the book, a name followed by an asterisk is a pseudonym for a Wall Street professional. Casson, as is true of many of his colleagues still working on Wall Street, does not have permission to speak openly to the press or book authors about what they see happening around them; while their CEOs do, it's rare to find them frank and forthcoming. In cases such as that—where speaking openly and honestly about what individuals on Wall Street witnessed and experienced would have caused trouble for my sources with their employers or investors, and where simply using an anonymous source would have made following the narrative unnecessarily difficult for the reader—I have chosen instead to give these sources a pseudonym. In cases where that is done, their name is followed by an asterisk when they first appear. When senior Wall Street officials declined to be quoted on the record for this book, I have not given them pseudonyms, but simply cited them and referred to their roles on the Street, but not their firms. Reporting this book at the height of the crisis in the winter of 2008 and spring and early summer 2009 proved particularly challenging, as many of these individuals were focused on what was going to happen in the next twenty-four hours or the following week, not what happened in past decades or what might happen over the next decade. "How can you ask us to predict that?" said Fred Joseph, former boss of junk-bond king Michael Milken, who went on to cofound a boutique investment bank but who, sadly, died in late 2009. "We can't predict what we'll have to deal with in a month or two, and how that will change our options." This book reflects the views and thoughts of some two hundred individuals whose lives are tied to Wall Street in one way or another and who, like Joseph, made that effort.



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PART I

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DANCING TO THE MUSIC

The financial markets had begun to feel the first shocks of what would become the worst market earthquake since the Great Depression when, in July 2007, then-Citigroup CEO Charles “Chuck” Prince came up with an unusual metaphor to explain why he and his team were forging ahead with business as usual, making loans to private equity funds to help finance the increasingly gargantuan buyout deals the latter were trying to structure. Sure, the credit markets were rocky, raising fears among some market participants that big banks like Citigroup—those that had been the most aggressive lenders to the LBO community and the biggest participants in the world of structured finance, marketing securitized products and derivatives to clients—would get stuck holding too many of those loans if there were no willing investors to take them off their hands. Prince, too, may have been worried, but he wasn’t going to show it. Instead, he told the *Financial Times*, “as long as the music is playing, you’ve got to get up and dance.” And, he added, Citigroup was “still dancing.”<sup>1</sup>

That music came to a sudden and discordant end only months later, by which time Prince himself had been ousted as the giant bank’s CEO. Citigroup was still paying the price for his philosophy years later. In order to prevent collapse, the bank had to accept government bailout funds, a portion of which was later converted into stock that gave the federal government an ownership position in Citigroup. Write-downs produced a gargantuan loss—\$27.7 billion—in 2008; while the bank’s 2009 loss of \$1.6 billion was a lot smaller, it stood in stark contrast to the big profits being earned by the likes of JPMorgan Chase and Goldman Sachs.

How and why did one of Wall Street’s premier institutions end up in such a pickle? The story of why Prince felt it necessary to keep dancing as long as the music played is one that has its roots back in the late 1960s and early 1970s, long before Citigroup existed or Wall Street had ever heard of collateralized debt obligations, credit default swaps, multibillion-dollar buyout funds, or any of the other instruments or players now often cited as culprits in the meltdown of the financial markets. The story of

Citigroup—both its rise and near collapse—hinges on the changes to Wall Street’s very structure. Without those transformations—some of them slow and almost imperceptible; others, like the collapse of the 1933 Glass-Steagall Act mandating a strict separation between investment and commercial banking, grabbing headlines worldwide—Wall Street could not have become as powerful a player in the U.S. economy as it did. Equally, it would not have endangered the entire money grid.

During the opening session of the hearings of the Financial Crisis Inquiry Commission (FCIC), Mike Mayo, a veteran banking analyst and now a managing director at Calyon Securities (USA) Inc., described Wall Street’s member firms as being “on the equivalent of steroids. Performance was enhanced by excessive loan growth, loan risk, securities yields, bank leverage and consumer leverage.... Side effects were ignored, and there was little short-term financial incentive to slow down the process despite longer-term risks.” But by the time the problems became so big that they began to nag at Mayo and many of his colleagues during the first decade of the new millennium, the trends that had led to those problems had been in place for decades. As I’ll explain, the changes to Wall Street forced its financial institutions to rely on the most innovative and most leveraged products it could devise, because those generated the greatest profits. Similarly, the needs of “insiders”—Wall Street players like hedge funds and buyout funds—came to dominate the Wall Street landscape. As long as dancing to the music produced the profits that firms like Citigroup and its investors craved, they would continue to jig, two-step, or even produce a creditable Highland fling, if necessary. The first section of this book is the story of how that ethos became central to the way Wall Street functioned.

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# From Utility to Casino: The Morphing of Wall Street

Alan “Ace” Greenberg’s firm may have collapsed underneath him, but even in the darkest days of 2008, the eighty-one-year-old investment banker’s legendary chutzpah was visible on Bloomberg’s business television network. “There’s no more Wall Street,” Greenberg, the former CEO of Bear Stearns, declared, adding that it had vanished “forever” in the rubble.<sup>1</sup>

It’s fashionable on Wall Street today to talk wistfully—or in a tone of reverential awe—about investment banking as it was practiced during what is now seen as a kind of golden era. Greenberg’s comments, though more hyperbolic than most, are one example.

The changes over the course of 2008 were so dramatic that Greenberg believed the Wall Street he helped forge no longer existed in any kind of recognizable fashion. Some nostalgic Wall Streeters view the investment banking landscape of the 1960s, ’70s, and early ’80s as a kind of utopia: investment banking as its purest, before the 1987 stock market crash, the collapse of the junk bond market, and Gordon Gekko made Wall Street seem slightly reckless and disreputable. To others, Greenberg among them, the golden era is the more recent past, when investment banks such as Bear Stearns saw their revenues and profits soar as they catered to the emerging powers on the Street, hedge funds and giant buyout funds, and watched their bonus payments and personal wealth climb even more rapidly.

The balance of power has certainly shifted on Wall Street, and new products, players, and technologies have transformed it. But Greenberg’s comments were directed at the collapse of specific

institutions: the shotgun wedding of his own firm with JPMorgan Chase, the bankruptcy filing of Lehman Brothers, and, the same weekend, the flight of Merrill Lynch into the arms of Bank of America. Greenberg most likely knew about the behind-the-scenes wheeling and dealing orchestrated by Ben Bernanke and Hank Paulson that involved every conceivable combination of every Wall Street firm with every one of its rivals (J.P. Morgan and Morgan Stanley? Goldman Sachs and Citigroup?). The desperate rush to save the financial system from utter collapse had resulted in the kind of merger negotiations—however short-lived—that would have seemed laughable only weeks earlier. To Greenberg, still reeling at the collapse of his own firm (which had, after all, survived even the 1929 market crash and the Great Depression), that must indeed have felt like the end of Wall Street.

Wall Street, however, is more than just a set of institutions with big brand names, however old and venerable. At its heart, it is a set of functions, and those functions remained intact even in the midst of the crisis. Two days before Greenberg delivered his epitaph for Wall Street, a small Santa Barbara company, RightScale, raised \$13 million in venture capital backing from a group of investors led by Silicon Valley's Benchmark Capital.<sup>2</sup> RightScale's secret? It was in the right business—cloud computing, a way for customers to reduce their IT development costs by using Internet-hosted services—at the right time. Despite the dramatic headlines focusing the world's attention on the plunge in the stock market and the deep freeze that hit the credit markets, parts of Wall Street's core business were still functioning, albeit in a more muted fashion. In the final three months of 2008, venture capital firms invested \$5.4 billion in 818 different deals, bringing the total for the year to \$28.3 billion. That was down a bit from 2007, when venture firms—partnerships that have made fortunes backing companies such as Amazon.com and Google and lost smaller amounts backing stinkers such as Pets.com—put \$30.9 billion to work. But it's still more than they invested in any year from 2002 through 2006.<sup>3</sup> By the first anniversary of the collapse of Lehman Brothers, even the high-risk world of junk bonds was back in business. The sign? Beazer Homes. one of the

worst-hit home-building companies in the entire industry, was battling not only the collapse in the real estate market but also a federal fraud investigation. Yet Wall Street found enough investors willing to close their eyes to those risks and invest \$250 million in junk bonds issued by the company to help replenish its coffers.<sup>4</sup>

## What Does Wall Street Do, and Why Does It Exist?

The reason for the Wall Street bailout—the explanation for Hank Paulson being desperate enough to literally drop to one knee in front of Nancy Pelosi in the White House and plead for her help passing the initial \$700 billion rescue package—is that Wall Street’s functions are essential to the economy. According to reports that were leaked to the media almost immediately, Paulson begged Pelosi not to “blow it up” (referring both to the bailout package and the financial system itself) by withdrawing the Democratic Party’s support for the rescue effort. “I didn’t know you were Catholic,” Pelosi quipped, referring to Paulson’s kneeling before her, in an effort to lighten the atmosphere before blaming the Republicans for the gridlock.<sup>5</sup>

By saving some of Wall Street’s institutions—those viewed as the strongest or the most important to the system—the architects of the bailout and many of the subsequent reform packages hoped to preserve intact the system that enables capital to flow more or less smoothly through the economy the way power flows through the electrical grid or water through a municipality’s water and sewer system. Regardless of what Main Street was thinking—and communicating to their members of Congress—Wall Street isn’t incidental to what happens in the rest of the economy. Without Wall Street to perform its financial grid functions, it would prove almost impossible to raise capital to repair bridges, finance new companies such as RightScale, and keep others—such as Beazer Homes—afloat.

What we tend to think of as Wall Street—the stock market, the investment banks, and the newer entities such as hedge funds—is

really only the visible tip of a much larger iceberg that is the entire financial system. Collectively, these institutions help ensure that capital continues to move throughout the rest of the “money grid.” Sometimes they do this by providing a market for participants to undertake basic buy or sell transactions; on other occasions, they negotiate or devise solutions to more complicated capital-related questions, such as helping a company go public or sell debt (a process known as underwriting) or working with it to establish and achieve the best price possible in a merger negotiation.

That intermediary function is alive and well, most visibly at the New York Stock Exchange, which occupies not only the epicenter of Wall Street at the corner of Broad and Wall Streets but the heart of its role as a financial utility. On its sprawling trading floor, traders go about their business in much the same way their earliest predecessors did in the naves of Amsterdam churches, executing the purchases of blocks of shares for their clients, who these days could include an individual trying to sell 100 shares of General Electric or Microsoft inherited from a grandparent or a mutual fund manager trying to reduce his holdings in Amazon.com in order to buy a stake in Alibaba.com, a Chinese counterpart. Exchanges trading stocks, futures, and options contracts as well as commodities remain one of the most heavily regulated parts of Wall Street because of the essential role they play in a large, geographically scattered, and diverse community.

Not convinced of the value of Wall Street’s functions and processes? Imagine you are a retiree in your seventies, living off your investment portfolio. The wisdom of your decision to invest in Microsoft in the mid-1980s has become clear; now you’re counting on being able to sell some of that stock at its current market value in order to cover your living expenses for the next six months. Wall Street’s processes make that relatively simple—all you have to do is place an order to sell the stock at the market price with your broker or custodian (say, Charles Schwab) and ask for the money to be transferred to your bank account when the trade is settled in three days’ time.

Now, imagine that there was no Wall Street. For starters, you’d

have a hard time establishing a fair price for that stake in Microsoft without the stock market, with its countless numbers of buyers and sellers meeting in cyberspace to decide each millisecond of the day what value they ascribe to Microsoft's shares and thus what price they are willing to pay for your stock. Even if you thought you knew what your shares were worth, how would you find a buyer and persuade her that your analysis is right? Would you go door-to-door in Miami or Los Angeles? Put up an ad on Craigslist? (In Vietnam's over-the-counter market, that is exactly what happens; you then arrange to meet the buyer on a street corner to swap the shares for cash.) And if you found a buyer, could you be certain that you would be paid in full and on time, so that you could pay your own mortgage and purchase your groceries?

Money has existed for millennia, ever since people recognized that barter was an inadequate method of exchange. The stock exchange, just a few centuries old, was the next logical step as society's financial needs became more complex. The first exchanges were established in wealthy trading cities such as Hamburg, Antwerp, and Amsterdam. Here, by the early sixteenth century, there was a significant concentration of wealth in the hands of merchants and noblemen, all of whom had an interest in putting it to work in new and different kinds of enterprises in the hope of diversifying and making still more money. These communities traditionally were also home to cutting-edge commercial enterprises, ranging from new technologies such as printing to global trading ventures to the East Indies.

Investors willing to back these enterprises—most of which could take years to pay off—needed a secondary market: a place where people who were interested in buying or selling shares in ventures could meet each other or find an intermediary to help them with that transaction. For a while, Amsterdam's church naves served that purpose, along with the open-air wharves on Warmoesstraat near the city's old church, or Oude Kerk. The first formal stock exchange in Amsterdam opened its doors in 1610; between noon and 2:00 p.m. each business day, members were expected to show up and buy and sell on behalf of the general public—in other words, to

provide liquidity to the secondary market.<sup>6</sup> By 1688, the Amsterdam exchange already looked a lot like the trading floor of the New York Stock Exchange in its twentieth-century heyday; seventeenth-century stock jobber Joseph de la Vega, in his dissertation on the financial markets of the time, entitled *Confusión de Confusiones*, famously described the scene as one in which “handshakes are followed by shouting, insults, impudence, pushing and shoving.” (Perhaps it was this atmosphere that led so many former professional football players to pursue second careers in the trading pits of the Chicago Board of Trade and the Chicago Mercantile Exchange.)

There probably has never been a time when people didn't complain about how the financial system worked—or failed to work. Nevertheless, the United States, as Alexander Hamilton, the country's first Treasury secretary, realized, would need a smoothly functioning financial system as part of its struggle to emerge as a viable nation-state.<sup>7</sup> Hamilton's initiatives included creating the country's first national or central bank, the First Bank of the United States, to replace myriad institutions within each of the thirteen original colonies, each of which had its own monetary policy and issued its own currency. Hamilton's goal was financial order and transparency, necessary if the new country was going to be able to repay its war debt and finance its growth by investing in new industries.

Wall Street, the narrow thoroughfare in lower Manhattan that owed its name to its former role as the northern border of the sixteenth-century Dutch colony of New Amsterdam, benefited from many of Hamilton's efforts to create the infrastructure of a national financial system and emerged as the heart of the new country's financial markets. It was here merchants chose to hang out on street corners to swap their ownership interests in government debt or the handful of start-up companies, such as canal construction ventures, that would form the core of the United States' new economy. (If you wanted to trade in the bonds newly issued by Alexander Hamilton's fledgling Treasury Department, you'd have to know which lamppost on Wall Street to stand under.) Eventually, the

introduction of New York state regulations banning curbside haggling as a “pernicious” practice drove these early Wall Streeters indoors. Some two dozen dealers gathered under a buttonwood tree to sign a pact that served as the foundation of the New York Stock Exchange. First housed informally in a Wall Street coffeehouse, the exchange moved to a room at 40 Wall Street in 1817, paying \$200 a month in rent, before relocating to the quarters it now occupies, just across Wall Street from Federal Hall. Today, the original Buttonwood Agreement, a tiny sheet of yellowing paper, is on display at the Museum of American Finance a few doors away at 48 Wall Street, the building that once housed the Bank of New York, also founded by Hamilton himself.

“You know, if Hamilton came back to life, I don’t think he’d be all that surprised at the way the financial system has evolved,” says Dick Sylla, the Henry Kaufman Professor of the History of Financial Institutions and Markets at New York University. A silver-haired, slightly built man, Sylla appears unruffled by the dramatic changes that have taken place on Wall Street, smiling wryly at a display at the museum featuring Citigroup’s now-reviled leaders—Robert Rubin, Sandy Weill, and Charles Prince. But then, for him as for Hamilton (about whom he is writing a book), America’s financial system was never about a single institution, however large. “It’s all about the functions that the various institutions perform, rather than what names they go by or where their headquarters happen to be,” Sylla explains. “Hamilton knew that there would be bubbles and periods of chaos. But if over the long run the system as a whole performs its function of allocating capital and allowing us as investors to diversify our portfolio, to not put all our eggs in one basket, it is doing what he wanted it to do.”

## The Nature of the Money Grid: The Intermediary

Wall Street, in its totality, involves more than what happens on the floor of the New York Stock Exchange or within the walls of any single investment banking institution. It has become a labyrinth of

many different groups and institutions, all of which have one thing in common: they make the whole money grid work more smoothly and more efficiently. Many of them work hundreds or thousands of miles away from Wall Street itself. In Tacoma, Washington, Russell Investments devises stock indexes widely used by mutual funds and other big investors; in Kansas City, a firm called TradeBot uses computer-generated models to exploit tiny differences in the price of different types of securities and trades—in only milliseconds—on that information, making markets more liquid; Chicago's options exchanges make it possible for investors to bet not on the direction of a stock's price but on the rate and magnitude of change in that stock price and the time frame in which the change will occur.

All of these players perform functions that link the “buy side,” those who have capital and want to invest it profitably, and the “sell side,” those entities in need of capital. “At its heart, when it is doing what it does best, Wall Street is a superb gatekeeper, making matches between investors and businesses, governments, or anyone else who needs to finance something,” explains Mike Heffernan\*, a former Morgan Stanley banker. The sell-side client could be a regional bank trying to resell portions of some of the loans it has made, a credit card company looking for an investment bank to package up its receivables into asset-backed securities for resale, a town in Indiana trying to find investors for the municipal bonds it must sell in order to finance new hospitals and schools, or a company trying to raise capital for expansion or to acquire a rival.

The sell side wants to get as much capital on the most favorable terms possible from the buy side—investors who range in size and importance from individuals to mutual fund conglomerates such as Fidelity, and include hedge funds, private equity funds, foundations, college endowments, pension funds, venture capital partnerships, and ultrawealthy individual investors such as Microsoft cofounder Paul Allen or financier George Soros. In a perfect world, the sell side would love free money—with no interest payable, no specific term for repayment, and no promises about increasing the value of the investment. It is the myriad institutions that collectively make up Wall Street that—in exchange for a fee—bring together the two



parties and negotiate a compromise: the terms on which the buy side is willing to invest some of its capital and the sell side is willing to agree to in order to get its hands on that capital. Banks have been fulfilling that kind of function in more limited ways for centuries: the Bank of Venice issued government bonds back in 1157 to finance its war with the Byzantine empire in Constantinople, and by 1347, as the Medicis rose to power in Florence, there were no fewer than eighty banks making loans and doing business in that city-state; a few years later, the Florentine authorities started a special credit fund that would give interest-free loans to distressed condottieri, or soldiers of fortune.<sup>8</sup>

But as the sums got larger and the members of interested parties on the buy side (investors) and sell side (individuals or entities in need of capital) expanded in size and number and their needs became more complex, the process of bringing them together got tougher, and Wall Street-like intermediary institutions arose to facilitate the procedure. If you were a former condottiere who had lost an arm fighting for Florence against its neighbor and rival city-state Pisa in the fourteenth century, you knew which bank to approach for your interest-free loan. But what about financing a decade-long voyage to Southeast Asia in hopes of finding the mysterious Spice Islands and returning with a king's ransom in the shape of black pepper, cinnamon, and nutmeg in the sixteenth century, or funding the development of the latest gene-based cancer therapies in the twenty-first century? Both require the right kind of buy-side backer. On its own, the sell-side entity (the merchant adventurer or biotech engineer) would squander weeks or months it could ill afford trying to raise the capital it needed. And it was only logical that these go-betweens—the investment banks and their predecessors, who made it their business to be familiar enough with all the deep-pocketed members of the buy side so as to quickly route the different investment opportunities to those they believed would have the most interest and the right risk appetite—should pocket a fee for that knowledge as well as for their skill in negotiating the terms of any investment.

Wall Street exists to help investors and those in need of capital

find their way through the financing maze. Investment bankers still not only link the two sides but also help them sort out what terms are fair for the kind of capital being sought. Wall Streeters weigh in on the relative merits of different kinds of capital as well, advising corporate chief financial officers when it will be cheaper in the long run to issue debt on which the company will have to pay interest periodically, or when it might be a better idea to sell a stake in itself to investors in a stock deal. If they opt to issue corporate bonds, what kind of debt do investors want to buy, and what interest rate will the buy side demand in exchange for capital? Without the processes that Wall Street collectively oversees, it's hard to see how that vital function in our economy would be filled. The U.S. Treasury could still issue bonds and sell them directly to citizens, and municipalities might be able to raise at least some of the money they need selling muni bonds to their own citizens. But the latter, at least, won't raise all the capital they could at the cheapest possible price without an intermediary to help them identify the maximum number of interested investors.

If we were still back in the early 1900s, the prospect of the collapse of the investment banking system wouldn't be quite as apocalyptic as it is today, at least as long as enough of the commercial banks remained in business. That's because well into the 1920s, corporate finance was largely a matter of bank loans—if you could persuade your local bank manager that your business idea was sound and that you were a good credit risk, then he would lend you what you needed to get going and perhaps introduce you to some other folks who would invest in the fledgling company.

The earliest backers of auto pioneers Henry Ford and William “Billy” Durant (who founded both General Motors and Chevrolet) were local businessmen willing to risk some of their own money on two of the ambitious pioneers trying to build and sell the new horseless carriages. Durant even orchestrated a bidding war between Flint and Jackson, two midsized Michigan towns, to decide which would become the corporate headquarters of Buick, the company that would later become General Motors. Flint won the battle (along with the future tax revenue and jobs for its citizens) when its

four banks and several carriage and wagon businesses, along with hundreds of other corporations and civic boosters, put up nearly \$1 million in cash in exchange for stock in the fledgling company, more than double what Jackson's citizens were able to offer.<sup>9</sup>

Financing these entrepreneurs was both risky and nerve-racking: two-thirds of the more than five hundred car companies launched between 1900 and 1908 had either collapsed or changed their business within a few years.<sup>10</sup> Once a bank or a backer had committed its capital to a specific venture, there were few exit strategies—the stock wasn't publicly traded. This early version of the money grid was unsophisticated and underdeveloped. Even Durant—far easier to work with than the mercurial Ford, and a former stock trader to boot—couldn't penetrate Wall Street's establishment and get the money grid working for the benefit of his company. Discussing the possibility of forming a trust made up of the biggest automakers to design and build a car for the mass market with J. P. Morgan's minions, Durant failed to persuade the great man himself of the virtues of the automobile. Much as he loved the idea of an oligopoly, Morgan seemed to love his horse-drawn carriage still more, dismissing automobiles as toys for the rickety younger generation and Durant as an “unstable visionary.”<sup>11</sup> Durant was no more enamored of Morgan. “If you think it is an easy matter to get money from New York capitalists to finance a motor car proposition in Michigan, you have another guess coming,” he wrote bitterly to his lawyer. Ultimately, Durant relied on local financing to get his new venture, General Motors, off the ground. Henry Ford managed to steer clear of Wall Street until the end of his life, relying on a steady flow of loans from banks such as Old Colony Trust Co.

Today's money grid is altogether a far more sophisticated and effective entity, having expanded geographically and evolved functionally. Wall Street is no longer a small clutch of giant investment banks, but includes a large and diverse network of venture capital funds whose specific function is to underwrite risky start-ups of the kind that Ford and Durant sought financing for a century ago and that a new generation of automotive industry

entrepreneurs are trying to launch today. “This is what we exist to do,” says Dick Kramlich of New Enterprise Associates, one of the venture industry’s veterans. “Until the postwar period, and even for a while after that, if you wanted to start something completely new, your personal network needed to include people who had money or who could vouch for you to the bank. Now all you need is a great business plan that you can get in front of one of us. We’ve become part of the bigger, broader Wall Street system.”

Indeed, during the Internet boom in the 1990s, Sand Hill Road, the long and winding thoroughfare that connects downtown Palo Alto, California, with the campus of Stanford University and other parts of Silicon Valley, became a kind of Wall Street west as the venture capital funds that set up shop there became more important to both the economy and the financial markets, financing start-up companies and generating big paydays for their own backers when some of those—eBay, Amazon.com, Netscape, and Google, to name a few—hit it big. Of course, just as many of the ships that sixteenth-century merchants financed in their voyages to the Spice Islands of Indonesia ended up dashed to pieces against the rocks on the coast of Africa, so many of the start-ups that today’s venture capitalists back never live up to expectations or go belly-up. But the winners have been frequent enough that venture capital investors willing to wait five, six, or even ten years for their bet to pay off in their little corner of Wall Street can make just as much money as top-flight investment bankers or superstar hedge fund managers in theirs.

At the height of the dot-com boom in 1999, commercial real estate on Sand Hill Road was more expensive to rent than anywhere else in the world (including Manhattan and London’s West End), reflecting the triple-digit returns some venture funds were earning. That bubble popped in 2000, making office space in Silicon Valley affordable again. But the venture capital community continues to scour the landscape for the next “new new thing,” whether that is the social networking “industry” or green technology, with businesses built around environmentally friendly twists on the pioneering products of a century ago, such as new

kinds of batteries, power generation technologies, and—yes, you guessed it—new kinds of automobiles. Detroit's executives might have had to grovel for a share of bailout funds after their financial prospects became so bleak that Wall Street east couldn't do anything to help. But on Wall Street west, some of Sand Hill Road's venture investors were eagerly backing companies such as Tesla Motors, founded by Elon Musk, the millionaire creator of the electronic payments system PayPal.

"A few years ago, this was the lunatic fringe of the venture capital industry," explains Ira Ehrenpreis, a general partner at Technology Partners, one of Tesla's financial backers. Today, he estimates, as much as \$17 of every \$100 that venture funds collectively invest goes into clean-technology companies as a category, while half of all the capital Technology Partners raises is allocated to the industry. Ehrenpreis waxes rhapsodic about Tesla's first car, the \$109,000 Roadster, of which 1,200 were on order by the end of 2008; 937 had been sold by December 2009. "It makes a Prius look like a gas-guzzling hog and drives like a Ferrari!" he exults. A couple dozen of the brightly colored sports cars, which can travel 236 miles on a single charge, can sometimes be spotted whizzing silently along Silicon Valley's highways and streets, Musk's among them. The Roadster, says Ehrenpreis, shattered the belief that going green meant abandoning style; the next step is to roll out a more affordable Tesla sedan by 2011, and to raise capital for that through an initial public offering (IPO) of stock in the company, completed in June 2010.

Kleiner Perkins Caufield & Byers is one of Silicon Valley's most venerable venture firms; it has invested in most of the technology industry's landmark deals, now runs a \$100 million "iFund" jointly with Apple in addition to its other portfolios, and has the same status in the venture capital universe that Goldman Sachs does on Wall Street east. But despite the motto on its website—"In Search of the Next Big Idea"—the firm passed up the chance to invest in Tesla. "All-electric cars probably aren't practical for a long time," argues Ray Lane, a partner at Kleiner Perkins and former president of Oracle Corp., the world's second-largest software company.

But Lane's resistance to the idea of investing in a next-generation kind of auto company didn't last long. Kleiner Perkins is now backing a more hybrid, less purist company, Fisker Automotive, launched by a designer who briefly worked for Tesla. "The Fisker cars are what I call a 'no-compromise' vehicle—beautiful and with a price point as well as features that will compare to a BMW," boasts Lane, who has a gray Fisker prototype in his garage at home that can run for fifty miles per battery charge. "To back these electric vehicle companies, you have to be as entrepreneurial within the venture world as the entrepreneur is within the corporate world—in other words, very, very willing to embrace risk." But, he quickly adds, Fisker was ready to build some seven thousand electric vehicles in 2010. "GM can't seem to produce one."

By being able to reconceive its role to include venture capital, Wall Street has proven itself, in the long run, more entrepreneurial than the Detroit-based automakers. It's not just venture capitalists that have spotted the potential of this new breed of automaker, however. Even with only a few dozen vehicles on the road, the fledgling green technology banking teams from Goldman Sachs, Morgan Stanley, Credit Suisse, and others were already making the trek to San Jose to check out Tesla and its rivals. So what if they are still guzzling capital faster than an SUV or Hummer can guzzle gasoline? Wall Street today doesn't need to be persuaded that it needs to be present from the very beginning if it is to capture all the business—and profits—it can. Sure enough, early in 2010, Tesla Motors filed to go public, with Goldman Sachs selected to lead four blue-chip underwriters; although the company had yet to generate a profit, it raised \$266 million. As of July 2011, the stock hovered near \$28 a share, a level the stock hit briefly on its first trading day.

## How the Financing Life Cycle Works

There may be no better example of Wall Street's *raison d'être* than the role that venture capital—itsself part of the money grid—plays in making entrepreneurial dreams a reality.

The same week that Lehman Brothers collapsed, the major figures of the venture capital community assembled at Microsoft's campus in Mountain View, California, a stone's throw from Sand Hill Road for the National Venture Capital Association's thirty-fifth anniversary. They listened to presentations by three carefully selected venture-backed companies: Tengion, a firm developing biotechnology to build new human organs from cells; Digital Signal Corp., which is honing 3-D facial recognition software that can be installed anywhere from airports to shopping malls; and Tesla Motors. Formalities over, the crowd escaped to the reception room to quaff Napa Valley wines and buzz excitedly about the meltdown under way on Wall Street east. One of the most visible of those present was former star technology banker Frank Quattrone, who had spent the 1990s steering one promising technology company after another through the financing process, from the first capital infusions to the initial public offering (collecting hefty fees for his firms, which included Morgan Stanley and Credit Suisse, along the way). He became the banker most closely associated with the dot-com boom, but years after it burst, he was back helping start-up technology companies raise capital.

That evening he was talking up his new quasi-banking venture Qatalyst, and debating the impact the turmoil on Wall Street proper would have on start-up businesses in Silicon Valley and his own firm's prospects. "He was very interested, feeling that this might pave the way for a revival of the old West Coast boutique investment bank, like the Four Horsemen," said one venture investor who was on the receiving end of his pitch that evening.

The Four Horsemen were four small to midsized investment banks—Hambrecht & Quist, Montgomery Securities, Robertson Stephens, and Alex. Brown—that individually and collectively carved out both a niche and a reputation for themselves as the go-to guys for entrepreneurs in need of finance, venture capitalists hoping to take their portfolio companies to the next level, and investors hoping to get in on the ground floor of the next great business idea. "We didn't go into this wanting to be Goldman Sachs; we knew we'd end up as a marginal player trying to compete with them on

ground that they owned, and that would be dangerous,” recalls Bill Hambrecht, who founded the firm that bore his name and who now runs another boutique, W. R. Hambrecht & Co. “More than many of those larger East Coast firms, our model was very straightforward—we were there to help those companies move up the ladder to the next stage in their financial life cycle.”

In 1981, the rest of the investment banking universe woke up to what was happening on the West Coast. “In a sixty-day period, we underwrote [the initial public offerings of stock in] Genentech, People’s Express, and Apple,” recalls Hambrecht. “I think we had sixty people in the firm; we made about \$50 million that year and it changed everything.” Hambrecht had attended college with the late Dick Fisher, then chairman of Morgan Stanley, who recognized what was brewing before the rest of the big Wall Street institutions. “He called me, then came to visit me, and told me, ‘Okay, I want in on this business.’ I asked him what companies interested him, and he mentioned Apple and a few others—he and his team had done their work and identified the best companies, not the biggest ones.” Hambrecht & Quist would go on to co-manage multiple deals with Morgan Stanley, the two firms helping each other earn hundreds of millions of dollars more in fees apiece before Fisher retired and Hambrecht & Quist’s partners decided to sell their firm to Chase Manhattan in 1999, at the peak of the dot-com market.

The names of the institutions that help Silicon Valley’s most promising companies move from one stage of development to the next by providing capital directly or introducing the company to potential backers are likely to continue to change, but the process itself remains intact. The earlier it is in a company’s life cycle, the more informal that process, as was the case with Google, now a corporate behemoth. One of the company’s earliest supporters was David Cheriton, a Stanford professor who knew its founders, Sergey Brin and Larry Page. Cheriton also knew Andreas “Andy” Bechtolsheim, the cofounder of Sun Microsystems, and introduced him to the two would-be entrepreneurs at a gathering at his Palo Alto home. Bechtolsheim wrote Brin and Page a check for \$100,000 on the spot even though the company hadn’t yet been formed. He



followed that with another \$100,000 when the first formal venture financing round occurred the next month.<sup>12</sup> (One firm that passed on Google was Bessemer Venture Partners; offered the chance to meet the “Google guys,” tinkering in the garage of a friend’s home, David Cowan asked if there was a way out of the house that would enable him to bypass the garage.)

In the space of those few weeks, the Google guys had rounded up another \$760,000 in start-up funding after Bechtolsheim introduced them to John Doerr, one of Sun’s earliest investors and at the time the lead investor at Kleiner Perkins. Where Doerr went, others eagerly followed: the imprimatur of Kleiner Perkins was as valuable as that of Good Housekeeping or Goldman Sachs. Doerr roped in Jeff Bezos (he had also provided start-up funding for Bezos’s Amazon.com), who in turn brought along Amazon colleague Ram Shriram; all invested in the fledgling company long before it was clear that Google was going to become, well, Google. At the time, it was just another speculative “angel” investment, one of scores that each of these individuals undertook between 1998 and 2000. But by the time the IPO had been sold and Google’s stock was trading on the public market, Bechtolsheim’s \$200,000 was worth \$300 million or so.

A typical venture firm, such as Kleiner Perkins, raises and provides capital at the earliest stages of the financing life cycle. That capital comes from other buy-side players, such as college endowments, pension funds, and very wealthy individuals whom the general partners know and trust, often successful entrepreneurs such as Bechtolsheim and Bezos. Venture funds make most of their money from their share of the profits of their funds (usually 20 percent) but also collect a fee from their investor base in exchange for their services bringing together those investors with bleeding-edge investment ideas at their earliest (and most potentially profitable) stage of development. Without venture funds and their vast networks, how would Verizon’s pension fund know that two bright young Stanford students were about to put together a company that within a decade would dominate the technology landscape? And how would Brin and Page have navigated the Wall

Street labyrinth in search of financing at such an early stage, while still working out of a friend's garage?

The next stage in the financing life cycle for venture-backed companies such as Google is a process that will allow those early backers to realize the value of their investment. People such as Doerr and Bechtolsheim, like everyone else on the buy side, don't want to keep their capital tied up in the same companies indefinitely; at some stage they want it back, along with a healthy return, in order to put it to work somewhere else and repeat the process. In other words, they want liquidity, just as any of those sixteenth-century merchants wanted to be able to sell part of his stake in the East Indian trading vessel long before it returned home with its hold stuffed with nutmeg, cinnamon, and silks so that he could provide his daughters with dowries.

By the time Google was ready to go public in the spring of 2004, its team didn't need any help from Bechtolsheim or Doerr in finding an investment bank willing to serve as an intermediary between Google and its future stockholders. Every investment bank in the United States, as well as an array of foreign competitors, wanted a piece of the action. Unlike all the dot-coms that had crashed and burned just months earlier, this technology company could point to real revenues, not just an ambitious business plan. It was a jewel, and every bonus-starved banker wanted a place on the list of underwriters—preferably as lead underwriter or, even better, the book runner, the guy in charge of deciding which equally excited mutual fund managers, brokers, and individual investors would win a few Google shares at the IPO price and who would get to pocket the bulk of the underwriting fee in compensation for all the aggravation. This would be a multibillion-dollar offering, and in a typical IPO, the underwriters collectively could pocket as much as 7 percent of the proceeds as their fee.

Every banking team in the world began to chase the deal, and they all took it very seriously indeed. Morgan Stanley opened up a Silicon Valley war room, complete with a team of top bankers and analysts preparing pitch books and rehearsing answers to questions they expected to get from Lise Buer. Then Google's chief financial

officer, and the other Google execs who would select the winners. “It was just like a presidential election campaign,” recalls Hambrecht. Two weeks before the “bake-off” was scheduled to take place at the Palo Alto offices of Google’s law firm, Wilson, Sonsini, Goodrich, & Rosati, pitting the finalists against each other, Morgan Stanley’s team hired the key analyst that Hambrecht had assigned to prepare his own firm’s pitch for the deal. “They wanted to find out what we were doing,” Hambrecht says, shrugging. “All’s fair in love and war.”

And this was war, make no mistake about it. On a Saturday afternoon in early April, the finalists were scheduled to appear, one at a time, to make the final pitch to Google executives and board members, each explaining (with the aid of thick pitch books stuffed full of charts, diagrams, and other propaganda) why they were the only guys for the job. The Google folks knew what they were in for. Buyer had helped prepare pitch books herself in a previous life as a top technology analyst. Aware of the other tricks that Wall Streeters liked to play, she instructed the top bankers to stay home, decreeing that only the middle-ranking people who would actually do the grunt work on the deal should show up. (Few abided by that rule.) She also told them to be creative. “We wanted to be sure we’d be working with bankers who got our corporate culture, so I guess we kind of opened the door to a lot of the silliness that followed,” she said.

One banking team brought beer, apparently assuming that a freewheeling culture was synonymous with the liberal consumption of alcohol. Another tried to design a PowerPoint pitch incorporating Google’s own search engine, which would spit out the firm’s name when asked, “What is the best bank to underwrite Google’s IPO?” (The technical challenge proved impossible, and the banking team resorted to a paper version of the same pitch.) Citigroup’s technology bankers designed laminated place mats that spelled out the bank’s achievements and creative strategies for marketing Google to the public, using Google-like design elements and layout. The place mats probably came in useful for the *pièce de résistance*. The banking team from Goldman Sachs. taking to

heart Buyer's quip that, "given that we're all here on a Saturday afternoon, you can damn well bring me dessert," and learning through their own research that Brin and Page loved chocolate, ordered up a big chocolate cake, emblazoned with the Google logo, to bring to the pitch meeting. Stunts like that have been known to work, as Lisa Carnoy, who is now global capital markets co-head at Bank of America, knows from her days co-managing the same group at Merrill Lynch & Co. Pulling together a pitch book for the investment bank's presentation to Lululemon, a yoga clothing retailer seeking to go public, Carnoy included details of the favorite yoga positions of each member of the banking team in hopes of showing just how much the bankers understood their potential client's business. "They got a kick out of that and we got the deal," she recalled.

Winning an IPO is one matter; completing it to the satisfaction of all parties is something else altogether. However crucial the role played by Wall Street in bringing together and reconciling the competing interests of the buy side and the sell side, there is usually one group that feels it has given up too much in the process. A typical IPO investor, for instance, wants the largest allocation possible of a hot new issue. Many of those investors are also investment bank clients; they execute buy and sell orders and generate trading fees for Wall Street institutions year-round and aren't shy about telling the investment banks what they expect them to deliver in return. Fidelity, back in the days when it routed more than half of its immense trading activity through Wall Street trading desks, routinely threatened to "cut the wire" and trade with a particular investment bank's rivals if it didn't get an allocation twice that of its nearest competitor for an enticing IPO. The investment bank usually obliged.<sup>13</sup>

To make the buy side happy, the new stock should be priced at a level that will allow it to rise in value—preferably by 20 percent or more—in the days immediately following the IPO. That gives any mutual fund manager the chance to sell some of his shares at a quick profit—and can mean a big boost in trading revenues for the investment bank as trading volume in the newly public stock shoots

higher. When Netscape went public in 1995 at \$28 a share, it posted its first trade at \$71. Those watching the electronic screens were convinced it was a typographical error or that they were hallucinating. An entrepreneur watching that kind of drama, however, is well aware that he may have just lost millions of dollars of new capital for his company and is left wondering whether Wall Street has just ripped him off. “Everyone was angry about that, and very vocal about” what they viewed as giving up that much in potential proceeds, says Buyer.

Google tried to ensure that it would capture as much of the proceeds as possible for itself and its backers. In fact, while the deal itself turned out to be messier and less profitable than anyone had hoped, it did at least leave all three parties—the buy side, the investment bankers, and the company itself—feeling equally dissatisfied. Morgan Stanley and Credit Suisse were told they had won the coveted co-lead-underwriting spots but that they would have to use Hambrecht’s new method of capital matchmaking, a kind of auction that forces would-be buyers to bid against each other for the stock, disclosing the maximum price they will pay. That approach was anathema to both bankers and the buy side: it not only involves a much smaller fee for the underwriters (about 2 percent of the proceeds rather than the traditional 6 percent or 7 percent) but also in theory eliminates the possibility of a first-day pop in the price of the newly public company of the kind that investors cherish but that issuers such as Google had learned to loathe. Hambrecht’s new firm, W. R. Hambrecht & Co., which had devised the auction methodology, won a co-manager slot due solely to Brin and Page’s fascination with the auction idea rather than his four-page stapled pitch, which Buyer rated the worst she’d ever seen.

For their part, potential buyers were disgruntled at being asked to relinquish their traditional instant profit. Hambrecht remained unfazed. The auction process, he says, “means that Wall Street is really fulfilling its role as the intermediary because the proceeds are going to the company, not as instant, nearly risk-free returns to the bankers or investors who’ve owned the stock less than seventy-two

hours.” The rock-bottom fee took a toll on the process, banking analysts would later argue. Merrill Lynch walked away from the underwriting syndicate outright, unwilling to do all the work for what it saw as a skimpy return. The remaining underwriters later confessed to being reluctant to battle as ferociously as they might have done to combat buyer apathy, given the low fees. Buyers lowballed the deal, responding to the process and the deteriorating climate for technology stocks. Google had to settle for a price of \$85 a share, instead of the \$135 it had hoped to make from the deal.

## The Troubled Heart of Wall Street

The process of underwriting an IPO or raising other kinds of capital for companies such as Google and providing exit strategies for their venture backers remains one of the core “utility” functions of Wall Street’s big investment banks. “It’s really not all that different today from the way it was back in the 1960s, when I wrote my first-ever case study about the IPO process,” says Samuel Hayes, professor emeritus at Harvard Business School. Only the names of the issuers and the underwriters are different, while the dollar amounts are larger. But as the Google transaction illustrates, the relationships between Wall Street institutions and the two groups on either end of the capital exchange transaction that develop when a company goes public or otherwise raises new debt or equity capital aren’t always smooth and straightforward. On the sell side, corporate clients such as Google don’t always feel that their investment bankers are looking out for their best interests. Meanwhile, parts of the buy side—the investors—are just as skeptical.

The first part of the problem—the increasingly bumpy relationship between the investment bank and its corporate clients—Hayes attributes to changes on Wall Street itself. The mergers that have taken place over the last twenty years—all of the Four Horsemen were absorbed by national institutions, most of which in turn became part of still more massive financial behemoths—mean

that doing the kind of smaller deal that is characteristic of what most companies need in the earliest days of their existence isn't cost-effective. Venture capital investors are well aware of this trend, and it worries them. "Unless I have another potential Google, these guys don't want to know," says one Silicon Valley venture capitalist bitterly. "They want the sure thing, the big deal that is going to be able to make a visible difference to their own profits at the end of the quarter. They are more interested in that than in building relationships with corporate clients that might generate a stream of fees over the years. They have betrayed our trust." He points to Goldman Sachs, which shuttered its Sand Hill Road outpost (in a building it had shared with archrival Morgan Stanley) a few years after the tech bubble burst. "They'll fly people in for things they consider important, but there aren't as many people competing to serve this space, which means that all the companies that we are starting to fund today are going to have a much harder time in the later stages of their corporate lives when it comes to getting financing."

This venture investor predicts that a greater number of venture-backed companies will wither on the vine, unable to get financing simply because of their size relative to that of the investment banks. That, he argues, may not augur well for the future of both entrepreneurial energy and Wall Street. Will some prospective entrepreneurs be deterred or some promising companies derailed? And what happens if Wall Street turns its back on its core function of helping promising businesses realize that promise by accessing capital? "We play our role; we want Wall Street to play theirs."

For now, at least, the venture industry is keeping its part of the tacit bargain and continuing to invest billions of dollars a year in start-up companies. Despite the market chaos, venture funds still want to back the companies that they believe have the potential to become next-generation versions of Genentech, Google, or Amazon. These days those companies will range from start-ups offering innovative ideas on managing power grids more efficiently to businesses based on new medical devices. But by 2009, the signals were becoming more mixed. Wall Street's recent aversion to doing

what it saw as small-scale underwriting deals had remained, and had been exacerbated by the general chaos as banks focused on their own internal restructuring. That forced some venture companies to direct as much as 40 percent of their investment funds in 2009 toward existing, relatively mature companies still languishing in their portfolios and unable to find an exit.<sup>14</sup> In a normal year, says Jim Feuille, a general partner at Crosslink Capital, his venture capital firm invests in eight or nine new businesses. By late October 2009, they had selected only three new companies in which to invest, in order to preserve enough capital to be able to continue supporting those older businesses. The National Venture Capital Association reported that the same trend was being seen across the industry: by the third quarter of 2009 only 13 percent of all venture capital investment dollars were directed to first-time companies, the lowest percentage on record. While a surge in IPOs in the first half of 2011 revived confidence somewhat, some still fret about Wall Street's willingness to stick around in bumpier times.

This kind of breakdown in the relationship between Wall Street, as represented by investment bankers, and its corporate clients isn't confined to Silicon Valley—nor, as I'll explain later in the book, is the breakdown restricted to one part of the money grid. The relationship between Wall Street and its partners on both the buy and sell sides has been under threat for more than a decade, as Wall Street drifted further and further away from its core utility function and those clients generated a decreasing proportion of its revenues and profits.

### From Gatekeeper to Casino Croupier?

Harvard Business School's Sam Hayes studied the breakdown in the relationship between Wall Street and its corporate clients in real time and knows whereof he speaks. He holds the Jacob H. Schiff Chair in Investment Banking as a professor emeritus and has studied Wall Street from the perspective of a scholar (he has published



seven books and countless research papers and other articles about various aspects of Wall Street), a consultant (to the Justice Department, the Treasury Department, and the Securities and Exchange Commission, as well as many businesses), and even a participant (he chairs the investment committee at his alma mater and is a former chairman of the Eaton Vance family of mutual funds, making him a member of the buy side, while his role as a member of the advisory board of brokerage firm Edward Jones puts him on the sell side). When in 1970 he began scrutinizing the way Wall Street worked, it was performing its intermediary function adeptly; the relationships with clients, he says, were true long-term ties of importance to both parties. When a CEO wanted to sell bonds, raise new capital through a stock issue, or mull over other strategic issues, he'd pick up the phone and call his banker. That banker would be the same person, or at least someone at the same firm, year after year.

But Hayes soon began to detect signs that those relationships were crumbling, as they came under siege from both sides throughout the 1970s. A new breed of CEOs and chief financial officers with MBA degrees felt better equipped to pit one Wall Street firm against another in search of a way to cut financing costs. Wall Street firms were quite eager to poach their rivals' investment banking clients, adding fuel to the fire. To both groups, this breakdown seemed logical and even beneficial—why shouldn't corporations shop around for the best deal and investment banks compete to offer that deal? By 1978, Institutional Investor magazine had stopped publishing the annual "Who's with Whom" list documenting which firms "banked" which corporate clients. "Clients didn't like being labeled as 'belonging' to Kuhn Loeb," Hayes recalls.

The turning point came a year later when IBM wanted to add Salomon Brothers as a co-lead underwriter to a bond sale it was planning. When the company informed its traditional bankers at Morgan Stanley of its wish to include Salomon because of the latter's growing importance in the bond markets, Morgan Stanley refused to share the spotlight. (At the time, Morgan Stanley, in an

attempt to emphasize how exclusive it was in the clients it accepted, even insisted on using a special typeface in the newspaper “tombstone” ads announcing deals it had done.) Instead of backing away from the idea, as Morgan bankers had expected, IBM awarded the whole deal to Salomon Brothers, shutting out Morgan Stanley altogether. It wasn’t until 1984, when Morgan Stanley agreed to share the lead underwriting role for Apple with Hambrecht & Quist, that the blue-chip New York firm conceded that it would have to relinquish part of the limelight on occasion in order to participate at all in the deals it wanted to do.

If IBM’s decision to put its foot down was the turning point in the relationship between Wall Street and the sell side, the tipping point in ties between the Street and its buy-side clients came in 1995, when Netscape went public with the assistance of several leading investment banks. The transaction certainly was part of Wall Street’s core function—the underwriters were raising money for a corporate client—but the company in question had a far riskier and less established business model than those that bankers were accustomed to introducing to the buy side. With Netscape, says Lou Gelman\*, a former Morgan Stanley banker involved in the IPO, Wall Street was asking its buy-side clients to adopt a completely different approach to investing. Netscape wasn’t earning a profit, and its business model was untested, relying on the then-new phenomenon of the Internet. “Until Netscape came along, Wall Street used to say a company had to have two years of operating profits in order to go public,” Gelman says. But Morgan Stanley badly wanted a piece of what promised to be a very hot IPO. “Suddenly our top guys were tossing their own rules out the window in order to get this business.”

Above all, the Netscape IPO opened the door to speculation as an investment strategy. It was now in Wall Street’s financial interest to encourage its buy-side clients to toss away their concerns about investing in a relatively risky business. “We went from being a gatekeeper to [being] a croupier,” says Gelman. Until that time, he argues, Wall Street had served its buy-side clients by helping them preserve and protect their wealth. Now the ethos seemed to have

changed; Wall Street was becoming a casino, a place where people could create wealth rapidly by speculating. “It was with the Netscape IPO that the conviction we have today—that it’s actually possible to get rich in a day by owning the right stock—took root,” Gelman says. “It’s corrupting.”

Not only that, but for several years it was also exciting and dramatic; that drama would help swell Wall Street’s own coffers as hundreds of Internet companies followed Netscape’s lead and paid their 7 percent underwriting fee to go public. It all followed the success of the Netscape underwriting team, which, after overseeing the production of an IPO prospectus containing twenty-plus pages of risk factors, took the fledgling Internet company’s management team on the road to drum up buying interest. The target stock price crept slowly higher, to \$12 per share and onward, as public awareness grew during that “road show.” The battle to acquire stock in the deal ended up bringing Wall Street and Silicon Valley to Main Street’s attention; both captured the imagination of ordinary investors who until then had never had a brokerage account. One caller to Netscape’s headquarters asked what the IPO signified. “Essentially that means our company will be trading a certain number of shares on the stock market, which will raise capital so we can expand our business,” the operator informed him. “What’s the stock market?” the caller inquired. Another caller had heard people talking about the deal in the grocery store and wanted more information. A third threatened to report Netscape to the San Jose police for “insider trading” when he wasn’t allotted shares at the IPO price of \$28 apiece. It’s not surprising he was unhappy: the stock soared as high as \$75 in its first trading day, before closing at \$58 a share.

The external exuberance wasn’t always matched inside Morgan Stanley itself, even after the deal turned into a runaway success story. “Some of us pushed back, but the argument came down to the reputation of our franchise against the potential revenue,” says Gelman today. “Were we going to be the firm that doesn’t do early-stage IPOs, when this is what the public wants to buy? No one, it turned out, was willing to walk away and leave that to our rivals.”

By the time the dot-com bubble was fully inflated, Gelman was convinced that the capital-raising process had undergone a fundamental change. “We weren’t there to provide companies with the best long-term sources of capital to grow with; we were doing this to help our investor clients get richer faster.” In his view, Wall Street had abandoned both of its core constituencies in pursuit of its own self-interest.

That approach gained momentum as the years passed, and extended into a variety of products, including higher-risk corporate bonds and collateralized debt obligations (CDOs), the bundles of mortgages (including those issued to subprime borrowers) that had been repackaged in the form of marketable securities. Caveat emptor, Wall Street declared—buyer beware. “Eighteen or twenty years ago, when someone [on Wall Street] showed us a bad product, we went crazy; we’d tell them, ‘Don’t ever show us that again,’ ” recalls Scott Amero, a portfolio manager at BlackRock, a major buy-side asset management firm. “At first we took the time to explain why something was a bad product, why it was risky or poorly designed.” But eventually Amero found it impossible to provide that kind of detailed feedback: either the relationships weren’t strong enough to permit it or the banker wasn’t in a position to do anything about BlackRock’s concerns, especially since there were other willing buyers. All Amero could do was go on a buyer’s strike. In 2009, Larry Fink, one of BlackRock’s founders and its chairman and CEO, gave voice to his fury with Wall Street for abandoning its traditional role as gatekeeper that took care to funnel only valid and viable products to the buy side. In the past, Fink told the Financial Times, firms such as BlackRock “relied on Wall Street to be the safety guards to the capital markets,” winnowing out the poor-quality deals. Now, he added angrily, it seemed as if it was up to his firm and other buy-side institutions to protect the integrity of the parts of the market.<sup>15</sup>

The Core Function Becomes a Sideshow

The IPO market may be one of the best examples of Wall Street's core function at work, funneling capital from those who have it to those who need it. But Wall Street saw underwriting IPOs as less and less attractive with each year that passed. Most transactions were far smaller than either Netscape or Google, and the amount of work the investment bank had to do in order to drum up investor interest in a previously unknown company could be time-consuming. When that company planned to raise only \$15 million or so, the fees were small. But being willing to work on an IPO was what a bank had to do in an era where relationships alone were not enough to win business. Some, such as Morgan Stanley's Dick Fisher, realized that technology companies weren't going to generate a lot of banking fees in the future. They didn't need much new equity after an IPO, typically, and almost never raised debt capital, since they didn't have the kind of fixed assets that bond buyers like to see. Unless the company decided to make acquisitions, the IPO fee might be the only banking revenue the underwriter ever earned. "Fisher told me he knew [companies such as Adobe and Apple] weren't going to be good investment banking clients," says Hambrecht. "He was right; Adobe had a \$10 million IPO and then never raised another dime on Wall Street."

But Fisher's ultimate goal was to capture a different kind of business and a more secure stream of fee income for Morgan Stanley: he wanted to woo the newly wealthy executives as clients for Morgan Stanley's private banking team. "Sure enough, Morgan Stanley ended up managing about 90 percent of the wealth created in the Apple IPO, while Goldman Sachs did the same for their Microsoft millionaires," says Hambrecht. And when the \$4.4 billion initial public offering of stock in UPS closed in November 1996, Morgan Stanley saw its \$50.5 million share of the \$191.5 million in fees paid by "Big Brown" to the thirty-five-member Wall Street underwriting syndicate as just the tip of the iceberg.<sup>16</sup> That evening, when UPS's top brass sat down to celebrate the first day of trading in their new stock (and its 30 percent pop in value), they were sharing their prime rib not only with the bankers who had sold the stock but also with the Morgan Stanley wealth managers summoned

to woo them as clients for that side of the company's business. Yes, Wall Street was changing.

Some of those who felt as if the new Wall Street was leaving them behind as it drifted further away from its core function came from within the ranks of Wall Street itself. While one group of Wall Street bankers focused on helping companies raise new capital, another specialized in advising corporate clients on making a different kind of match: negotiating a merger with or acquisition of another business. Fees on these transactions may be a smaller percentage (from 1 percent to 3 percent) of the value of the deal, depending on the complexity and the players—but the deal sizes can be large. And a satisfied client can earn a banking team a series of fees year after year, as a business grows through acquisitions. JDS Uniphase, an optical networking company, forked over \$30 billion in stock for big-ticket acquisitions in just a few years, each of which generated hefty deal fees—mostly in cash—for the matchmakers who helped orchestrate them.<sup>17</sup>

At any rate, this part of Wall Street tended to see itself as an elite group. Other members of their firms underwrote stock and bond offerings, handled sales and trading, or devised structured products such as CDOs and might generate high fees when their part of the business enjoyed its moment in the sun. But the mergers and acquisitions (M&A) advisory business, in their eyes, was the heart of what Wall Street was really about. “In my mind, the really sharp minds on Wall Street are not doing IPOs or debt financings; they’re doing strategic stuff like M&A advisory work,” says Mike Donnelly\* bluntly. Donnelly, who lost his own job in the wake of the collapse of his firm, hasn’t lost his awe for those he considers to be Wall Street artists. “Someone who is really great at this has a knowledge of the business, the industry and the company and the strategic issues that lie ahead. He has the technical knowledge, he knows the latest twists and turns in accounting rules and the law. He has experience and is never taken by surprise because he knows the kind of odd things that can happen,” explains Donnelly. “And they can present everything to a board in a lucid and compelling way. I suppose they’re a bit like a Pied Piper: people who hear them will

end up following them anywhere. It's incredibly hard to find someone like that, and that's why they are so valuable."

Robert Greenhill, Morgan Stanley's president and Fisher's heir apparent back in 1992, has always been that kind of banker. Flying his own Cessna from one client meeting to the next, he and his team had propelled the firm to the coveted top spot in the league table rankings. (These widely scrutinized lists, published quarterly by data groups such as Dealogic LLC and Thomson Reuters, told the world which investment bank had underwritten the most deals in any specific area imaginable; the battle for league table credit and the bragging rights that went along with a top-three finish was fierce and remains so today.) Alas, merger volumes were down overall that year, and John Mack—whose own background was in sales and trading, the heart of the underwriting function—ended up elbowing Greenhill out of his way. Deposed as president in early 1993, Greenhill resigned shortly after, first joining Sandy Weill as the latter began to construct the behemoth that would become Citigroup and later founding his own boutique advisory firm. He left behind him what became known as the "Greenhill gap"—there was no one who was his equal as a rainmaker for the firm.<sup>18</sup>

To Gelman, the former Morgan Stanley banker, Greenhill's departure symbolized the final transition of power from the long-term strategic thinking characteristic of an M&A advisor to the emphasis on speculation and short-term profit maximization symbolized by the rising power of the trading desks and their chiefs within the power structure of many investment banks. "By the time Netscape came along, serving investors who were speculating and trading like crazy—and trading for our own account—had become what it was all about," he says. "Even in the IPO business, what had been a craft became an assembly line."

But by then, there was no way for Wall Street's investment banks to become purists, even when it came to fulfilling their gatekeeper role. Too much had changed in the world around them, and their responses to those changes had produced a series of unanticipated consequences. Long before the Netscape IPO was a gleam in the eye of the company's venture capital backers, it had become clear to

investment bank CEOs that relying on the basic gatekeeping functions of yore was never going to generate enough profit to keep their ever-expanding empires afloat.



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## CHAPTER 2

### Building Better—and More Profitable—Mousetraps

Long before the dawn of the twenty-first century, it was clear to Wall Street's leading investment banks that while being a superstar at raising capital or negotiating mergers might earn them kudos, it wouldn't keep their shareholders happy in normal or slow market environments. These publicly traded entities needed to deliver reliable, consistent, and ever-increasing profits to their investors, whether or not the cyclical financial markets cooperated. Fees tied to the process of raising capital for clients—which was, in its turn, dependent on those financial market cycles—weren't going to be enough to keep shareholders happy. The future of Wall Street's biggest institutions lay not simply in helping Main Street clients navigate the liquid and transparent stock and bond markets but in generating newer and more exotic proprietary products.

The ugly end to the dot-com boom in early 2000 drove that message home to Wall Street decision makers like nothing else had done. They had spent the waning years of the twentieth century chasing the kind of fees that had been the bread and butter of Wall Street: taking start-up technology companies public, raising both debt and equity for the likes of WorldCom and AT&T Wireless, and pocketing merger advisory fees by helping companies such as Cisco and JDS Uniphase snap up innovative young companies. At least some of those who were part of that boom look back on it now with a degree of wistful nostalgia as the last golden age for the classic investment banker. “It was a period when we did what we were good at, more efficiently than ever before, and made more money for ourselves than ever before,” says Larry McInnes\*, a veteran technology and telecommunications banker.

Shareholders were happy; the average brokerage firm reported a 27.3 percent return on equity in 1999.<sup>1</sup> Goldman Sachs, which hadn't even had an investment banking office in Silicon Valley itself until that year, nevertheless managed to grab a commanding lead in technology stock underwriting, helping it capture a return on equity of 34.2 percent and making the firm—yet again—the envy of all the other chief financial officers on Wall Street. But that happiness could endure only as long as the market bubble kept inflating. Profitability on that scale came from making Wall Street's core process work overtime. After Netscape changed the game, Wall Street, eager to capture its share of the speculative frenzy in the shape of investment banking fees, was happy to fuel that frenzy by underwriting initial public stock offerings for increasingly risky companies, some of which had been in existence for just months and had no revenues, much less profits, to offer their investors. Goldman Sachs led the offering for Webvan, a grocery delivery service that rapidly closed its doors, while Merrill Lynch brought Pets.com to market; that company shut down ten months after the IPO. But Wall Street's priority was keeping its own shareholders content; as transactions became more speculative and riskier for investors, they became increasingly lucrative for the investment banks.

In 1995, the fee per transaction (equity and debt underwriting as well as advisory fees) on Wall Street hovered around \$1.19 million; it hit \$1.48 million in 1998, \$1.81 million the next year, and a high of \$2.03 million in 2000.<sup>2</sup> The average Wall Street bonus nearly doubled between 1998 and 2000, topping \$100,000 for the first time.<sup>3</sup> Goldman Sachs alone had pocketed \$24.5 billion in fees for underwriting sixty-three IPOs during 2000. By the end of that year, two-thirds of all IPOs were trading below the price at which the stock had first been issued. Investment banks were not going to give back any of their fees, however.

Still, with the classic financing process in a cyclical slump and the average ROE for investment banks and brokerages plunging to between 12 percent and 13 percent in 2001 and 2002, it was time for Wall Street to play the card it had kept stashed up its sleeve for

years. The fact was that Wall Street firms no longer needed to rely purely on the fees they earned for overseeing processes such as underwriting, sales and trading, or advising on mergers. These intermediary functions were profitable only when they could be done in tremendous volumes, as had happened at the height of the dot-com boom. The longer the slump that began in 2000 lasted, the more Wall Street needed to find an alternative source of revenue, preferably one with a higher profit margin.

Wall Street couldn't survive without fees, as veteran banking analyst Mike Mayo pointed out in the first round of hearings convened by the Financial Crisis Inquiry Commission (FCIC). Fees from Wall Street activities, Mayo noted, had generated no more than about 20 percent of bank revenues from the early 1950s right up until the early 1980s. But as other sources of revenue slid and banks found ways to create, package, and sell more exotic securities, that proportion rose—by the late 1990s, banks were earning some 40 percent of their revenues from fees. The answer, it became clear, was to develop structured products: the more complex the better, since the more sophisticated investment and risk management products commanded the highest fees from their clients.

As Federal Reserve monetary policy makers addressed the recession of 2000–2002 by slashing interest rates to the lowest levels most Wall Street bankers had seen in their lives, it made sense that many of these new products would be tied to two markets that are not only the country's largest but also closely linked to interest rates: the debt market and the housing market. Lower interest rates drove borrowing costs down for everyone, from the biggest leveraged buyout fund to the most cash-strapped home buyer. Not surprisingly, the level of borrowing skyrocketed, as did a host of new Wall Street debt products, from the relatively straightforward corporate bonds to leveraged loans and the now-infamous collateralized debt obligations (CDOs).

By 2005, the CDO had steered Wall Street back into extremely profitable territory. The focus on products (in the shape of CDOs) helped profitability per transaction jump back to \$1.54 million and

then to \$1.91 billion in 2006, by which time the CDO market was worth a whopping \$2 trillion, according to research firm Celent. (Estimates are that Wall Street investment banks and other participants in the mortgage boom had pocketed the same amount in fees for originating, packaging, and repackaging the mortgage-backed securities in those CDOs during the five years from 2003 to 2008.) Wall Street was hooked, this time on a product—the CDO—rather than on a process such as IPO underwriting.

As profitability zoomed, so did the risk. As one unnamed subprime lender in California recounted, “The sales guys from the Street would come and talk to you and hype you up. They would try to get you to do something. From Monday to Thursday you would make the loans.... By Friday your mistake would be on the marketplace” in the form of a new CDO.<sup>4</sup> The subprime lender (a firm such as Angelo Mozilo’s Countrywide, for instance) pocketed an origination fee for making the loans; the Wall Street institution begging for the raw material to turn into CDOs collected the fees for gathering the loans together, repackaging them, and selling them. The quantitative analysts on Wall Street, who used mathematical or statistical models to analyze the financial markets and develop new trading and investment strategies and tactics (these “quants” would become known as the Street’s rocket scientists), began pushing the boundaries of the possible still further. As margins on CDOs began to dip, they first sought to create CDO-squared products (made up not of packages of mortgage-backed bonds but of chunks of CDOs) and even CDO-cubed structures (made up of pieces of a few CDO-squared products in a different combination). These variants weren’t even composed of real assets but were “synthetic” securities, built of derivatives designed to mimic what the real assets would do.

Ultimately, Wall Street came to rely on these exotic securities for its profits. At the end of the day, there are a finite number of blue-chip companies that need Wall Street’s help to raise capital or complete a merger deal. Persuading any one of those to do one extra deal a year is time-consuming and the odds of success are low, as any Wall Street veteran will admit: corporate deal makers are

well aware of the many studies showing that most mergers don't deliver the promised operational or financial benefits. Without a clutch of blockbuster deals—a few IPOs like that of Google, a series of multibillion-dollar takeovers on which to earn advisory fees—it was going to be hard to earn the kind of profit margins investors wanted. Wall Street needed help, and one of the places it found it was in the development of a new kind of deal machine, based on proprietary products. If the deal machine faltered, investment bankers knew, so would profit margins—and that just wasn't acceptable.

For all its fascination with correlations—market relationships, such as that between the price of crude oil and the value of oil and gas drilling companies, for instance—Wall Street seemed oblivious to one of the most significant correlations of all. Whenever its own fee income spiked to unusually high levels and its ROE levels surged well above average levels (by some calculations, around 15 percent), disaster seemed to follow. That had happened in 1999 and 2000. In 2006, the average ROE of the investment banks hit an average 23.3 percent, with Goldman Sachs again leading the pack with 33.3 percent. But Larry Sonsini, the Silicon Valley lawyer whose firm advises about four hundred public companies and thirty-five hundred privately held businesses, was watching with growing anxiety. “Month by month, year by year, I saw one investment bank after another drifting further and further away from their knitting, investing more and more in products rather than services,” he says. Even the rhetoric changed, he observes. Instead of talking about Wall Street's role in the economy, the bankers he knew began to emphasize their role as profit-making businesses with no overarching economic mission. “They didn't even realize that they were moving outside the boundaries of what they had traditionally done; much less ask if it was a good idea for themselves, let alone the broader system. And as it turned out, they screwed up; Wall Street didn't understand what they were doing well enough to manage the risk associated with it. They felt they needed this business, and now we're all paying the price.”

Even those who served as the earliest architects of this new Wall

Street didn't fully recognize the transformation they were helping to orchestrate. At Salomon Brothers, Lewis Ranieri knew that securitizing mortgages just made good sense for all concerned, from homeowners to investors—and certainly for Wall Street. He didn't envision the advent of collateralized debt obligations (also known as CDOs), much less CDOs squared or synthetic CDOs based on credit derivatives. He certainly didn't conceive of how those later innovations would transform an idea that made sense for all parties and that served a need for Wall Street's client base, into little more than a casino. As he later admitted in an interview with Fortune magazine, "I wasn't out to invent the biggest floating craps game of all time, but that's what happened."

Certainly, no one recognized the implications of the changes within Wall Street institutions that accompanied the shift in focus. The emphasis on products, rather than services, meant that relationships with clients became slightly less important with every month that passed. It took years, but by the end of the transition, few people were surprised when Goldman Sachs's CEO Lloyd Blankfein implied during his testimony on the Hill and to FCIC panelists that the firm's clients needed to do their own due diligence. Clients were on their way to becoming little more than counterparties. The inflection point had come and gone.

Mayday, Mayday, Mayday!

Wall Street's obsession with products and product innovation as a recipe for profits has roots more than thirty years old. May 1, 1975, has gone down in the history of the Street as "Mayday," the date the Securities and Exchange Commission had dictated would mark the end of fixed trading commissions in the stock market. Overnight, Wall Street's comfortable existence was shaken; its long-standing business model was turned upside down.

Until then, investors had been forking over 40 or 50 cents a share to place a buy or sell order for stock through their broker. "I was a big producer, because I'd do one trade in connection with a deal."

recalled the late Fred Joseph, former CEO of Drexel Burnham (itself a victim of product-related risk-taking in the form of junk bonds), who went on to cofound a boutique investment bank, Morgan Joseph. “I could make a \$500,000 fee without discussing it with the client” simply because the commission was fixed. Those fees, many paid by big institutional investors such as Fidelity and Capital Research and Management, earned massive profits for those who did nothing but execute the trades. Jimmy Cayne, then a rising broker at Bear Stearns (and later its CEO and chairman), pocketed up to \$900,000 a year at a time when Bear’s partners earned only \$20,000 plus a share in whatever profits the firm made each year.<sup>5</sup> “Oh, that was a wonderful cushion,” recalled Joseph. Those profits, he explained, helped subsidize all kinds of other businesses that were vital to Wall Street’s core function but that didn’t make much money in their own right, such as research.

When regulators dismantled the fixed commission structure, they weren’t thinking much about the unexpected consequences that might follow. Their focus instead was on the rebound in trading volumes that took place as the bear market of the early and mid-1970s loosened its grip. A pricing system that seemed reasonable when the average daily trading volume in a stock might be a few hundred shares looked like Wall Street getting rich at the investor’s expense when volumes climbed. After all, it didn’t cost a brokerage firm ten times as much to trade a thousand shares as it did to buy or sell a hundred shares of stock, in terms of the salaries paid to staff on the New York Stock Exchange, telecommunications costs, and other forms of overhead. Commissions of 40 cents a share were simply too costly for Wall Street’s buy-side clients—the investors—to sustain, and the SEC decided that the intermediaries should have to negotiate their fees with their clients, competing against each other to offer the best deal. At Goldman Sachs, bankers recall they expected those transaction fees to fall 10 percent or so during the first few months of the new pricing regime. It was one of the few occasions when Goldman Sachs would be proven dead wrong. By the end of Mayday itself, the first day of the new trading fee regime, Wall Street’s largest and (until now) most profitable customers had



used their clout to negotiate trading costs that were half what they had been the previous day. The trend continued. By the 1990s, trades that had once cost dollars to execute could be done for pennies; even the smallest individual investors were benefiting as discount online brokerages offered rock-bottom trading fees to win their business.

Initially, the end of fixed commissions won the moniker Mayday simply because of the date the new system began—the traditional May Day, celebrated for centuries as the beginning of spring. But perhaps the selection of a word that doubles as a radio communications signal for a life-threatening emergency wasn't all that coincidental. Michael LaBranche, now head of one of the New York Stock Exchange's firms of specialists, recalls people walking around the trading floor lamenting the changes and proclaiming it was the end of their business.<sup>6</sup> In a way, it would prove to be just that. Even those firms who had supported it, such as Merrill Lynch (which hoped to use negotiated commissions as a way to nab a larger share of the trading business), couldn't have anticipated the long-term consequences, in particular the scramble to replace the now-vanished cushion of earnings.

Wall Street's Mayday "changed the whole nature of Wall Street; what we did and who we were," argues Wilbur Ross, a financier and private equity investor who at the time worked in an institutional brokerage that specialized in research. No longer did the large and lucrative trades by big institutions help investment banks and brokerages subsidize less profitable but systemically important businesses, such as executing trades for individual investors and providing investment research. "Research suddenly had no value in its own right and wasn't being subsidized," Ross contends. "So the clever people on the Street said, 'Okay, we'll use these smart and well-paid people to bring in investment banking business.' " That led directly to one of the Wall Street scandals of the last decade, the one that pointed out just how wide the gulf had grown between the Street and the investors who had previously relied on firms such as Merrill Lynch not only to execute their trades but to give them advice.

Henry Blodget, the former hotshot Internet analyst, had done a very good job picking winners for Oppenheimer's investment clients, suggesting that they snap up shares in Amazon.com when the online retailer was trading at about half of his price target of \$400; it breezed through that level only weeks later. That forecast grabbed the attention of Merrill Lynch, which recruited him to make research calls that would be just as lucrative for their clients. But if Blodget was good (in the short term) at picking dot-com winners, he proved great at raking in investment banking fees and being a cheerleader for the speculative Internet stocks. Even when their prospects soured, Blodget remained publicly upbeat. After the bubble burst, regulators began to question just why supposedly smart people had advocated that the rest of us do stupid things. They discovered that Blodget had sent internal e-mails to Merrill Lynch colleagues, griping about having to talk bullishly about overvalued and risky stocks just to help Merrill land investment banking deals. Blodget later forked over \$2 million in fines (Merrill itself paid \$100 million) and was barred from the industry for life, but he was far from the worst offender. And to this day, no one has figured out how to make independent and substantive investment research a paying proposition for a Wall Street firm.

For his part, Wilbur Ross simply shifted gears, forging a career first as a turnaround specialist and investor in distressed assets at Rothschild Investments, then launching his own specialized buyout firm in 2000. In his new position, Ross rarely had to worry about dealing with the pressures that Mayday had unleashed—particularly the push to produce a constant stream of high-margin new products that could help (temporarily, at least) fill the void left by the disappearance of fixed commissions. But he was aware of them nonetheless. “I was performing a specialized function and collecting a fee for it,” he says of his work restructuring bankrupt companies. “But elsewhere on Wall Street, people were substituting balance sheet strength for brains” whenever the new product pipeline slowed.

## The Beginning of the End of the Old-Model Wall Street

Even before Mayday struck, the world had begun to change for Wall Street's investment banks and brokerages. The old-style partnership structure limited the amount of capital available and was increasingly proving inadequate for the new environment that was emerging. The capital belonged to the partners: they brought it with them and invested it when they joined the firm, and they contributed to it as the deals they did generated profits that caused the firms' profits to swell. And when partners retired, they could take it with them. Even the biggest partnerships chafed at the limits that this structure imposed on their ability to compete for big underwriting deals.

There were tremendous upsides to the partnership structure as well, especially when it came to managing risk. The partners all had a say in how to deploy the investment bank's assets—what deals to underwrite, what back office investments to make, whom to invite to join the partnership. The thinking was that no partner in his right mind (and they were all men) would take outsized risks that might jeopardize the health of the financial system, because in doing so he would destroy not only his professional reputation and his firm but also his financial security and that of his family. “When a partner put his capital on the line, he knew it was his right and responsibility to ask questions,” says investment banking veteran John Costas, a former head of UBS's investment banking operations who launched his own boutique, PrinceRidge, in 2009. “If I'm involved in mortgage-backed securities, and someone else wants to do a big oil trade that I'm not comfortable with or don't understand, I'm going to raise my hand and say so, and tell them they need to explain it to me, because it's my money that's at stake.”

Peter Solomon, chairman of his own boutique investment bank, Peter J. Solomon Co., recalled the scene at his former firm, Lehman Brothers, for the benefit of FCIC commissioners during the latter's first round of hearings in January 2010. “The important partners of Lehman Brothers sat in one large room on the third floor of ... the

firm's headquarters," reminisced Solomon, who later became vice chairman of Lehman as well as co-head of its investment bank and head of its merchant banking operations. "The partners congregated there [but] not because they were eager to socialize. An open room enabled the partners to overhear, interact, and monitor the activities and particularly the commitments of their partners." There was a reason for any eavesdropping and snooping that took place, Solomon pointed out. "Each partner could commit the entire assets of the partnership" to a transaction.

The cons began to outweigh the pros of this system during the 1960s. That is when the capital constraints of the traditional partnership structure collided headlong with a surge in investor interest in stocks and a corresponding explosion in the trading volume on the New York Stock Exchange, which doubled between 1960 and 1965 and then more than doubled again by 1968. Drowning in the paperwork associated with each trade, Wall Street firms couldn't keep up. For a while, the stock exchange had to shut down every Wednesday, just to give its member firms a chance to balance their books. Even that didn't help; scores of brokerage houses simply collapsed, running afoul of net capital rules when they couldn't prove they had enough capital to support the trading positions that they had taken on behalf of clients. Technology was part of the answer, and so was hiring additional staff to deal with the flood of paperwork—but both would require large, long-term infusions of capital. And as Don Regan, then CEO of Merrill Lynch & Co., pointed out, with the partnership structure "you were never really sure what your capital was going to be."<sup>7</sup>

Dan Lufkin and his two partners, who had cofounded Donaldson, Lufkin & Jenrette (DLJ) in 1959, were determined that their fledgling firm wasn't going to be among the casualties. Although the NYSE's rules at the time required that its member firms be private partnerships, Lufkin believed that survival required major change. So in early 1970 he showed up at a meeting of the New York Stock Exchange Board of Governors, to which he had just been elected, and calmly informed his peers that his firm would file to go public the next day in order to raise a permanent capital base and put the

business on a firmer footing. The reaction, Lufkin later recalled, “was pretty nasty, old men screaming.”<sup>8</sup>

Chief among the opponents was Felix Rohatyn, one of Wall Street’s most revered deal makers and managing partner of Lazard Frères, who snarled at Lufkin, “You are Judas.”<sup>9</sup> Despite furious opposition from Rohatyn and others (Lazard itself wouldn’t go public until 2005, after Rohatyn had left the firm to become U.S. ambassador to France), Lufkin and his partners prevailed, completing their IPO in April 1970, at a price of \$15 a share. Although they raised less than they had hoped in the IPO, and although the stock’s price languished well below that level during the bear market of the early and mid-1970s, the firm and its partners had pointed the way to an entirely new business model—the publicly traded investment bank, whose executives deployed investors’ capital (aka other people’s money) in search of the highest possible return.

The pressures on other banks to follow suit increased over the coming years. During the 1970s, new computer technology made markets faster-moving and more efficient, which in turn caused the spread between the bid and ask prices on any given stock (the difference between the price at which investors were willing to buy or to sell) to contract. Mayday knocked one prop out from underneath the old model of investment banking profitability; the computer would do the same to another, since those spreads represented another big chunk of Wall Street’s earnings. To stay profitable, investment banks would have to become more active traders, making up in the number of trades what they could no longer capture in profit margin per trade. But that would require capital investment, and one by one, the other Wall Street powerhouses followed DLJ’s lead and filed to go public in the 1970s. Some moved rapidly—Merrill Lynch in 1971—and others dragged their heels, worried by how the transformation might affect their culture. The results of this shift from partnerships to public ownership—and the wave of mergers that would follow—would prove dramatic. In 1955, the ten largest investment banks had about \$821 million in equity (and subordinated debt) on their balance

sheets; by 2000, that had ballooned to about \$194 billion.<sup>10</sup>

Goldman Sachs was the last of the major Wall Street players to make the transition, finally going public in 1999. There, too, partners-turned-shareholders saw the firm's culture shift, slowly but inexorably. Once, partners had been able to describe themselves—with a straight face—as being “long-term greedy.” Now, things were different. “There was an awareness that we had a new constituency, and that all of our traditional ways about thinking about the business didn't necessarily tie in to what those guys wanted from us—which was profits and returns,” says one former Goldman partner. “At some point along the way, we forgot to ask the question that had always been at the top of the list: is this piece of business worth having?”

Donaldson, Lufkin & Jenrette's open challenge to the Wall Street status quo was just the tip of the iceberg. There were other factors at work that would reshape the way Wall Street worked, notably the bear market of the early 1970s. Why do business at all? Wall Street's largest clients asked themselves. Why not just sit on the sidelines and wait it out until the extreme market volatility became a more manageable environment? Individual investors, who had flocked to Wall Street, savings in hand, during the 1960s, promptly pulled back. Wall Street's fee income from its traditional businesses—buying and selling stock on behalf of its clients and underwriting their debt and equity businesses—was threatened once more.

The solution? New products that would address new concerns, such as how to hedge against market slumps or volatility. Options were one possibility; these gave their purchasers a way to bet on the future price of an underlying stock (and, later, on the movement in indexes and other assets) for a fraction of the cost of buying the stock and with less risk than selling it short. (A short sale, in which investors borrow the stock from a broker and sell it in the hope of repurchasing it at a lower price to return to the lender and pocketing the price difference as their profit, has potentially unlimited risk. If a stock sold short at \$10 soars to \$100 a share instead of falling to \$5, an investor is out \$90 a share rather than making a \$5-a-share profit.)

Until 1973, options had been used mostly by speculators, but that year a new mathematical model offered a seemingly perfect solution to the problem of how to understand the volatility and risk of a stock and therefore determine the correct price of an option. Devised by MIT professors Fischer Black and Myron Scholes (and immortalized as the Black-Scholes model), the formula gave dealers in the new and rapidly proliferating options products on the fledgling Chicago Board Options Exchange a relatively straightforward way to make a profitable market in options and helped investors use the products with greater comfort. (The model's limitations would become apparent only with the passage of time and in periods of market stress, as I'll show when it comes time to discuss risk management.) Black-Scholes opened the door for Wall Street to begin selling options-based strategies to their clients: investors could, for instance, own a stock but use options to hedge the risk that its price would slump in a bear market. Best of all, in addition to proving that they were paying attention to their clients' needs and wants in a time of stress, brokers could actually earn higher fees from options transactions than they could by executing more plain-vanilla stock and bond trades. It was a win-win situation—at least for the time being.

Globalization also created new market opportunities. In 1971, the United States abandoned the Bretton Woods system of fixed exchange rates, creating a thriving market for options and futures contracts on foreign currencies, such as the British pound, Japanese yen, and Swiss franc. The Eurobond market was another attractive new opportunity. Born in London's financial markets in the 1960s, it involved issuing dollar-denominated debt outside the United States, meaning that the issues didn't need to be registered with the SEC and that the companies selling debt didn't need to abide by U.S. accounting rules.

The Eurobond market was one of the fastest-growing capital markets around—and, like options, it was a lucrative alternative to plain-vanilla bond deals, rewarding underwriters with higher fees. But trying to build a Eurobond business drove home, yet again, the need for a large and stable base of capital. Not only did trying to

grab market share in Eurobonds mean establishing a presence in London, but players such as Morgan Stanley and Goldman Sachs (among the early arrivals) would need to compete with giant commercial banks such as Deutsche Bank and Credit Suisse, institutions that, unlike their U.S. counterparts, faced no domestic rules against using their giant commercial banking balance sheets to help them muscle in and grab investment banking business. (The 1933 Glass-Steagall Act, passed in the wake of the 1929 crash and mandating the separation of commercial and investment banking, was based on the belief that this kind of risk taking on the part of commercial banks had led to the collapse of the U.S. banking system during the 1930s.)

Long before the 1987 crash, all the ingredients required for Wall Street to become a higher-risk environment were solidly in place. “When we went from private partnerships that were the bread and butter of Wall Street’s success for many years to publicly traded entities, we may have gained financial capital, but we lost one of those important checks and balances” that stops participants in the financial system from piling on risk, says John Costas. Moreover, publicly traded investment banks found that their new shareholders had a slightly different view of what the institutions’ priorities should be than the former partners had had. Both wanted to maximize market share, but one of the trade-offs for access to capital was the demand by new shareholders that the firms also maximize profitability. If Goldman Sachs could earn an ROE of 20 percent or more, why couldn’t Merrill Lynch, Citigroup, or Morgan Stanley? That’s the kind of question that Wall Street’s chief financial officers found themselves being asked year after year, with increasing heat, indignation, and exasperation. Soon they began to share that perspective. “Look, if we’re going to be honest with ourselves, we need to admit that we wanted it all,” says Lou Gelman, the former Morgan Stanley banker. “We wanted to keep making fat fees, posting high profit margins on relatively straightforward kinds of business. And after 1975, the writing was on the wall: that was never going to happen again.” Wall Street, as it had functioned for decades, had undergone an irrevocable change.



one that made its core utility function take a backseat to its ability to devise new and exotic products.

## From Cornflakes to Raisin Bran

In Marty Fridson's view of the world, today's Wall Street has drifted far afield from its roots as a utility, driven there by the winds of change blowing through the financial system and originating outside it. He sees clearly through the rhetoric that the investment banks still put forward when describing their role, to the heart of the matter: Wall Street's real focus is profits, not its utility function. And after a quarter of a century spent warning investors when one of Wall Street's cherished junk bond deals is nothing more than a pig dolled up in lipstick, Fridson is willing to speak his mind. It is no longer about the process, he insists; it's about the products. "I tell anyone I meet who's starting out in banking or research today, Wall Street is really in the breakfast cereal business," Fridson says bluntly. "Forget the idea of having a big mission. They're selling stuff to people, and after a while, that stuff becomes a commodity, like cornflakes. And then it's time to come up with a new, better idea, something that will become the financial equivalent of peanut-butter-flavored Cap'n Crunch."

How did fees earned from selling "stuff"—whether it's junk bonds, CDOs, or exotic derivatives—come to replace the fees captured as a result of the process of bringing together investors with those in need of capital? It all dates back to the changes that began in the 1970s. Wall Street's investment banks had always battled ferociously for the top spot in the league tables, the monthly, quarterly, and annual rankings that show which firms dominated the underwriting of what kinds of securities for what kinds of companies. The turmoil caused by Mayday introduced a new, cutthroat element of price competition to that already feverish competition. Most institutions that survived the 1960s and 1970s, whether through some kind of strategic planning or through trial and error, ended up devising several different ways to try to boost

their bottom line in a world of perpetual downward pressure on profit margins. A failure to replace trading revenues lost to technological innovation and deregulation could mean the institution's collapse, they were all well aware.

Sallie Krawcheck, who studied the investment banking business first as a research analyst and head of research at Sanford C. Bernstein and later as chief financial officer at Citigroup, notes that every year for thirty years after Mayday, the revenue that Wall Street collected in the form of trading fees declined. Every year, investment banks needed to generate more—not less—income and profit. The only solution? “You had to start running faster and innovating,” says Krawcheck. “The best way to increase profits in that environment was, firstly, through innovation or by increasing the amount of leverage on your balance sheet.”

The need for product innovation was made more pressing by the breakdown in long-term client relationships. The House of Morgan had ties to AT&T that dated back to a 1906 bond underwriting; Morgan Stanley inherited the investment-banking portion of those ties after the passage of the Glass-Steagall Act forced the venerable banking institution to separate its commercial bank from its investment banking operations. Between 1936 and 1968, AT&T steered \$4.68 billion of underwriting business to Morgan Stanley, yielding lucrative fees.<sup>11</sup> And AT&T was just one of the forty-one major corporate clients that used Morgan Stanley as their sole lead manager on deals like this; 80 percent of their top clients would deal with no one but Morgan Stanley. So when one loyal client, IBM, turned to Salomon Brothers to handle its 1979 bond deal, the writing was on the wall: client loyalty was becoming a matter of the question “What have you done for me lately?”

Sure enough, clients began shopping around for the best deals. That, in turn, put more pressure on investment banks to go public, since part of offering a client the best deal increasingly required the investment bank to put its own capital on the line first, by doing “bought deals” (buying the securities for resale to investors), and later, by providing bridge financing. But clients weren't only shopping for the best deals: they also wanted the brightest ideas. To

return to Fridson's breakfast cereal analogy, Main Street was no longer content with being served cornflakes every day of the week. If a company needed capital, it wanted the right kind of capital, and if the increasingly sophisticated capital markets meant that was a highly structured customized transaction, well, so much the better for both the company and the investment bank, which could pocket a larger fee on the deal.

The cornflakes era had survived as long as it did not just because it worked (it had helped the government finance wars from the Revolutionary War right through to Vietnam, assisted states in building canals for transportation, and created extraordinary wealth for the railroad barons and others) but because Wall Street's clients didn't realize that there were—or could be—alternatives to cornflakes that would meet their needs or cater to their tastes more precisely. To stretch the analogy further, as long as consumers can rely on cornflakes to be readily available at a reasonable price and to get them fueled up for the day, they may not actively hunger for alternatives. But as soon as a smart researcher discovers that a significant minority of those cornflakes consumers love eating raisins atop their cereal, and realizes that that group might pay much more for a specialized product that satisfies their craving for raisins, bingo—Kellogg's Raisin Bran is born, and the world changes. Consumers flock to the exciting new product; to keep their market share, cornflakes producers slash prices and profit margins.

On Wall Street, Salomon Brothers was one of the firms playing the role of the manufacturer of Kellogg's Raisin Bran. As a firm that had specialized in bond trading, it watched its profit margins shrink and plotted ways to escape its allotted role in the Wall Street scheme of things. Through a combination of price cutting and innovation, Salomon parlayed its bond market trading prowess into more underwriting mandates from firms such as IBM, chipping away at the market share of their white-shoe rivals in a process that Pete Peterson, a financier and onetime secretary of commerce who became chairman and CEO of Lehman Brothers in 1973, referred to as "de-clienting."<sup>12</sup> The firm, whose dominance of the bond market was matched only by its ambition to capture an ever larger share of

Wall Street fees, became an expert innovator. Developing successful new products—even entirely new markets—would, Salomon’s leaders calculated, be one surefire way to escape the “muddle in the middle” in investment banking and catapult a second- or third-tier financial institution to the top of the heap, alongside the likes of Goldman Sachs.

One of Salomon’s chief bond gurus, Lewis Ranieri, originally had dreamed of becoming a chef in an Italian restaurant. When his asthma made it impossible for him to survive long days in smoky, steamy kitchens, he went to work in the mailroom at Salomon Brothers. It was the first step on his way to being anointed by *BusinessWeek* in 2004 as one of the greatest innovators of the last seventy-five years—and, later, to being referred to as one of the chief architects of the 2008 market meltdown. Unable to craft mouthwatering confections in a kitchen, Ranieri set about designing equally appetizing products for investors’ portfolios: mortgage-backed securities.

The idea of taking homeowner mortgages, bundling them together, and selling them had been introduced in 1970, with the launch of the first Ginnie Mae (formally known as the Government National Mortgage Association) securities. The concept was very simple: the financial institution (or issuer) trying to sell the securities rounds up enough mortgages, pools them in a special-purpose vehicle (such as a trust), and then underwrites bonds issued by that special-purpose entity. To all intents and purposes, it was like any other underwriting, except that the issuer wasn’t a real company, and the investors were getting a stake in a portfolio of some bondlike securities rather than a corporation. The cash from the sale goes right through the trust and back to the originator(s) of the mortgages, typically a bank or savings and loan institution. The way the bonds were priced and traded would depend on the kind of assets they contained—what kind of mortgages (commercial or residential) and the credit quality of all the home buyers taken in aggregate.

“No new product succeeds unless it’s in the interest of investors,” argues Michael Lipper, president of Lipper Advisory Services. In the

more than thirty-five years since Lipper first created a series of indexes to track the performance of mutual funds, he has watched the Wall Street innovation juggernaut produce a seemingly endless series of new products, or new twists on older products, all in hopes of gaining at least a momentary edge in the constant battle for market share and fee income. “Chuck Prince’s comment about keeping dancing as long as the music was playing got him a lot of hostile feedback, but what people often overlook is that it takes two parties willing to dance together,” says Lipper, referring to the former Citigroup CEO’s comment. Any product that succeeds, such as mortgage-backed securities, Lipper believes, does so because it meets a need for both the issuer (the banks and savings and loan institutions) as well as the investor. “Wall Street doesn’t go around trying to invent things just for fun, and they couldn’t sell them if the product didn’t meet some kind of need on the part of the investor. Wall Street institutions don’t go around holding guns to the heads of investors or their other clients, and insisting that they buy this structured note or the other derivative contract.”

Indeed, it’s pretty much impossible for Wall Street to do anything like that in the earliest stages of a new product’s development. When Ranieri began to turn the fringe business of mortgage securitization into a money spinner for Salomon and for Wall Street as a whole in 1977 (at its zenith, Ranieri’s mortgage finance group would generate half of Salomon’s profits), mortgage-backed securities were legal investments in only fifteen states; even where legal, they weren’t necessarily respectable. But it became clear, as Ranieri fought a two-front war to win investor understanding and legal recognition of asset-backed bonds, that the new products filled needs on both sides. The 1970s were the era of market volatility, but also the decade in which the first baby boomers began purchasing homes. Banks were overwhelmed; every loan they made was a fresh inroad into their capital base, and demand was such that they couldn’t cope. But if they could originate the mortgage loan and then sell it to another nonbank investor—well, that instantly removed any artificial constraints to issuing a mortgage. A home buyer in Boise, Idaho, wouldn’t be turned down for a loan

simply because that city's financial institutions—the only lenders directly available to him or her—had already made too many home loans.

The advent of the mortgage-backed securities market meant that home buyers indirectly had access to the entire money grid known as Wall Street. The banks were happy—they could keep collecting their fees for originating mortgages and maintain their other relationships with their clients. Home buyers were happy—they got their mortgages, often at a lower cost. (Ranieri figured that the evolution of the mortgage-backed securities market helped shave two percentage points off the cost of a typical mortgage simply by creating a more efficient market.) Investors eager for bondlike investments with higher returns than Treasury securities began snapping up the securities once they became more familiar with the structure itself. And the issuers—the Wall Street institutions such as Salomon Brothers—were happiest of all. With an investment of time, money, and brainpower, they had created a viable new product, one that would become central to the financial system, earning them lots of fees. And while it wasn't as venerable a business as underwriting or trading on behalf of corporate clients, it was just another way of fulfilling the same core function of Wall Street, bringing together those who needed capital with those who had it—in this case, home buyers and their banks with outside investors such as pension funds and mutual funds. It was just doing so with an emphasis on a proprietary product that happened to generate heftier fees than the traditional process had done.

## Innovate or Die

At a lavish dinner celebrating the fortieth anniversary of Institutional Investor magazine in 2007, Henry Kravis, a cofounder of the giant buyout firm KKR, was one of the evening's honorees—the forty “Legends of Wall Street.” (That group also included John Gutfreund of Salomon Brothers.) In his speech, Kravis chose to laud Michael Milken, the investment banker who had popularized the

“junk bond” during the 1980s. Without Milken, Kravis told the audience, KKR couldn’t have done the gargantuan deals that made it famous, and the entire buyout business (which had generated \$357 billion in deals in the United States alone the previous year, each of which produced massive fees for Wall Street investment banks) would have been stillborn. Kravis called for Milken to stand up and be acknowledged. With the Wall Street audience applauding and even whooping and cheering, Milken, sitting at a table in the midst of the crowd, rose to acknowledge the acclaim.

By the 1980s, innovation became the way for every investment bank aspiring to be ranked alongside Goldman Sachs and Morgan Stanley to achieve that dream. The smaller the firm, the more ambitious and aggressive it had to be in order to grab market share; the more willing to bet the house on a completely new idea. That is what Ranieri had shown with securitization at Salomon Brothers and Michael Milken would demonstrate at the firm that became known as Drexel Burnham Lambert. The venerable Philadelphia-based firm was still Drexel Firestone when Milken arrived there as a bond salesman in 1970. It had been in partnership with the House of Morgan until the passage of the Glass-Steagall Act in 1933, but like many of its peers had since undergone a long, slow slide. Three years after Milken joined Drexel, I. W. “Tubby” Burnham, head of a smaller but profitable investment bank, purchased the firm; when he learned that Milken, one of the smartest of Drexel’s traders, was on the point of leaving because his bosses wouldn’t give him any capital to use to trade, Burnham promptly handed over \$2 million. In a single year Milken doubled it, and Burnham raised the capital available to him to \$4 million.<sup>13</sup> The two men then struck what would become one of Wall Street’s most infamous compensation agreements: Milken would collect 35 percent of his group’s revenues, after the costs of running the business were deducted. “It was a good deal for us, and a good deal for him,” recalled Fred Joseph, who later became Milken’s boss. “Yes, it led to one year where he ended up doing so much business that he made \$550 million personally, but he made even more for the company.”

Milken's coup wasn't the invention of junk bonds; in one form or another they had been around since at least 1909, when Moody's began rating bonds issued by railroad companies and found that the credit quality of some wasn't high enough for them to be described as "investment grade," in the Wall Street jargon of today.<sup>14</sup> Milken transformed the market, realizing that to sell these lower-quality bonds, an investment banker needed to woo investors with the company's story, in the same way that a stock salesman would pitch the potential for future growth of a business. On the surface, the bonds were indeed junk—their credit ratings signaled that the company carried a heavy debt load or its business was troubled. But Milken could see that on a risk-adjusted basis, the prices for these bonds were too low, partly because there wasn't an active secondary market (there's no equivalent of the stock market for bonds) and partly because investors weren't evaluating them the right way.

Milken persuaded investors to look past the ugly credit rating to the underlying potential of the business. It was only natural, he argued, for some companies to have a lower credit rating, but the risk that they'd default on that debt, given the underlying business story, was far lower than the market price of the debt suggested. Milken succeeded so brilliantly that by the late 1970s, a host of companies that previously had been shut out from selling bonds because of their less-than-pristine credit rating were now able to issue debt—through Drexel Burnham, of course—to a growing coterie of investors that Milken had cultivated. "The first year that new issuance hit \$1 billion was 1977," recalls Marty Fridson, who in a few years' time would decide to specialize in analyzing junk bonds. When Fridson made that move, his colleagues thought he was a bit nuts; the products were new and the move was risky. "But it was a great career maker, because too few people were really studying these products, and the lack of understanding" created opportunities that Fridson believed trumped the risks.

Junk bonds, like mortgage-backed securities, were, in their earliest and simplest form, great for both investors and issuers. Investors able to do their credit homework got access to a whole



new pool of higher-yielding bonds, while the availability of the capital in this new market helped jump-start a host of new businesses in the gaming, telecommunications, and media businesses. Multibillionaire Steve Wynn relied on junk bonds to build his casino empire, as did Ted Turner in expanding his broadcasting business (including CNN). As these and other moguls caught on to this new type of financing, the early days of the junk bond revolution were good for everyone. The sheer newness of the junk bond market and the fact that no one but Milken and his team of specialists seemed to understand it meant that Drexel could charge an astonishing 4 percent of the proceeds of a junk bond issue in fees, compared to 1 percent for an investment-grade corporate bond issue. And there were more junk issues coming every year, as a new breed of financiers such as Henry Kravis used junk bonds to finance their buyouts.

That meant hefty profits. In 1977, Drexel reported about \$150 million in revenue; by 1985, that had soared to about \$2.5 billion, and the book value of its stock (which didn't trade publicly) had increased more than tenfold. By 1986, when its revenue hit \$4 billion, Drexel's estimated net earnings were \$545.5 million, making it the single most profitable investment bank in the country. None of its rivals could sell a billion-dollar deal in hours, as Milken boasted he could; the network of investors he had carefully cultivated was the ace in the hole that allowed his group (known as "the Department") to dominate Drexel, and Drexel to dominate Wall Street. Meanwhile, Salomon, the other upstart firm, had parlayed its dominance in other parts of the market (including the burgeoning world of securitization) into the position of Wall Street's second-most-profitable firm, earning about \$516 million (although it took twice as much capital to generate that kind of profit, making for a much lower return on capital).<sup>15</sup>

But every successful innovation carries within it the seeds of its own potential destruction, and Drexel's junk bond empire would be no exception. First, the product itself became less cutting-edge with every year that passed, and, as competitors became more adept (or hired some of Drexel's pros), the firm slowly but steadily lost

market share. Profit margins also shrank; in the case of junk bonds, the average fee an investment bank could demand for underwriting a junk bond issue fell steadily, to 2.1 percent by 2003 and a low of 1.5 percent in 2006. As with any hot new product, from the pocket calculator to the DVD player, on Wall Street the passage of time and greater sophistication makes it easier for rival manufacturers to offer the same product profitably at a lower cost. “The increasing complexity of products is a direct result of the fact that you can’t get a patent or copyright for your innovations on Wall Street,” explains Sallie Krawcheck. “So if you make something so complicated it will take your competitors a long time to figure out and replicate, well, that’s great. The longer it takes, the longer your advantage lasts.”

The awareness that fees are falling (or about to fall) puts the pressure on an investment bank to compensate for lost revenue. If the margins are shrinking, then, as Krawcheck points out, it’s up to the investment bank to somehow replace that revenue, whether by boosting volumes or adding complexity. In the case of products such as junk bonds (or CDOs), the logical first option is to ramp up the number of transactions. And that’s exactly what happened at Drexel. Fred Joseph, named president of the firm in 1984 and CEO in 1985, had promised Tubby Burnham that within the next decade he would use Drexel’s junk bond prowess to transform it into a firm that was even more powerful than Goldman Sachs, already considered the gold standard on Wall Street. “If we’d been asked publicly if we wanted to be Goldman Sachs, we’d probably have denied it, but secretly a lot of people coveted what they saw as Goldman’s cachet,” said Joseph, comparing this “Goldman envy” to the same feeling that hits a bright kid with a blue-collar background who makes it to Harvard or Yale only to find himself among privileged prep school grads who take their advantages for granted. “It wasn’t that we had a chip on our shoulder; just that many people figured they were just as bright as anyone at Goldman, but even then they and Morgan Stanley were the firms that got the automatic respect of every potential client. All they had to do was show up, some people would complain, to knock us out of the running for a deal.” That’s what Drexel’s junk bond prowess helped

change.

But Joseph couldn't reshape Drexel's culture, which was now dominated by Milken's group. And that group, it seemed, was playing fast and loose with the rules to drum up deals and profits. No one could figure out all that they were doing or get them to toe the line. Milken and others created a number of limited partnerships of dubious legality that allowed them to make even more money than Drexel itself and of which even Drexel's top executives and board members weren't aware. Ultimately, Milken refused to cooperate with Drexel's own internal investigation into the possible involvement of the department with insider traders Ivan Boesky and Dennis Levine. To settle the case, the firm forked over what was then the largest securities industry fine in history—\$650 million. Milken, indicted on a variety of securities offenses, ended up serving nearly two years of a ten-year sentence after pleading guilty to six felonies. By the time that Milken emerged from jail in early 1993, Drexel had been gone for years. Joseph himself was barred from actively running the new investment boutique he co-founded; until the day of his death in November 2009, he remained restricted to the role of co-head of corporate finance.

The roots of the problem, of course, were Milken's excesses and the risk management and governance failures those revealed. "Frankly, while I feel bad for people who worked at Drexel and had nothing to do with the high-yield bonds and lost their jobs and life savings, I don't feel bad that the firm collapsed," says Fridson today. "Any other firm could have done the same thing that Drexel did by committing almost all its capital to that one ultrasuccessful product line, but they didn't—and they were right, because that's too risky." And that's another reason it is perilous for any investment bank to rely on any single new product as a steady source of profits. In the case of junk bonds, by the time that Milken ran afoul of regulators, the junk bond cycle was coming to an end—a prospect to which he and others at Drexel seem to have blinded themselves. "Well, we only realized it in theory," Joseph admitted only a few months before his death. Interest rates jumped. the

economy slumped, and suddenly companies that had issued junk bonds began to default, at a rate of one in ten. The buyout kings, including Kravis, put their deal making on hiatus, cutting off the flow of fees to Drexel. Even if Drexel hadn't run afoul of the securities laws, its heavy dependence on a single product that was about to hit a cyclical slump, coupled with the fact that it was using its own capital to buy back some of those distressed bonds from unhappy investors, likely would have wreaked havoc on its profits and balance sheet. In 1990, Drexel filed for bankruptcy.

As Drexel's experience with junk bonds illustrates all too clearly, success requires more than one brilliant idea. To succeed at the innovation game, an investment bank needs a string of them, carefully developed so that as one is flagging or hitting a cyclical low, the next is appearing on the horizon. But how many "new new things" are there on Wall Street, really? In practice, Wall Street ended up turning to other, more dangerous ways to artificially prolong the profitable life span of its innovations, such as leverage and doing lower-quality deals. As Mike Mayo told the FCIC, the world of banking and investment banking became "an industry on steroids," whose loan volumes grew at about twice the rate of the underlying economy. "[Banks] pushed for loans that should never have been made," Mayo said. Ranieri's brainchild fell victim to this, as investment banks took the mortgage-backed securities he had pioneered and turned them first into CDOs, then into subprime CDOs, then into more complex CDO-squared or CDO-cubed structures. Ranieri began warning investors publicly about the problems with these later, high-risk incarnations of his creation around 2006. (In a 2008 interview, he would describe the increasingly exotic features of CDOs, conceived as a way to keep the fees flowing and the profits climbing, as "loans [that] need the tooth fairy to keep up their values.")<sup>16</sup> The more successful a new product or strategy is, the harder it becomes for an investment bank to stay disciplined, and Salomon (which would be caught up in a Treasury-bond trading scandal in 1991) and Drexel were no exception to that rule. Salomon would survive, although not as an independent firm (it became part of what is today Citigroup):

Drexel's deal makers moved on to try to work their magic at other investment banks and its alumni can still be found scattered across the Street.

## Chasing Goldman Sachs

One of the reasons most of Wall Street's investment banks have spent the last two decades chasing Goldman Sachs—or at least lusting after and trying to replicate its profitability—is the fact that Goldman is one of the few firms that has managed repeatedly to get the innovation process right. Part of the reason, rivals say now, is that the firm didn't place all its bets on a single product or even a single strategy. "They were about the only firm on the Street that saw the kinds of changes that were coming and planned for them strategically," says one former senior figure from another investment bank. "Of all the firms on the Street, Goldman Sachs is the one that behaves most strategically, nearly all of the time. When it doesn't know what kind of new business model will emerge, it puts a bet on everything, in order to be sure it will be part of whatever emerges the winner." That's what happened in the late 1990s, when the SEC ordered some of the most sweeping changes to the way stock trading took place on Wall Street. The New York Stock Exchange lost its control of trading in the stocks listed on its own exchange to rival start-up electronic networks. Goldman had taken a stake in a number of these; ultimately it used its clout to arrange a merger between one of the winners, Archipelago, and the venerable stock exchange. Today the combined entity is run by a former Goldman Sachs managing director. "That's just what they do," says the former rival with a shrug. "Their approach to innovation is opportunistic."

That approach dates back to the 1980s, when two of Goldman's former leaders, Robert Rubin (who would go on to become Treasury secretary for the Clinton administration before returning to work on Wall Street, this time at Citigroup) and Stephen Friedman, realized that they had two options if their white-shoe investment

bank was to retain its elite status. Midsized firms were doomed, they concluded; either they would collapse or become acquisition targets. That left Goldman with the choice of either being a great boutique investment bank or making the leap and becoming a giant global financial institution. Rubin and Friedman decided on the second course of action.<sup>17</sup> (In the 1990s, faced with the same dilemma and reaching exactly the same conclusions that being stuck in the middle was a recipe for disaster, Bill Hambrecht's successor at the head of Hambrecht & Quist, Dan Case, decided that even survival as a boutique was doubtful in a world now dominated by giants; he decided to sell the firm to what was then Chase Manhattan Bank, a predecessor of today's JPMorgan Chase.)

Goldman recruited quantitative analysts—known as quants—such as Fischer Black to help them come up with new products and fresh approaches to trading, and tried to identify new business opportunities wherever they could. The firm needed to devise new products and business lines—and it needed to be the first to launch them, Friedman believed. “If we’re not leaders in innovation, we won’t be fast enough to reap the really good profits that the innovators get—and deserve.”<sup>18</sup> The 1970s bear market had left many companies with depressed stock prices and discontented shareholders, making them vulnerable to hostile takeovers by a growing array of corporate raiders who were beginning to make their names on Wall Street. Goldman’s bankers began offering what they labeled “tender-defense” services to actual and potential targets. The first few times their bankers called on a target company, their offer of help was politely declined. They persisted, and beleaguered executives quickly realized how useful it could be to have Goldman’s financial markets know-how on their side in a battle for control of their companies. Ultimately Goldman managed to parlay this into a business that generated a steady stream of income each year. CEOs, reassured by the fact that Goldman refused to work for any of the raiders, were apparently quite happy to fork over annual retainers to the investment bank in exchange for the right to summon its team of defense specialists should a raider come calling. (In contrast, many of Goldman’s rivals seemed more

like mercenaries, working on an ad hoc basis for either raiders or targeted companies, depending on who was willing to pay a fatter fee.)

In addition to creating its tender-defense business and its push into overseas markets, Goldman Sachs acquired J. Aron, a veteran commodity and futures trading business. As Rubin and Friedman had recognized earlier, and as Dan Case would later, Herb Coyne of J. Aron saw Wall Street was changing; his firm wasn't likely to survive if it remained a stand-alone business. Coyne's willingness to sell gave Goldman a toehold in these high-margin businesses (J. Aron's business lines generated a third of Goldman's profits with only about 5 percent of the staff) and helped the company prepare for a still more significant change, one that the next chapter will explore in greater detail—the transformation of Goldman from a firm that simply executed transactions for its clients to one that used its own base of capital to take risks, investing or trading on its own behalf.

Collectively, those innovations resulted in the creation of a business model that increasingly appeared to the rest of Wall Street like an unbeatable juggernaut. Between 1996 and 2008, Goldman Sachs's return on equity averaged 24.4 percent, dwarfing those of its rivals. Lehman, its nearest rival for most of that period, managed to earn 19.2 percent, while Morgan Stanley came in third, with an ROE averaging 18.6 percent. That was a wide gap, and one the outside investors in the now publicly traded investment banks badly wanted to close. It was now that the IPOs of the investment banks proved to be a double-edged sword. They provided Wall Street investment banks the capital base they needed to expand globally and to innovate as well as giving partners the ability to lock in their profits and reduce their risk. (The Goldman Sachs IPO alone created hundreds of instant paper millionaires out of all its partners.) "It was very, very tempting to sell to the public," says Sam Hayes of the Harvard Business School. "The claim was that they needed the capital, but to this day I think it was just as much about greed. An IPO gave partners in an investment bank the opportunity to sell, or at least value, their ownership of the firm at a multiple of book

value.”

The IPOs had made bankers richer and helped them expand their business, but they had also made that business more accountable to outsiders, whose definition of success involved generating the biggest return on equity within the industry and boosting profits quarter after quarter, year after year. Large shareholders, including mutual fund managers, would meet with the CEOs of large publicly traded investment banks and challenge them—not always politely—to do whatever it took to boost the firm’s return on equity to match that of Goldman Sachs. How would they get the extra 5 or 10 cents in earnings per share that investors wanted this year? What business could it come from? What product could be created and sold, rapidly and profitably? And what could they do to maintain those profits over the long haul, when the newness wore off and rivals started to imitate them?

The pressure filtered its way down the food chain. “Every quarter, we’d get some kind of note about how this would be the biggest or most important quarter in the firm’s history, asking us to keep focused and deliver the results,” recalls Peter Blanton, whose career as an investment banker has taken him to Citigroup, Credit Suisse and Lehman Brothers, among other firms, and who now works for a boutique firm. Bankers found it harder to say no to a piece of new business, even if it looked a bit risky or otherwise unappealing. The scramble for market share and a bigger ROE came to look almost like the cold war arms race, with Wall Street firms rolling out one innovation after another—the block trade, zero-coupon convertibles, PIPE (private investments in public companies) deals. Then, as the financial markets struggled to recover from the aftermath of the dot-com collapse of 2000, came the CDO revolution. Not only were these new products part of the largest and most liquid markets out there—the bond market and the real estate market—but financial wizards could make them even more profitable and strip out the risk as well (or so they claimed).

Innovation, says Tom Caldwell, had finally gone too far. Caldwell runs a Toronto-based investment firm and owns stakes in stock exchanges globally: his career as a trader and investor dates back to



the early 1970s, just as Wall Street began its metamorphosis. “I watched this happen, but I didn’t get alarmed until banking started becoming exotic,” he says. “Banking should be boring.” To Caldwell, Wall Street’s role remains all about providing capital to growing companies—and withholding it from others, as it has done recently in the case of the automakers or companies such as Kodak, when their leaders showed an inability to manage or to innovate. “The business of Wall Street isn’t innovating, or creating some flashy new product to boost its own profits; it’s providing the wherewithal for corporate innovation,” he argues. Whenever financial innovation—the kind Wall Street indulges in—ends by making capital less available to corporate innovators, that is when Caldwell knows Wall Street has drifted too far from its mission. “That’s what happened when the credit markets froze; it was the last sign of that trend.”

Indeed, at the height of the exotic product innovation craze in 2005 and 2006, fueled by the need of Wall Street to keep dancing while the music played, few products were being developed to help improve access to capital for companies. “It goes in cycles,” says Rob Kapito, president of BlackRock. “When we started out in this business, oh, 150 or so years ago, if we developed a new security, it had to have a purpose and it had to work the way we thought it would. It had to be something that was good enough for your mother to buy. But over time, there’s a tendency for things to go crazy, for innovation for innovation’s sake to take over.” Kapito agrees with Caldwell that Wall Street lost its way. From his years working at an investment bank before moving to the sell side (joining the ranks of those who invest in the products Wall Street creates or underwrites) at BlackRock, he figures he can identify a bond-based security that serves a purpose for the investor, as did the first mortgage-backed securities or junk bonds. The innovative products being pitched to buy-side firms such as BlackRock by 2006 didn’t qualify, he says. “If we had created a security like some of those [that are collapsing and causing large losses], we would have been fired, and the firm would have done whatever it took to make reparations to their clients.” Kapito insists.

Ultimately, innovation for innovation's sake put Wall Street in peril when investment banks began packaging lower-quality, higher-risk deals into these complex mortgage-based securities, and then using leverage to make the transactions more profitable still. As Lloyd Blankfein told the FCIC inquiry in early 2010, the average annual growth in new mortgage loans was about 6.3 percent between 1985 and 2000, but between 2001 and 2006, it had jumped to 10 percent. And subprime loans were making up a greater and greater portion of all the new lending: from 2 percent in 2002, new subprime loans soared to make up 14 percent of all new mortgages in 2008, Blankfein testified.

But then, to keep the deal machine whirring, Wall Street and its mortgage suppliers—firms such as Angelo Mozilo's Countrywide—simply overlooked the fact that they had lent all that it was prudent to lend to creditworthy buyers and moved further down the quality spectrum. They began lending more than was prudent, offering loans for 100 percent of the purchase price of a home, and reaching out to buyers with limited incomes or poor credit ratings. About 7 percent of all the mortgages repackaged into asset-backed mortgage securities in 2000 were subprime loans, or about \$74 billion. By 2004, subprime lending made up 22 percent of the market, or about \$608 billion by some estimates. True, Wall Street CEOs such as Chuck Prince, Stan O'Neal, or Richard Fuld weren't personally signing off on subprime loans or undertaking risky, highly leveraged buyouts. But their willingness to embrace that risk and their reluctance to adopt a cautious attitude toward the products on which so much of their revenues and profits now depended ensured that firms such as Countrywide pushed their own sales forces to generate more and riskier home loans.

That kind of reckless competition should have made it clear that a balance sheet blowup was looming, says financier Wilbur Ross. "When Salomon Brothers started out, they made their money trading [Treasury bonds]. Well, there's a risk in trading them, [but] it's a market timing risk, not a credit risk." When Wall Street branched out and began to rely on junk bonds and securitization to generate profits, that meant new risks. Ross adds. Every innovation

brought new risks to Wall Street. “The whole thing was getting bigger and bigger and bigger, but the basis on which people were competing wasn’t innovation anymore, because that didn’t go far enough. But you can be the biggest deal maker in the world if you don’t care, if you go far enough down the food chain.” By the autumn of 2008, Wall Street had only a handful of very large and highly innovative firms, most of which seemed to the best-informed insiders to be teetering on the verge of bankruptcy and could only be saved by an unprecedented government-organized bailout.

Wall Street, at its best, had proved to be a very good innovator, spotting opportunities and turning them into creative products that its clients needed and wanted and that generated lucrative enough fees for firms to not only survive the dog days of the 1970s but grow dramatically during the 1980s and 1990s. But chasing after fees, it was becoming increasingly clear, could be a dangerous pastime. Indeed, the more that Wall Street managed to collect in fees, the more risk lurked in the system. The wizards of Wall Street may have been very adept at devising ever more exotic and profitable twists on all kinds of classic products, but like the sorcerer’s apprentice in Goethe’s poem, they failed to realize the risk and danger associated with that financial alchemy.

Later, Wall Street observers would begin to focus on the role that innovation played in the cataclysm. Paul Volcker, the former Federal Reserve chairman, was among those who spoke out; describing the biggest useful financial machine as the automated teller machine, or ATM, he told a conference of bankers at a luxurious country house hotel in England that he wished “someone would give me one shred of neutral evidence that financial innovation has led to economic growth—one shred of evidence.”<sup>19</sup> Testifying to the FCIC a few weeks later, Mike Mayo was even more blunt. “Wall Street has done an incredible job at pulling the wool over the eyes of government and others,” he declared. Not only did the economy work just as well without CDOs, the risk “was more obvious and easy to see.” Certainly, as financial market innovation ran amok in the early years of the new millennium, the risks only increased. as new Wall Street players displaced those on Main

Street as principal clients of the investment banks, causing the Street to drift further still from its traditional role in the economy.

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## CHAPTER 3

# What's Good for Wall Street Is Good for ... Wall Street

### How Wall Street Became Its Own Best Client

Over the years that Mark Vaselkiv and Dave Giroux had worked on Wall Street's buy side as portfolio managers at T. Rowe Price, selecting investments for an array of bond mutual funds, they had become accustomed to having Wall Street bankers call or show up on their doorstep to pitch the latest structured product or market a hot new deal. So it was with a sense of something being slightly askew that the two men boarded the high-speed Acela train in Baltimore one morning in the early spring of 2005. Their destination: the New York head office of JPMorgan Chase, where they would meet with Nils, the salesman the bank had assigned to cover their account.

Vaselkiv and Giroux wanted to talk to Nils about the leveraged loans that investment banks such as JPMorgan Chase were issuing at an ever more rapid clip to help private equity funds finance their ever-growing string of buyout transactions. Loans of this type are the least risky investment to own since they rank above bonds or stocks in a company's capital structure; in the event of a bankruptcy, lenders have first claim on assets. But the Federal Reserve's commitment to fighting a recession in the wake of the dot-com bust and the 9/11 terrorist attacks meant that interest rates had remained at rock-bottom levels for so long that the world was awash in money. With every day that passed, it was becoming harder for investors such as Vaselkiv and Giroux to find bonds to

buy that offered a yield high enough to offset the potential risk of the investment. Vaselkiv thought that leveraged loans just might be part of the answer to this conundrum.

The T. Rowe Price managers were hardly minnows in the fixed-income world. Together, the two men managed about \$25 billion of investor funds; Vaselkiv figured that that should help them win a share of some of the leveraged loans. Even better, he calculated, was the fact that T. Rowe Price bought bonds and other products and held on to them for longer-term returns; the firm's investment managers didn't try to capture profits by trading them rapidly, as hedge funds tended to do. Historically, being an owner rather than a trader has been a desirable trait in the eyes of Wall Street when it has been trying to match up companies in need of capital with the right kind of investor. Still, Vaselkiv couldn't quite shake a sense that all was not quite right with the picture. What was he doing, boarding a train to visit a salesman to ask for access to a product that in prior years the same salesman would have been pleading with him to purchase?

It was odd, especially since Vaselkiv calculated that JPMorgan Chase probably could use some new buyers for these loans. The recent buyout boom had left companies carrying outsized amounts of debt on their balance sheets, and the economic environment was starting to wobble amid sky-high energy prices and rising interest rates. "The buyouts were getting larger, the loans were getting bigger, and we all anticipated that at some point defaults would rise," Vaselkiv says. "No question, the cycle would come to an end." That was just why he was interested in owning the loans, rather than the more readily available junk bonds: in that kind of scenario they would hold their value better. "By the same token, we figured that the investment bank would be interested in us as a new client."

On their arrival in New York, Vaselkiv and Giroux traveled across town from Pennsylvania Station to JPMorgan Chase's Park Avenue offices. They sat with Nils, their salesman, and made their pitch: T. Rowe Price, one of the largest mutual fund investment groups in the country, was eager to become an investor in leveraged loans. It should have been the answer to a Wall Street salesman's prayer.

Vaselkiv, however, was left dumbstruck by the response. “I’ll never forget this, to my dying day; he looked at me and said, ‘We don’t need you,’ ” Vaselkiv recalls. This was no pleading Wall Street salesman: The shoe was now on the other foot. Vaselkiv realized now what had been bugging him about the idea of the trip to New York in the first place: He and his firm, which managed hundreds of billions of dollars of assets, had had to bang on the bank’s door and ask humbly to be considered as a worthy buyer. Not only had he done so, but he and T. Rowe Price had been rejected out of hand.

Wall Street had changed: Giant investment firms such as Fidelity and T. Rowe Price were now less important to an investment bank than were smaller but more profitable hedge funds, which generated more trading fees and made buy decisions faster than the old-style mutual funds. Nils explained to Vaselkiv that JPMorgan Chase had about twenty-seven collateralized loan obligation (CLO) products in various stages of development. “Each and every one of those [leveraged] loans would go into those products, which in turn would be resold,” Vaselkiv recalls. “He said there wasn’t going to be any product for people who asked as many questions about a deal as we did.” T. Rowe Price, the seventy-year-old \$400 billion behemoth, had just been royally dissed by a mere salesman.

But Nils was right. JPMorgan Chase didn’t need the traditional buy-side clients nearly as much as it had a few years earlier; neither did the other Wall Street institutions. Nor did these investment banks rely nearly as much on their classic corporate finance clients, companies such as Coca-Cola or Verizon that were on the other side of the money grid from investors like T. Rowe Price. These Main Street clients still called on Wall Street firms to help them raise capital or advise on merger transactions, but their significance paled when compared to that of the giant buyout funds. In the 1980s, making the plain-vanilla loans to those big Main Street clients had still generated the vast majority of JPMorgan’s profits; but by the mid-1990s, that picture had changed irrevocably with fees from trading and investment banking—and increasingly, from derivatives—generating \$3 out of every \$4 in profits. In 1997, only about 2.3 percent of the IPOs Wall Street firms underwrote were done on



behalf of a buyout firm. A decade later, in 2007, nearly 30 percent of the IPOs completed were done for companies held in the portfolios of buyout funds such as KKR that were using the IPO as a way to begin to sell their holdings in the company. KKR, the Blackstone Group, and other such firms also turned to Wall Street to raise capital to finance their leveraged buyouts; as the buyout industry's deal making exploded, so did junk bond issuance. In 2000, the average junk bond deal brought in a mere \$881,300 in fees for its underwriter; by 2007, the average deal was worth \$2.45 million to bankers. In 2005, the year that Vaselkiv and Giroux made their pilgrimage to JPMorgan Chase in search of leveraged loans, those transactions—nearly a thousand of them across Wall Street as a whole—generated an average of \$3.5 million in fees.<sup>1</sup>

Only later, in revisiting the events of the decade while testifying to the FCIC, would Nils's ultimate boss, Jamie Dimon, concede that the bank got carried away. "We should have been more diligent when negotiating and structuring" leveraged financing commitments for clients, Dimon said, referring to those loans themselves. "We allowed the lending terms to create too much leverage and assumed too stable a market appetite for these types of loans." Or perhaps they were simply targeting those leveraged loans at the wrong part of that market? But then, back in 2005 and 2006, the buyout funds seeking the leveraged financing, and the hedge funds that bought the CLOs containing the loans, were the bank's biggest clients. Why would that change?

"Let's face it, if you asked J.P. Morgan or Goldman Sachs who their best and most profitable clients were in 2006 or 2007, well, the answer you'd get wouldn't be Lockheed Martin or General Electric," says the manager of one large hedge fund. "The names you'd hear would be KKR or Citadel. Because how many deals or different kinds of deals is a Lockheed going to do in a year? Whereas KKR, well, they do a deal and they'll be back in a few weeks to do another one." And underwriting the junk bond and leveraged loan issuance to finance those deals was just the tip of the iceberg by that point. In addition to those fees, a private equity fund could generate bridge financing fees, deal advisory fees, and

down the road, IPO fees when the buyout firms exited their portfolio companies (at a profit). In between, there was plenty of opportunity for an investment bank to step in and grab a few million more in fees here and there, in exchange for advising a buyout portfolio company on how to pay out a special dividend to its new owners (a quick way for the latter to book a return on their acquisition) and then for executing that transaction.<sup>2</sup>

Hedge funds, it was also clear by the beginning of the new millennium, could generate similarly lucrative fees for Wall Street in exchange for different products and services. These “go anywhere, buy anything” investment vehicles had become increasingly popular during the 2000–2002 market slump, and their assets under management exploded from the late 1990s onward, despite the collapse of hedge fund Long-Term Capital Management. By 2007, a study by Greenwich Associates, a consulting firm, showed just how important they had become to Wall Street. Hedge funds, unlike mutual funds, usually weren’t long-term investors looking for steady sources of return; rather, with hedge fund managers pocketing their fees (20 percent of every dollar of profit earned goes straight to the fund’s managers) at the end of every year, they preferred short-term gains and didn’t care how many trades it took to earn those returns, as long as the turnover didn’t erode returns.

Although hedge funds made up only about 20 percent of all buy-side assets under management (other players included pension funds, college endowments, and mutual funds such as T. Rowe Price), Cambridge Associates calculated that the group was responsible for nearly a third of all trading in the bond markets by early 2007, double the level of only a year earlier. That meant that hedge funds were generating a disproportionate amount of the fees Wall Street trading desks were earning. (Vaselkiv’s pledge to be a buy-and-hold investor of leveraged loans was probably the last thing that any Wall Street firm involved in trading wanted to hear.) They were even more important to Wall Street in the smaller parts of the bond market, areas where the market is less liquid and trading harder to do. meaning that investment bank trading desks

could command higher fees for facilitating those trades. Cambridge Associates reported hedge funds accounted for 55 percent of the trading in both investment-grade derivative products and bonds issued in emerging markets.<sup>3</sup> When it came to distressed debt and derivatives with low credit quality and high yields, hedge funds ruled the roost, accounting for 80 percent to 85 percent of the trading volume.

No wonder, as Greenwich Associates pointed out, that Wall Street was now trying to devise products that would appeal directly to hedge funds. The leveraged loans that Vaselkiv had been eyeing were the result of the Street's efforts to attract not one but two important new constituencies: the buyout firms, who needed to issue them to finance their deals, and the hedge funds, who found the loans interesting and profitable to buy and trade. Nobody really needed Mark Vaselkiv.

## Turning Wall Street on Its Head

At times, it almost seemed to some bankers that private equity funds and hedge funds had been sent to them by the gods of finance to meet their insatiable need for fee income. Why would anyone be at all surprised that hedge funds were getting red carpet treatment? wonders Leon Cooperman, a former Goldman Sachs partner who set up his hedge fund business, Omega Advisors, back in 1991. "It's like Willie Sutton said when he was asked why he robbed banks—that's where the money was. Why did Wall Street get all excited about this business? That's where the money was!"

Certainly, Cooperman wasn't surprised to see Wall Street begin to tweak its business model to better accommodate these new and very lucrative clients. Investment banks, led by Bear Stearns and Goldman Sachs, packaged up all the services that hedge funds needed under the umbrella of new, dedicated teams that were known as prime brokerage groups. (The name of these groups came from the idea that it made sense for a hedge fund to have one "primary" banking relationship: to rely on one bank for services

such as tracking its positions, monitoring its collateral, clearing, and other services.) Most of the largest investment banks, led by Goldman, JPMorgan Chase, Citigroup, and Morgan Stanley, also created sponsor groups. These teams of generalist bankers were dedicated to serving buyout funds with whatever they needed to put a deal together, coordinating all the specialist bankers and financial wizards who could structure deal terms.

In the early 1990s, very few investment banks had prime brokerages; by 2000, they were ubiquitous and nearly as many had sponsor groups working with their buyout fund clients. Now that the banks didn't make these big private equity clients run from one industry banking team to another, depending on whether their next deal involved an industrial conglomerate or a new computing venture, they could vie for the loyalty of this attractive group of clients more effectively. "There was a need," explains Tom McNamara\*, who works as a midlevel banker at one large bank's sponsor group. "The day-to-day business of these guys was doing deals. Serving them is going to be different from serving a widget maker who is only going to do a deal once a decade. There's a big difference between a widget maker's strategic deals and the opportunistic ones that a sponsor will do."

Ever since the 1980s, Wall Street had been in the habit of paying more heed to the needs and wishes of investors than to those of the widget makers on the other side of the transactions that it helped to execute. "It was, has always been, and always will be a case of he who pays the piper the most gets to call all the tunes," says former Morgan Stanley banker Lou Gelman. The pattern was set when Michael Milken priced junk bond deals in a way that rewarded his group of dedicated investors rather than the companies that needed to raise capital; companies were just pleased to have been able to complete the financing. The logic behind this buy-side power was solid: there were relatively few specific deals that a mutual fund manager or pension fund manager had to buy; companies such as Netscape or Google were the exceptions that proved that rule. So while companies trying to raise capital needed their Wall Street underwriter slightly more than the latter needed them, the same

wasn't always true of money managers. Wall Street couldn't annoy a Fidelity, or even a T. Rowe Price, without feeling some pain down the road. "It was very critical to have a very high market share in those institutions, because 80 percent of your business was being done with 20 percent of your clients," says Rob Kapito, president of BlackRock.

Right up into the 1990s, it was firms such as T. Rowe Price that were still paying the piper and calling the tune. That's one reason so many of the IPOs of that decade were priced with plenty of room for the price to pop a few dollars on the first day of trading. When that happened, it was an instant winner for the investors who had just paid \$15 a share to acquire the stock in the IPO, and who could now sell it for \$18 or so the next day, a strategy referred to as a flip. That was great for buy-side clients, but, as noted earlier, at the height of the dot-com boom it left more than a few of the companies feeling as if they had accidentally handed a cabbie \$50 on a \$10 fare, and not been offered any change.

The buy-side client—the investor—was the Wall Street client who was there day in and day out, generating fees for investment banks through their trading. Even before the days of hedge funds, the buy side knew how to throw its weight around: a company such as Fidelity wouldn't even promise to hold on to newly issued stock for any length of time, reserving the right to flip some of their shares in a particularly successful IPO for a quick profit. So when Wall Street investment banks began bending over backward to keep the new group of power players—hedge funds and private equity funds—happy, no one was too surprised. But these power players were different. Often run by former bankers and traders, they were really part of Wall Street itself, and had developed business models that relied on deal making alone to generate profits. Buyout firms were consuming capital not to make cars or finance biotechnology research but to acquire companies that they would try to resell for a profit later on. Hedge funds weren't investing the retirement savings of the average American citizen for the long haul but instead were trying to make as many quick bucks as possible. These were more than just new names: they were an entirely new breed of client who

knew how to extract every ounce of value from Wall Street. “You knew when you were sitting across the table from a [buyout firm executive] that you are about to negotiate with someone who used to be a banker,” says McNamara. “And you know that his repeat business is going to be so valuable to the next guy on his list that you’ll do whatever it takes to accommodate him.”

Jeff Arricale, a T. Rowe Price portfolio manager who invests in financial stocks such as insurance companies and investment banks for the firm’s mutual funds, understands this trend intellectually. But that doesn’t mean it’s easy to cope with. “The investment banks know very well that we’re never going to call them up and say, ‘Thanks, you did a great trade for me, here’s a check for \$50,000,’ ” he says, laughing at the very idea. “But a hedge fund manager will do just that—and be back the next day for more. And to get hold of that guy, the dude on the trading desk at Goldman or Morgan Stanley or wherever just has to make a single phone call.” In contrast, getting a T. Rowe Price portfolio manager to act on a trading idea might require multiple phone calls and a lot of patience and effort on the part of the Wall Street trader. “Realistically, what we might pay him months later would never be enough to get this guy promoted,” Arricale acknowledges. “We keep a close eye on those expenses.” In contrast to hedge funds, firms such as T. Rowe Price are doing all they can to reduce their reliance on Wall Street and its endless demands for fees, building their own trading desks and research divisions.

So the fact that with each year that passed Wall Street was paying more and more attention to its hedge fund and private equity fund clients was little more than the financial markets version of Henry Kissinger’s realpolitik, akin to the former secretary of state’s decision to open diplomatic relations with Mao’s China. That kind of pragmatism is what Wall Street is all about, and T. Rowe Price’s managers understand and accept the logic that led Nils at JPMorgan Chase to reject them out of hand as potential investors for the leveraged loans. What did worry them was the combination of the nearly monomaniacal focus by Wall Street investment banks on their Wall Street clients and the investment banking industry’s

constant need to boost revenues and profit margins. If carried to extremes, this could mean that Wall Street's role as the money grid would take a backseat to the pursuit of profits for their own sake.

Increasingly, Wall Street's newest products fit the needs of the banks issuing them or the Wall Street players, such as the hedge funds, that bought most of them. Many mutual funds didn't want to touch some of the securities that Wall Street was devising; unlike classic bonds, the new products didn't have terms that required the issuer to maintain certain minimum credit standards. In some cases, the company issuing the bonds had the option to finance its regular interest on that debt by issuing more debt, a feature known as a pay-in-kind option and about as appetizing to a mutual fund manager as a dose of cod liver oil. (Indeed, by mid-2008, rating agency Standard & Poor's was already predicting that investors in these securities were likely to recoup only 10 cents on the dollar.) And how, critics wondered, could ordinary individuals saving for retirement be considered logical buyers of highly structured CDOs? By 2007, however, Wall Street firms such as Bear Stearns and their hedge fund partners—firms such as Highland Capital Management—had begun spinning off some of the least attractive CDO structures in products aimed at just those mom-and-pop investors, hoping that they would overlook the warning signals contained in the prospectuses.<sup>4</sup>

Meanwhile, mutual fund managers such as Arricale could see deals in which they did want to invest going to other, more favored Wall Street clients. "There was a company whose stock we had owned for four or five years; we were the third-largest shareholder," Arricale recalls. "They came back and raised more equity through a follow-on stock offering, and obviously we wanted to participate. Then we get the call from the underwriters telling us, 'Congratulations, you got 6 percent of the shares you requested.' And you know in your heart that wasn't a good deal for anyone except the bankers."

Arricale insists that he doesn't feel entitled to stock in deals he likes. "But when I saw the list of where the new stock went, and saw that nearly all of the top ten accounts on that list were the

names of hedge funds, well, there's no way that's in the issuer's interest, either," he says, thumping his desk with his fist. "Come on! This is a hedge fund! What are the odds they'll be around in four weeks, much less four months or four years? They're looking for a quick flip! But they're also the guys waving the big stick. Not only do they generate the trading fees, but if they don't get what they want, they'll move all their prime brokerage business over to Lehman Brothers."

Working on stock underwritings and other corporate finance transactions at a series of investment banks, Peter Blanton found that his corporate clients weren't any happier about this trend. Often he'd have to break the news to clients that even if they didn't want hedge funds to end up as their biggest shareholders, there wasn't much that he or they could do about it. "The clients would tell me, 'I just want the [buy-and-hold] guys, like the mutual fund managers or the pension funds,' " says Blanton. "But the hedge funds were making their way into the new issue market as buyers, and that was just reality." Hedge funds came to completely dominate the market for convertible securities, in particular, thanks to the special characteristics of these "converts." A convertible security is faster and easier to sell to investors than stock; it looks like a bond (because it offers regular interest payments), but down the road investors can exchange it for shares at a set ratio of so many shares per \$100 convertible security. Those features—the income and the ability to swap it (convert it) for stock—make convertible securities particularly intriguing to hedge funds. With their trading expertise, hedge fund managers could place complex but profitable bets involving both the convertible security and the stock; the most common of these arbitrage strategies involved selling the stock short. Owning the convertible securities gave them an indirect stake in the company's stock; selling the stock short outright was simply a way for the hedge fund to manage its risk and maybe capture a bit more profit.

But companies that had issued convertible securities in order to raise new capital weren't happy about the unintended consequences. They didn't want hedge funds to buy these securities



if it meant that the funds' next move would be to sell the company's stock short. After all, an increase in short selling not only put downward pressure on the stock price but was tantamount to a public declaration of lack of faith in the company's business or prospects; only very well-informed or sophisticated investors would figure out that the short selling had nothing to do with a lack of confidence and that the hedge funds were merely hedging the exposure associated with owning the convertible security. "There was a period where we'd have to soft-talk the issuer, point out that they'd need hedge funds" to make the deal a success, Blanton says. It took time for the companies to accept the inevitable, although the fact that hedge funds were willing to accept lower interest payments and to quickly commit their capital to a deal helped; companies could now raise capital more rapidly and cheaply.

In the eyes of Wall Street, classic buy-side managers such as Arricale, Vasselkiv, and Giroux were small fry compared to buyout and hedge funds, nitpicking over trading fees and increasingly trying to squeeze already razor-thin trading margins even more. These mutual fund buyers that companies claimed to want as investors could take days or weeks to commit to a deal. Wooing them also meant taking the underwriting client on a four-day road show to visit key investors in cities such as Boston, Baltimore, and Los Angeles in person, an expensive and time-consuming proposition. Why bother, irritated investment bankers wondered, when the hedge funds were willing to just sign on the dotted line?

"Wall Street got to the point, eventually, where it figured it didn't need Main Street, except for the firms like Merrill Lynch, which could use their retail networks as a way to get products out the other end," muses Harvard Business School's Sam Hayes. Although his students have included some of the biggest architects of the buyout and hedge fund universe—including the late Bruce Wasserstein, Joseph Perella, and the Blackstone Group's Stephen Schwarzman—Hayes isn't blind to Wall Street's errors of judgment in catering too slavishly to this group. "There's a kind of social contract that is implicit in the relationship between Main Street and Wall Street," he argues. "Wall Street has to produce a sense of

financial well-being in the shape of a rising stock market, or it will generate a terrible sense of envy [on Main Street] of what will be seen as the obscene profits and compensation that Wall Street is earning for catering to these other groups who aren't seen as part of Main Street."

Dealogic data show that by 2005, when Vasselkiv and Giroux called on Nils, about a quarter of Wall Street's investment banking fees were coming from private equity deals, while 40 percent of the trading fees Wall Street institutions were earning came from executing trades for hedge fund clients. By some estimates, there were now more than eight thousand hedge funds in existence, double the number of only five years earlier, and their managers were in charge of more than \$1 trillion in assets, more than three times the level estimated five years previously. Both hedge funds and buyout funds had been important Wall Street clients since the 1980s—firms such as KKR and Blackstone on the private equity side and hedge funds run by veterans with impressive long-term track records, such as George Soros and Julian Robertson. But by the dawn of the twenty-first century, these players were not only more numerous but more significant. Wall Street, in the form of these entities (most run by former bankers and traders), had become its own most important customer, generating the lion's share of investment banking fees and using that influence to even dictate the shape and nature of the transactions that were done.

"In 2003, when I started my MBA program, everyone in the class wanted to be in mergers and acquisitions when they graduated," McNamara says. "By the time we finished, everyone was eager to work for a sponsor group or, as a second best, the prime brokerage group." Today, thanks in part to the havoc wreaked by the toxic combination of cheap capital, innovation run amok, and overaggressive deal making by a Wall Street that had forgotten its traditional client base, McNamara admits that he and other bankers just want a job—any job at all.

Leaving Goldman Sachs?

With the benefit of twenty-twenty hindsight, one can identify the first sign that a fundamental change was in the making. That was the year that thirty-six-year-old Kevin Conway turned down the offer to become a partner at Goldman Sachs, becoming only the second person to do so in the firm's 125-year history. Goldman had been confident enough that Conway would join the partnership to include his name in the list of all the new partners in a newspaper ad. But two days later, Conway left egg on the face of Goldman's management when he announced that, rather than take up the partnership, he planned to leave the investment bank and join the ranks of buyout firm Clayton, Dubilier & Rice.

The gossip spread like wildfire. Turn down a partnership at Goldman Sachs? That was akin to deciding that you'd rather stay in the minor leagues than take a job as a starting pitcher for the New York Yankees. Who in his right mind would do such a thing? Contemporary newspaper accounts explained the move as a result of Conway's concern about the personal risk he would be assuming in becoming a partner at any investment bank: joining the partnership at Goldman, which wouldn't go public for another five years, meant that Conway, like his peers, personally would take on a share of the firm's liabilities. But that had never frightened anyone away before; after all, partnership had almost invariably proven to be a ticket to the top of the investment banking world, and to wealth.

But 1994 was a bumpy time in the financial markets, one of those years that proved life on Wall Street wasn't always a bed of roses. A series of surprising and surprisingly large interest rate hikes in the early spring and summer had wreaked havoc on financial markets; later in the year came a crisis in emerging markets that culminated in the devaluation of the Mexican peso. Goldman Sachs partners were defecting at a record rate—by the end of the year, about a third had left for greener pastures. But Conway's decision still astonished Wall Street. It was one thing to leave Goldman and go off to do something else—politics, say, as Bob Rubin had done and Jon Corzine would do later. or philanthropy. It was also

understandable and acceptable to move on to start a new business, as Leon Cooperman had when he launched Omega after retiring as chairman and CEO of Goldman Sachs Asset Management. But to curtail a career at Goldman so early on, voluntarily, in favor of moving to a private equity firm? Wall Street gave an almost visible shudder of alarm.

For most of the Street's existence, investment banks had been admired and respected institutions; the young bankers who got a toehold on the bottom rungs of the ladders at the top-flight firms were envied by their peers who had to settle for a regional or second-tier firm such as Jefferies & Co. Premier institutions such as Goldman Sachs had become career destinations in their own right. But Kevin Conway's decision to bolt from an elite firm and go to a private equity firm, of all things, would signal the beginning of the end of Wall Street's ultra-elite status. Increasingly, for the Kevin Conways of Wall Street, working for a top investment bank was no longer an end in itself but simply a stepping-stone to something still better. And what was better? In the eyes of aggressive young bankers and traders, more and more that was defined as working for an elite private equity firm (KKR, say, or Blackstone, or even Clayton, Dubilier) or joining a top-flight hedge fund.

By the new millennium, the goal was to be the next Eric Mindich. Mindich was Wall Street's version of Doogie Howser, the lead character in a television comedy whose plot revolved around Howser being both a normal teenager and a genius who, before he gets his driver's license, has already become a surgeon. After becoming the youngest partner at Goldman Sachs in that firm's history (at the tender age of twenty-seven) in the same year that Kevin Conway departed for the world of private equity, Mindich stuck around at Goldman for another nine years before leaving to start his own hedge fund based on the risk arbitrage tactics that he had learned at Goldman (in the group formerly headed by Bob Rubin). Mindich raised what was then a record of \$3 billion for a start-up fund, despite his insistence on relatively onerous terms: to get access to the fund, his limited partners had to be willing to tie up at least \$5 million of their capital for nearly five years (at a time

when investors in most funds could get their capital back on a few weeks' or months' notice).

Mindich became what all savvy young traders want to be—a multimillionaire who hangs his hat in a Park Avenue co-op building with neighbors such as newsman Mike Wallace. Certainly Mindich couldn't have done that well that quickly toiling away in the (relatively) bureaucratic world of Wall Street. In 2007, his personal share of his new hedge fund's profits was nearly three times what his former boss, Goldman Sachs CEO Lloyd Blankfein, took home—about \$200 million, compared to Blankfein's \$68 million in salary and bonus. And Blankfein was Wall Street's most richly paid CEO ever that year.

As the years passed, former Morgan Stanley banker Lou Gelman observes, "The best people tended increasingly to see Wall Street as a great place to learn and to forge relationships, and then to leave." (Gelman himself bolted for the hedge fund world in the late 1990s.) "Wall Street, instead of being the folks cracking the whip in the relationship with everyone else, would become more and more under the control of these new Wall Street clients. You just couldn't afford to say no to them." Perhaps not coincidentally, it was also in 1994 that Goldman set up its own dedicated sponsor group to serve the buyout funds.<sup>5</sup>

The increasing prominence and, ultimately, dominance of both hedge funds and private equity funds can be traced to the concept of alpha. In finance, the Greek letter becomes a word that signifies an investment return that is due only to the manager's skill rather than to what the broader market is doing. A portfolio manager who earns 11 percent in a year when the major stock indexes are up from 10 percent to 12 percent is said to earn a return that is mostly beta; she is benefiting from the rising tide of the markets lifting all the portfolio managers' boats. But in a year where an index is up only 5 percent and a manager succeeds in posting a 15 percent return—or whenever the broader markets post losses but an investor generates a positive return—that is alpha. And by the end of the 1990s, the pursuit of alpha made the quest for the holy grail look like child's play.

## Chasing Alpha

Investors of all stripes, it turned out, were in dire need of alpha. The biggest among them—pension funds such as CalPERS, the behemoth that oversees the retirement savings of California’s state employees, or Yale University’s endowment—were run by managers whose all-encompassing goal was finding a stable, steady source of investment returns not tied to what stocks and bonds were doing in any given calendar year. In search of investments that would zig when the U.S. stock market zagged, these powerful players had begun investing in emerging-market bonds, timberland, Chinese stocks, oil well partnerships, real estate in Dubai, and commodities: they were all in quest of alpha returns. Every stock market slump—in 1987, in 1989 and 1990, again in 1994, and briefly but violently in 1997 and 1998—reinforced the importance of having exposure to assets that didn’t behave the way the broad market did. The larger and longer-lasting three-year bear market of 2000 to 2002 was when hedge funds, for instance, really caught fire: during that period, their number jumped more than 25 percent, while their assets under management surged 42 percent. While mutual fund managers struggled, many hedge fund managers continued to post positive returns. Hedge funds had an edge over many other “uncorrelated” investments—in contrast to, say, five hundred acres of farmland, the investment in the hedge fund was liquid (at least initially) and relatively easy to value. If an investor wanted to leave, all he had to do was request his money back at the prevailing market value. (As hedge funds became more powerful, however, managers followed Mindich’s lead by imposing more onerous lockup periods that meant that liquidity proved more illusory in practice.)

For investors, the allure of hedge funds lay in their go-anywhere approach to financial markets. Their name implies that these managers spent their time hedging, or finding ways to limit the risk of one investment by taking another market position. (One example

of a hedge might be investing in the stock of a company that makes most of its money producing crude oil; to address the risk that a slump in crude oil prices will hurt the stock, an investor might sell crude oil futures short. If crude falls, he would hope to make up in profit on the oil futures what he would lose on the stock bet.) In practice, the thousands of hedge fund managers today pursue far more varied and complex strategies than simply hedging. Some structure complex positions revolving around actual or potential merger transactions involving public companies, shorting one company involved in a deal while owning the stock in another, a strategy known as merger arbitrage or event-driven investing. Others use convertible securities, which combine elements of stocks and bonds, and employ different strategies to capture any difference in value between these and the stock of the company that had issued them. Increasingly, a hedge fund manager was simply an investor who acknowledged no restrictions on where he could invest, how much he could borrow to try to magnify his returns, the extent to which he could use derivatives, or how much he could put to work in a particular stock or industry.

This go-anywhere, do-anything approach was appealing to investors, who felt that skilled managers able to anticipate twists and turns in financial markets should be able to use whatever products and strategies were available to make money regardless of what asset class was winning. Relative outperformance was appealing only in a bull market. Who wanted to own the best large-cap mutual fund in a year when stocks as a whole were in the doldrums? As the Wall Street saying has it, you can't eat relative returns. While mutual funds were restricted to buying, owning, and later selling a specific kind of stock (say, small-cap value shares), a hedge fund manager could do anything he wanted with his investors' money, as long as he spelled out his general strategy in advance. He could invest at home or abroad; he could focus on stocks, bonds, or more exotic instruments; he could buy and hold or sell short; he could borrow to buy and generate leveraged returns; in short, he could be a real master of the financial universe.

"The first time you saw this pattern develop was in the

commodity trading advisor [CTA] world during the eighties,” says Glenn Dubin, cofounder of Highbridge Capital, a hedge fund empire that he and childhood friend Henry Swieca built and later sold to JPMorgan Chase. (Dubin and Swieca still run the show.) In the mid-1980s the two partners teamed up to create a series of portfolios combining CTA multistrategy funds with funds that invested in stocks and bonds. “The first big eye-opener for investors probably came during the 1987 crash,” Dubin muses. “Soros, [Bruce] Kovner, and all the other guys who were short stocks and long bonds when that happened made a killing, while the long-only guys got pummeled.”

Then in 1990 came the first Gulf War; that and the recession that followed seemed to prove that hedge fund managers could make money from anything, in any environment. “You could [own] crude oil futures in the months leading up to the Gulf War, as the supply fear drove prices higher, then short it when the guns started going off, for instance,” says Dubin. “Suddenly stocks are plunging and traditional asset managers are losing their shirts, but the global macro hedge fund guys like Soros and Paul Tudor Jones and Kovner are all up enormously as a result of their positions.”

The “lost decade” for stock and bond market investors in the first part of the new millennium just confirmed that hedge funds provided alpha, in the eyes of some data providers. The Hennessee Group, one of those market analysis groups, proclaimed that while the S&P 500 Index had plunged 23.33 percent over the course of the ten years between January 2000 and December 2009, the Dow Jones Industrial Average had lost 9.3 percent, and the NASDAQ Composite Index had nosedived 44.24 percent, its proprietary hedge fund index had gained 88.3 percent in the same period. Skeptics may point to the flaws associated with performance tracking in the hedge fund industry, such as survivor bias, but to advocates of alternative investments, results like that spelled one thing: seeking alpha in the form of alternatives, like hedge funds, is the way to go.

By the time hedge fund managers were attracting widespread attention, private equity funds were already well established. One



of the first firms into this new business was KKR. As a corporate banker at Bear Stearns in the 1960s and 1970s, Jerome Kohlberg devised debt-financed exit strategies for small to mid-sized family-owned companies, deals he referred to as “bootstraps.” When Bear Stearns was reluctant to give Kohlberg and his protégés Henry Kravis and George Roberts the capital to establish an in-house fund dedicated to these new transactions, the trio bolted to form KKR in 1976.

The rest is history. KKR landed its first institutional investor (an Oregon state employee pension fund) in 1978, and by the mid-1980s the partners were conducting multibillion-dollar management buyouts of companies such as Safeway and Beatrice. The battle royal for ownership of RJR Nabisco in 1988 proved to Wall Street just how attractive private equity clients could be; the \$31.1 billion deal, the outcome of a titanic battle between KKR and a rival group led by RJR Nabisco’s CEO along with an investment bank, earned the numerous Wall Street firms involved an estimated \$1 billion in fees.

Both private equity funds and hedge funds raised funds privately, from what regulators like to call “accredited investors” and what the rest of us tend to refer to as rich people and sophisticated institutional investors. In other words, unless you have at least a million or two in investable assets (realistically, much more, since even the smallest of these funds likely won’t even take your phone call unless you’re worth \$15 million or more and can spare at least \$1 million for their fund), don’t bother trying to get inside the golden circle. Investors, referred to as limited partners, tie up their capital in a private equity fund for a decade or so. In the early years of a fund’s life, its general partners (the managers at funds such as KKR) spend their time hunting for deals and investing and then find ways to exit at a profit. (As of this writing, KKR has raised about fourteen different private equity funds over its life span.)

The long-term secular decline in interest rates throughout most of the 1980s and 1990s fueled a boom in the leveraged buyout business, making financing relatively cheap and helping private equity funds reward their investors with outsized returns. By mid-

2008, KKR estimated it had invested about \$43.9 billion and earned \$60.1 billion in profits from those fourteen funds; another \$27.5 billion of profits were still on paper because the investments hadn't yet been sold. It also revealed that its average annual internal rate of return (IRR, the most commonly used measure of investment returns used by private equity investors) was a whopping 26.2 percent during a period when investing in the Standard & Poor's 500 index would have earned the same investors about 8.8 percent a year.<sup>6</sup> With that kind of track record, it was little wonder that investors didn't balk at the fact that it could take years before KKR and other buyout funds would achieve those returns and pay them their share of the profits. In fact, while once investment managers who had run portfolios stuffed with illiquid assets that couldn't be quickly sold for a price close to their fair value—like those of a private equity fund—charged their investors lower fees to compensate for the lack of liquidity, now the magnitude of those returns (all that alpha!) meant that firms such as KKR could command premium fees. While a mutual fund might charge a flat 1.25 percent management fee, KKR could levy a 2 percent fee—and collect 20 percent of any profits, to boot. In the eyes of investors, illiquidity was no longer a risk, but simply the price one paid for alpha.

Hedge funds adopted a similar compensation scheme. But while private equity investors didn't get their 20 percent share of the profits until after the investments in their portfolios were sold, hedge fund managers could become very wealthy very quickly through what is known as mark-to-market accounting. At the end of every fiscal year, the assets in the hedge fund are valued, and the manager typically pockets a fee equivalent to 20 percent of those paper gains without having to liquidate the portfolio. (That compensation scheme is, in the eyes of some private equity investors, responsible for some of the aggressive risk taking on the part of hedge funds; as long as the transaction worked in the short run, hedge fund managers could become wealthy regardless of what happened to their investors over the longer haul.) By the mid-1990s, the prospect of easy riches enticed a steadily growing

procession of bored, frustrated, or fed-up traders to walk away from their investment banks and set up shop on their own.

At first, explains Patrick Adelsbach, a principal at Aksia, a hedge fund advisory group, who has studied hedge funds since the early 1990s, these traders invested their own money, the fruits of years of big bonuses, and brought in some family and friends as fellow investors. Those who were successful quickly earned a reputation as stars and went on to establish a more formal structure. By 2000 or so, skilled traders with an idea for a new niche strategy were leaving investment banks at a rapid clip to set up their own shop; Goldman's IPO in 1999 spawned a particularly large batch of new hedge fund managers, including, ultimately, Eric Mindich. "It seemed almost as if these guys were afraid of being left out of the biggest party around if they didn't leave and start a hedge fund," says Anna Pinedo, a partner specializing in securities law at Morrison & Foerster, a national law firm. With each year that passed, the new funds became larger; in the late 1990s, a significant debut fund could have \$100 million to \$200 million in assets, but by 2002 or so, a manager needed to have \$300 million to even get the attention of Wall Street's traders and the burgeoning prime brokerage industry.<sup>7</sup>

Wall Street had long recognized the potential for hedge funds to become a big new source of fees. Bear Stearns was one of the first, using its expertise in the relatively unglamorous business of clearing trades (making sure that they are properly executed and documented) to move up the food chain and provide other services to hedge funds, including record keeping and lending them the stocks they needed in order to sell short. Other firms caught on quickly; by the early 1980s, Morgan Stanley was providing one-stop shopping for Julian Robertson's Tiger Fund as well as for George Soros, while Goldman Sachs dealt with the needs of another top hedge fund manager, Michael Steinhardt, within what was known as their personal client services division. These ad hoc services formed the basis of the prime brokerage groups.

The earnings power and clout of Goldman's new prime brokerage business. Global Securities Service (GSS). grew in tandem

with the hedge fund industry itself. The business was so profitable that soon employees in GSS without MBA degrees were outearning those who did possess the coveted degree but who toiled away in higher-profile but less profitable parts of the firm.<sup>8</sup> The good times only got better in the coming years as the hedge fund industry's explosive growth continued, peaking at 9,550 funds managing a cool \$1.535 trillion in assets by mid-2007. Best of all, because hedge funds needed the services so much—and were raking in so much money in management and incentive fees—they didn't balk at paying the bill for prime brokerage services. Finally, it seemed, Wall Street had found a product that couldn't be easily commoditized and that maintained its profit margins. Despite the growing competition from the mid-1990s onward, Goldman Sachs, at least, found that its prime brokerage fees slid a relatively modest 20 percent, an amount it could easily recoup from the massive growth in volume.<sup>9</sup>

Using these new prime brokerage businesses, investment banks set out to do everything they could to smooth the path for traders hoping to launch a hedge fund, facilitating the industry's explosive growth. "The average bank had a turnkey solution for any manager who wanted it; he'd show up at one of the more sophisticated prime brokers like Goldman or Morgan Stanley, and the guys there would find him office space, help him set up his computer technology, even help him order his office furniture," says Adelsbach. They'd also introduce the fledgling manager to potential investors, offering what they dubbed "capital introduction services." (Among the beneficiaries was Galleon, the now-defunct hedge fund group whose CEO was convicted on insider-trading charges in mid-2011: Goldman offered its assistance in meeting potential investors.) The pitches walked a narrow line between what was legal and ethical and what wasn't; funds would be invited to attend high-profile conferences where they could set up booths in the exhibit halls or brokers would help a new manager arrange a series of meetings with potential investors. The very fact that Goldman or Morgan Stanley was willing to stamp the Wall Street equivalent of a Good Housekeeping seal of approval on a start-up hedge fund was

enough to set the new manager apart from the crowd. The tacit quid pro quo was that the manager would direct all his trading and other prime brokerage business to the firm that employed his capital introduction team.

The stock market slump and the economic recession that followed the collapse of the dot-com bubble in 2000 rang the death knell for old Wall Street relationships. As they had in past slumps, hedge funds outperformed the stock market during its three-year slide (in their worst year, 2002, the average fund fell only 2.89 percent).<sup>10</sup> Unhappy investors pulled money out of the stock market and directed it to the portfolios run by the go-anywhere gurus. Pension funds, facing future payout obligations to retirees and blindsided by large losses, found the allure of alternative asset classes and alpha to be almost magnetic; they hoped hedge fund gains could help them recover their losses as rapidly as possible. The stock market's malaise meant that stock underwriting was difficult and far from lucrative for investment banks; after raising \$300 billion in equity for companies in 2000, Wall Street institutions collected fees on a measly \$97 billion of deals in 2003.<sup>11</sup> Nor were there many M&A advisory fees to be earned: few corporations were interested in making strategic acquisitions in the midst of economic uncertainty when they couldn't compute the value of what they planned to buy. While the private equity funds weren't immune to the market slump of 2000 to 2002, they still had funds to invest and a big incentive to do deals. KKR alone raised another \$6 billion in capital in 2002, a sum that could finance \$35 billion or more in buyouts, given how low interest rates had fallen and how easy it had become to obtain debt financing even for risky transactions. But if Kravis and his colleagues didn't put that money to work, they wouldn't even earn the 2 percent management fee.

## The "Saviors" of Wall Street

By 2002, it was clear the balance of power had tipped away from

Main Street institutions—investors such as T. Rowe Price and corporations that relied on Wall Street to meet their capital needs—in favor of these new players. “New prime brokers were calling us every day,” says Nick Harris\*, manager of a large hedge fund. “They were offering us access to their balance sheet—if we needed to borrow to trade or otherwise generate fees for them, well, they were going to do whatever it took to make sure that happened.” His fund’s average leverage level was around 1.5, meaning that for every \$1 billion he invested of the firm’s own capital, he would borrow another \$500 million from one of those eager prime brokerages and invest it, too. But Harris’s prime brokers were urging him to go further, to raise that borrowing to \$1 billion. “When I started in the business in the early 1990s, you could lever up three or four times what you had on your balance sheet,” Harris recalls, meaning that for every dollar of capital, a maximum of \$3 or \$4 could be borrowed. “At its most extreme level, leverage of 20 times became at least theoretically possible.”

On the surface, borrowing was tempting; it was certainly cheap, since interest rates had fallen and so had the cost to hedge fund managers to borrow. At the end of 2001, Harris says, his interest costs were 170 basis points above the international interest rate benchmark, known as the London Interbank Offered Rate (LIBOR). That meant that if institutions borrowing money on London’s interbank market paid 2.5 percent, he would be forking over 4.2 percent. By 2005 or 2006, he says, those costs had plunged to 30 basis points above LIBOR; a 2.5 percent LIBOR rate would have meant he was now paying a mere 2.8 percent to borrow the same amount of money. Had Harris increased his borrowing, he would have had a lot more firepower to put behind his trading strategies and investment ideas, making it possible for him to earn exponentially higher returns. But he was also aware that if a trade went sour, the borrowing could backfire.

The Wall Street prime brokers didn’t seem worried about that risk and even downplayed it, he says. Of course, the more leverage they could persuade Harris and his fellow hedge fund managers to take on, the higher the fees they could generate for their firm. And

even the ultralow borrowing costs weren't set in stone, Harris says. The prime brokers' original role was handling back office functions for the thinly staffed hedge funds, keeping track of trades, clearing them, and keeping custody of the assets, carefully segregated from those of its other clients. The profit margins on this business might be low, but it was a consistent earner for the prime brokerage. "Our firm alone was large enough that we could generate \$10 million to \$20 million just in custody and back office fees these prime brokers charged" every year, Harris says. The prime broker also tended to handle a lot of trades for its hedge fund clients, collecting fees on those as well. Those fee streams were important enough in their own right that hedge funds could use them as a way to negotiate even lower financing costs. The more Wall Street firms jumped into the prime brokerage business, "the more we had carte blanche," he adds.

If Wall Street's prime brokerages were helping to drive up the level of risk taking in the financial markets by making ultracheap financing available to hedge funds, its investment banking operations were about to play their own part in making the financial system riskier. Once it had seemed at least possible for an investment bank to take the moral high road and not participate in a deal that might jeopardize the firm's reputation or long-term profits simply in order to capture a fee. That's what Goldman Sachs had done when it chose not to advise corporate raiders and others making hostile takeover bids. But as competition to woo the notoriously fickle private equity firms became fiercer and as clients grew more cutthroat by the day, the investment banks themselves rejected the mere idea of leaving anything behind on the table that a rival might be able to parlay into a penny of profit. By 2006, private equity firms, encouraged by the availability of cheap capital and their ability to raise larger and larger funds from alpha-hungry investors, were doing new deals at such a rapid clip that at any given time, a bank's sponsor team could be working on four or five multibillion-dollar takeovers simultaneously, recalls Tom McNamara.

The deals were sometimes happening so quickly that it was

nearly impossible to conduct proper due diligence. “On a Friday afternoon at 5:00 p.m., Blackstone or someone would call and want a commitment from us to finance a deal that would require \$15 billion in debt—and they would want it by Monday,” McNamara says. Credit research was being conducted by associates, the junior members of the team fresh out of business school, because there weren’t enough experienced credit analysts to go around. When something struck one of them as not making sense or being too risky, McNamara says, “the response was that if we didn’t do this, someone else was going to—one of our rival institutions. Then whoever had asked the question would be told, ‘Are you going to be the guy that didn’t get the commitment okayed, and the guy who let that business and all its fees go to a competitor?’ ” Naturally, nobody wanted to be that guy.

The business of financing buyouts proved nearly as addictive as crack cocaine. Banks could collect a series of fees from these private equity funds and didn’t have to spend millions of dollars wooing them or presenting them with deal ideas that would never be acted on, as they did with corporate clients who didn’t do deals for a living. The first revenue might come in the shape of an advisory fee, or in exchange for a financing commitment. Another fee could be levied on providing interim financing or bridge loans. More fees could then be charged for selling the junk bonds and leveraged loans that replaced that interim financing. And then there was the 7 percent fee that the bank could collect on the IPO of the company in a year or two.

Lloyd Blankfein, CEO of Goldman Sachs, admitted that his institution, like others, “rationalized” pushing the risk envelope during the credit bubble years. But he also insists that these rationalizations for the relaxation of lending and credit standards were completely justified. In his January 2010 testimony to the FCIC commissioners, Blankfein says bankers would cite reasons such as the power of the emerging markets and the ample liquidity in the financial system to justify the risk taking. But he undermined his own argument when he concluded that the rationalizations were the result of the fact that “a firm’s interest in preserving and



growing its market share, as a competitor, is sometimes blinding—especially when exuberance is at its peak.”<sup>12</sup> In other words, while every other firm on Wall Street may have been chasing Goldman Sachs, Goldman itself was afflicted with just the same kind of hypercompetitive urge, and feared losing even a fraction of a percentage point of market share to its own rivals.

These sponsor-backed IPOs weren't the tiny, \$100 million or \$200 million deals that came from taking start-up companies public. The IPO of private-equity-backed Hertz, the large car rental company, was a \$1.32 billion affair that raised an estimated \$90 million in fees for its underwriters—Merrill Lynch, Goldman Sachs, and JPMorgan Chase. Anyone who wanted a piece of those fees down the road had to be prepared to play ball with the private equity funds when the latter first structured and sought to finance those takeovers, says Peter Blanton. Blanton himself wasn't involved in putting together the packages of bridge and longer-term buyout financing, involving multiple layers of loans and bond issues, but he'd hear about them when it came time for the bankers to try to win the lead underwriting job on the IPO. “Writing the pitch books, we'd always note that we put up some of the original money, so we should be part of the deal.” That turned into a vicious circle; the next time the same private equity team needed financing for a deal, they'd use the same argument to the bankers: they had just paid out millions of dollars in underwriting fees and so had earned some generous terms on the next financing. “A lot of sponsors looked at Wall Street and saw a honeypot full of money and felt that was their money, because it had come out of their pockets when they paid the IPO fee,” Blanton says. “Now they wanted some of that back in concessions on the cost of the deal financing. The Wall Street firms had no backbone; all anyone could say was yes. The answer was never no.” Wall Street institutions knew they might be getting squeezed on the terms of any single deal by their ultra-aggressive clients. But they could make up for that on volume, they reasoned.

Some bankers chose not to stick around. Gelman, the Morgan Stanley banker who had helped bring Netscape public even as he

saw it as an example of Wall Street's transformation into a casino that encouraged short-term speculation rather than long-term investing, left early, before the market reached its most extreme levels. He didn't want to go through the whole dot-com experience again, this time with junk-bond-financed buyouts. "Over and over again, I'd find that the client whose stock issues I worked on wasn't a corporation raising capital for a new plant, but an IPO that would get a buyout firm a fast profit," he says.

Private equity funds argued that the way they earned their hefty returns was by taking a poorly managed company private, restructuring and overhauling its operations, and then selling the new and improved version, either back to public shareholders in an IPO or to another private buyer. But the time frame that elapsed between when the buyout was done and the IPO that marked the buyout fund's exit shrank steadily. Often, the private equity managers might have bought the company less than a year before the IPO, not enough time to make any fundamental operational changes, much less for those improvements to pay off in higher earnings or a higher valuation. A transaction like that "was a classic flip," Gelman says. The stock underwriting business, once a craft, had become an assembly line, he laments. "It was all about 'How many deals can we price this week?'" Gelman left, he says, "when it became impossible to be an effective conscientious objector to these deals."

Others stayed but became increasingly worried by the deals that were being done. Some voiced concern about the pattern of one buyout company selling portfolio companies on to another one, a phenomenon that became known as secondary buyouts. Why, they wondered, would a company that supposedly had already been through the private equity wringer—costs slashed, business revamped and refocused—be attractive to another buyout firm, one that presumably would try to make money by doing exactly the same things? If there was any fat left to be trimmed, that meant that the first firm hadn't done its job properly, which meant it wouldn't be able to extract the maximum sale price and thus the maximum return for its investors. On the other hand, if the first firm had done

its job properly, then the second buyer was making a foolish investment; there would be no way for its managers to generate a return for their own investors. Private equity investors were openly skeptical, but the deals got done: by the end of 2004, the Simmons mattress company had been acquired by no fewer than five different buyout firms—the fifth, Thomas H. Lee Partners, had paid \$1.1 billion for the company.

## Deals, Deals, Deals!

Secondary buyouts were just the tip of the iceberg, bankers and private equity funds agree today. By 2005, dividend recapitalizations had arrived on the scene as a way for buyout firms to generate quick profits on deals they had done only a few months earlier. Think of these as being a bit like refinancing a mortgage: the homeowner takes advantage of the increase in her home's value (or at least the increase in its paper value) and increases the size of the mortgage. While homeowners were doing just that in the mid-2000s, private equity firms did the same with the companies in their portfolio in order to lock in profits for themselves and be able to provide returns to their investors more rapidly.

“What I think happened was that bankers weren't gatekeepers, thinking about the quality of the transactions they were financing for their buyout clients,” says Jake Martin\*, a partner at one large buyout firm. Investment banks were shuffling the assets they underwrote off their own books as rapidly as possible and into the portfolios of other investors. “The question became not whether it was an attractive deal for buyers so much as ‘Is it structured right, so that I can push this stuff out the door?’ ” A lot of lipstick was being applied to make a lot of pigs look more appealing to buyers, he figures. With interest rates at such low levels, buyout firms had an incentive to put smaller amounts of capital into each deal they did—perhaps 10 percent or even 5 percent of the total value—and finance the rest. That was great news for all concerned. The buyout firms could put more money to work in more deals, and have less

cash at risk in each one; the greater the number of deals done, the more fees the Wall Street bankers could collect. Because investors were starved for securities that offered even slightly higher yields than those on Treasury notes, they held their noses and bought.

Martin admits that his firm was probably one of the beneficiaries of this phenomenon, able to finance its transactions more cheaply than otherwise would have been the case. But he adds that the new dynamics of the market—particularly the fact that increasingly the only investors who would buy the relatively low-yielding and higher-risk debt used to finance the later-stage buyouts were hedge funds—ultimately made his life more difficult. “We would rather know who is going to own our paper,” Martin says. “In the old days, you’d know who your lenders were and you’d have a relationship with them, and if something went wrong, you’d go and you’d sit down with them and work it out. Now I go and look at the list of people who hold my paper and it’s like alphabet soup. It’s XYZ hedge fund, or JJB, or GBX, all weirdly named hedge funds that I’ve never heard of before. If I have a problem with a company and try to talk to them, they basically look at me as if I’m a criminal, and I can see them wondering, ‘What kind of pound of flesh can I get out of you? What extra return from your misfortunes can I get?’ That is just the reality of today’s Wall Street.”

## Wall Street Joins the Party

Watching their clients rake in profits hand over fist beginning in the late 1990s, Wall Street firms found themselves envying the apparent ease with which they made money. Serving these clients was great; working with hedge funds meant that they not only earned big fees but also picked up valuable market intelligence that helped in other parts of their business. But across Wall Street, investment banks as well as banking giants such as Citigroup began to wonder how they could capture a bigger slice of the pie for themselves. Wouldn't the best way to maximize profits for their own restless shareholders be to just become their own clients?

A growing number of firms took stakes in hedge fund businesses; JPMorgan Chase's acquisition of Highbridge was the biggest deal, but Morgan Stanley spent \$1 billion to purchase pieces of Avenue Capital, FrontPoint Partners, and Lansdowne. Citigroup paid \$800 million for Old Lane Partners, a hedge fund founded by former Morgan Stanley banker Vikram Pandit, as part of a bid to convince Pandit to join the company's team of top executives. (That turned out to be a particularly controversial deal when, less than a year later, Citi shut down Old Lane.) Lehman Brothers acquired stakes in firms such as Ospraie Management, run by high-flyer Dwight Anderson, an alumnus of Julian Robertson's Tiger fund. It also backed former employees who decamped to start hedge funds; after all, one of them might become the next star, like SAC Capital's Steve Cohen. Among its other investments, Lehman acquired a 45 percent stake in R3 Capital Partners, started by a former proprietary trader at Lehman, Richard Rieder, as late in the game as the spring of 2008. (By the time that interest was sold in October as part of Lehman's bankruptcy proceedings, it had lost half its value.)

Still, Wall Street CEOs wondered whether it wouldn't be even better if their firms could just go and make money for themselves in the financial markets, using their capital to do deals and place bets in the markets through proprietary trading desks. Why not become

deal makers in their own right? The logic was impeccable: turning themselves into their own client would be so much simpler ... and it wouldn't require that much of a leap. Ever since Wall Street had begun its transformation back in the 1970s, investment banks had been looking for ways to put their balance sheets to work profitably. "All Wall Street CEOs have two traits in common," says Marsh Carter, deputy chairman of NYSE Euronext and former chairman of State Street Bank and Trust Corp., who has worked closely with most of the current crop of these individuals. "They are very, very, very optimistic. And they all have an undying, unquenchable thirst to do something unique."

To Pete Peterson, who headed Lehman Brothers from the early 1970s until the early 1980s, unique meant looking back in time to the days when banking meant merchant banking, buying and owning businesses rather than just serving as an intermediary for others. Financing other people's deals was inherently perilous, Peterson worried, since blips in the market or the economy could cause a stream of fees to vanish overnight. Why not use Lehman's capital to do its own leveraged buyouts or invest in other businesses, such as real estate, where no one else put a limit on how much they could earn by telling them what kind of fee was acceptable?<sup>13</sup> Lew Glucksman, Peterson's co-CEO, had a different vision for the firm, however. A street-smart trader, Glucksman was aware that trading the growing array of products available—options, futures, and commodities, as well as stocks and bonds—generated two-thirds of Lehman's profits by the early 1980s.<sup>14</sup> Why shouldn't the firm build on those strengths and put its capital to work accommodating its trading clients and taking proprietary positions?

Both co-CEOs had a vision of the future that went well beyond Wall Street's classic role as an intermediary and involved Lehman using its own capital and becoming its own client. The difference in the nature of their vision, however—Glucksman believed Lehman should become more like a hedge fund, while Peterson preferred a private equity model—resulted in an epic battle for control of the firm in 1983. Glucksman triumphed briefly, ousting Peterson and

ruling the company for another ten months before the partnership collapsed under the weight of the internecine battling. It is perhaps not surprising that Peterson went on to cofound the Blackstone Group with fellow Lehman alum Stephen Schwarzman in 1985, a company that the two men turned into one of the largest buyout firms in the world. (Glucksman went on to work with Sandy Weill as the latter began building what became Citigroup; he died in 2006.)

At Goldman Sachs, partners were also debating how best to make use of their own balance sheet. As Wall Street's transformation got under way in the 1970s and 1980s, a growing number believed that the recipe for long-term survival and success involved more than simply acting as an agent for its clients: Goldman Sachs should do business as a principal, to take risks with its own capital and pocket 100 percent of any return. Steve Friedman and Bob Rubin battled to get their partners' assent to a \$5 million investment in one of KKR's first funds over the objections of colleagues who griped that they didn't want their profits going to support the business launched by Jerome Kohlberg, Henry Kravis, and George Roberts. But the investment was made, clearing the way for more direct investments in operating businesses by Goldman itself. Goldman veterans still fretted that this time KKR would see them as rivals instead of bankers. ("Yes, but they'll get used to it," Friedman retorted.) Finally, in 1991, Goldman opened what would become the first in a series of private equity funds carrying the Goldman Sachs brand name.<sup>15</sup> The \$1 billion GS Capital Partners I, with \$300 million of Goldman's capital invested in it, set out to compete directly with the big guys. In less than two decades, Goldman Sachs was the big guy, raising a \$20 billion fund that even dedicated buyout firms such as KKR and Blackstone would find hard to match in size.

Goldman was slower to set up its own hedge fund, although Leon Cooperman had proposed doing so at a partners' meeting in the same year that GS Capital Opportunities made its debut. "The other partners were reluctant, because the hedge fund might short stocks of companies who were also investment banking clients of the

firm,” Cooperman recalls. “They worried that if that happened and the clients found out, there would be hell to pay. They just weren’t progressive enough to see that in a few years this would become mainstream” and that even though those corporate underwriting clients didn’t like it, they didn’t have enough clout to punish the increasingly powerful Wall Street institutions. Cooperman left to set up his own hedge fund, to which other Goldman alumni have flocked. Meanwhile, Goldman quickly overcame its qualms and rolled out proprietary hedge funds. It also allocated a steadily increasing stream of capital to its proprietary traders, who were charged with using that money to generate profits for the firm in much the same way that the hedge funds would.

Both the hedge fund and proprietary trading businesses exploded in the 2000s. “Within ten years after I failed to convince them, suddenly hedge funds were all they were selling to their [investment] clients—these premium products,” says Cooperman. Indeed, so great was Goldman’s dependence on these principal activities—private equity investing, its hedge funds, and its proprietary trading business—that among the cognoscenti it had become almost a cliché to refer to Goldman Sachs as a hedge fund disguised as an investment bank. That’s a description still guaranteed to cause Goldman Sachs executives to sputter in outraged indignation. Gary Cohn, the company’s president, insisted in a 2009 interview that “the vast, vast majority of our revenue and income comes from our client facilitation” activities.<sup>16</sup> Many see that as posturing; others nod knowingly at the almost Clintonesque precision of Cohn’s choice of words in describing Goldman’s activities.

Ultimately, it became hard to figure out whether a Wall Street investment bank was operating as an intermediary, helping clients finance transactions; as a partner, investing alongside them; or as their rival, competing with them for trading ideas or access to deal flow. “It became very situational,” says Jim Tanenbaum, a partner at Morrison & Foerster, who has worked closely with Wall Street clients of all stripes; the answer would vary depending on what day of the week it was or even the time of day. If Goldman Sachs met



with the board of directors of a company thinking of going public, there was no guarantee that the investment bank would agree to underwrite the deal, for reasons Tanenbaum says had less to do with the IPO candidate's appeal to public investors than with Goldman's own interests. "What would have happened? Goldman's bankers would have gone to the first meeting, said, 'That's very interesting. Let us introduce you to some of our colleagues,' " he observes. "And then at the next meeting, they'd be there with managers of their proprietary funds, because they had decided that rather than be the conduit for you to raise capital and earn a fee, they'd rather compete with their peers by buying you outright or investing in you." Instead of acting as an agent, the banks had themselves become principals in the financing transactions.

Is that better or worse for the hypothetical company looking for new capital? It's impossible to know if the company would have been better off following the traditional path of going public and selling stock to a number of mutual funds rather than selling itself to a private equity firm. Blanton is forthright in assessing the kind of analysis that was being made by his bosses. "Who is to say that this is wrong? You're a public company; your duty is to make money for your shareholders. And if everyone else is doing it too, why would you be the one firm to become holier than thou? It's just inconceivable." What was significant was that, increasingly, it was harder than ever for midsized or start-up companies with respectable revenue and profit track records to go public. Meanwhile, venture investors and bankers note that the same investment banks who turned them away as underwriting clients would often return with acquisition offers, sometimes emanating from themselves, on other occasions on behalf of buyout funds. Wall Street firms, which once saw their role as facilitating access to public markets, increasingly seemed inclined to block it, say a number of corporate lawyers and venture capital investors.

Part of this shift, Wall Street veterans agree, stemmed from the fact that investment banks and the growing numbers of commercial banks vying with them for capital markets transactions were almost all publicly traded businesses by 2000. Only a handful of firms

remained partnerships, including Lazard, Greenhill & Co. (the boutique launched by former Morgan Stanley rainmaker Bob Greenhill) and Evercore Partners, another boutique launched by a group of veteran bankers (many of them Blackstone alumni) including Roger Altman, who had also worked at Lehman Brothers. (By 2008, all of these firms would also be publicly traded, following an IPO.) “When I started practicing on Wall Street, none of this could have happened, because people owned their own firms,” remarks Tanenbaum. “The idea of using capital to pay traders based on the volume of the business they did would have been viewed as an absurdity.”

Now that they were publicly traded, investment banks faced two conundrums: the perennial challenge of finding new and profitable business lines in order to deliver a stream of steadily rising profits to shareholders; and finding ways to deploy their constantly expanding balance sheets to generate those profits. “When any company raises new capital, they need to invest it in a business that will make even more money than what they are already doing,” says Jimmy Dunne, CEO of one of Wall Street’s boutique investment banks, Sandler O’Neill. “It’s no good raising capital if it goes into a business at which they aren’t as good as they were at the core business. That’s a bad use of capital.” Not coincidentally, Sandler O’Neill remains a private partnership.

The consequences of the business decisions made by the likes of Stan O’Neal and Lloyd Blankfein—CEOs of investment banks that were now accountable to outside shareholders—were reflected not only in the rate of growth in their profits but also in the kinds of business that were now generating those profits. At Merrill Lynch, revenue from trading and principal investments—the kinds of activities in which the firm used its capital to generate profits for itself, becoming its own client—was 47 percent in 1997, rising to 55 percent in 2007, according to data cited in the Financial Crisis Inquiry Commission’s final report. At Lehman Brothers, 32 percent of pretax earnings flowed from these transactions in 1997, compared to 80 percent a decade later; in some years, Bear Stearns generated more than 100 percent of pretax earnings from those

businesses, thanks to losses in other divisions. And at Goldman Sachs—which remained the envy of all its rivals for its ability to steer its way effortlessly through any controversy while turning everything it touched to gold—the proportion of revenues attributable to proprietary trading and investing jumped from 39 percent in 1997 to 68 percent a decade later. As a result, profits for the financial sector, which had made up about 15 percent of all corporate profits in 1980, ranged between 27 percent and 33 percent of total corporate profits in the years immediately preceding the meltdown.

By early 2006, some of Wall Street's more thoughtful insiders were questioning what was happening. How much of the record earnings that investment banks were posting could be attributed to their wisdom and deal-making prowess, and how much to the fact that they were benefiting from record low interest rates and investors' seemingly insatiable appetite for risky investments? What was unquestioned was that by 2006, the definition of success for Wall Street had changed. Once, the masters of the universe were those who could navigate the money grid most adeptly, generating the biggest benefit for their corporate clients while earning hefty fees for their firms. Now success was about not only serving a new breed of clients but trying to emulate them. Financial alchemy was the magic ingredient; if they could find the right ways to structure and hedge their financial innovations, the world, they were sure, could be their oyster.

And killjoys? Well, they didn't last long on the new Wall Street. No one had to look further than Phil Purcell, the Dean Witter executive who had risen to the top spot at Morgan Stanley in the wake of the two firms' merger in the late 1990s, only to be ousted in 2005 in a bloody battle for control of the investment bank. "In a lot of ways, the smartest guy out there was Phil Purcell," comments Nick Harris, the hedge fund manager. "He took few balance sheet risks, he said no to that special bottle of Château Leverage 2003. And he got fired for it."

That was only part of the story, of course. Purcell was widely disliked within Morgan Stanley, and during his time at the helm a

number of top bankers had fled the elite investment bank. Still, under Purcell, Morgan Stanley hadn't taken the same kind of big balance sheet bets as its competitors—and that showed up in the company's profit margins and return on equity, which compared unfavorably with those of rivals. Shareholders were already concerned by news of the defections, and, backed by bankers inside the firm eager to delve further into the world of principal investing and proprietary trading, they ended up ousting Purcell. "He just didn't get what it meant to be a banker in the twenty-first century," says Gelman, the former Morgan Stanley banker. "I don't know why he seemed to be surprised that people weren't happy." Purcell's replacement was John Mack, who promptly went where Purcell had feared to tread. When Morgan Stanley reported its first-quarter earnings in 2007, the company announced a \$1 billion profit made by shorting subprime securities in the first stage of their slump; investors beamed with delight at one-upping Goldman Sachs.

The lesson of Purcell's ouster wasn't lost on anyone. It wasn't that people lamented his absence as a person or even as a leader. But to many Purcell stood for an old-fashioned way of thinking about what Wall Street did and how it worked. "His Wall Street was a customer-focused place, not a place where people chased after business as a principal," Gelman notes. So Purcell's departure was symbolic; if he could be driven out of Morgan Stanley for failing to maximize profits at all costs, the thinking went, then consciously walking away from business opportunities just because they might involve a bit of risk was likely to be a career-limiting move for anyone else on Wall Street. "We watched, we listened, and we all learned from that," says another Wall Street veteran. "The message was clear: the question we were supposed to be asking ourselves wasn't whether a piece of business was prudent, it was whether it would help us beat Goldman Sachs."

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## CHAPTER 4

### To the Edge of the Abyss—and Beyond

#### Flying Too Close to the Sun

Richard Fuld didn't like naysayers or killjoys any better than anyone else on Wall Street, especially when they came from inside the ranks of Lehman Brothers, the firm that had been his home his entire professional life. As CEO, he struggled daily to win the respect he felt Lehman deserved after clawing its way to the position of Wall Street's fourth-largest investment bank. Occasionally Lehman even managed to earn a larger return on equity than Goldman Sachs did, as happened in 2000 and again in 2003. Fuld, say some former Lehman bankers, was obsessively competitive and focused on beating Goldman Sachs on a consistent basis, and that meant emulating Goldman's risk-taking culture and taking on even more leverage. While Goldman Sachs borrowed about \$25 for every dollar it put to work in proprietary deals or other high-margin undertakings, Lehman, by some calculations, borrowed more than \$30. To continue earning those returns, Lehman devoted a lot of that capital to buying mortgages and repackaging them into CDOs as fast as it could, billions of dollars at a time. The 1 percent fee on creating and selling CDOs was a windfall that flowed straight to Lehman's bottom line.

When Mike Gelband, Lehman's new co-head of fixed income, began questioning the health of the real estate market in the summer of 2005, he was directly challenging the resolute optimism of Fuld and his closest allies at the top of the firm about one of the most profitable parts of their business. According to Lawrence

McDonald, a Lehman banker who went on to chronicle the collapse of the investment bank in a book entitled *A Colossal Failure of Common Sense*, Gelband was a studious kind of person, as bankers go. But, McDonald added, “to this day I’ve never met anyone who could grab and comprehend a difficult new idea faster than Mike Gelband.”<sup>1</sup> The “difficult new idea” that Gelband was focusing on in June 2005 certainly wasn’t a welcome one for many at Lehman. It had nothing to do with the invention of a new way to make money but instead questioned the rationale for the profits the firm was already earning. Gelband prepared a thirty-page report spelling out just why he thought the real estate market was a bubble about to pop and do far more harm to Wall Street and the economy than the Internet bubble had done only a few years previously.

Gelband presented his evidence to McDonald’s group early one morning at the beginning of June 2005. To the tense group of bankers and traders assembled in a conference room at Lehman’s mid-town Manhattan headquarters, he argued that the real estate industry “was pumped up like an athlete on steroids, rippling with a set of muscles that did not naturally belong there,” McDonald later recalled. “Those muscles gave a false impression of strength and in the end would not be sustained.”<sup>2</sup> With almost oracular ability, Gelman identified everything that would go wrong and ultimately cost Fuld his post and Lehman its very existence—the rise of the shadow banking system of which Lehman was a part, the leverage, the poor quality of the mortgage loans that Wall Street was churning into CDOs. He even predicted the timing of the debacle: the chickens would come home to roost in 2007 and 2008, he said.

Not surprisingly, this kind of analysis was unwelcome to those toiling within Lehman’s mortgage banking and trading division. Gelband just didn’t get it, they argued; he was too conservative. And Fuld tended to agree with them. Why did Gelband want to kill the proverbial goose that was laying golden eggs at a very rapid rate? The buzz, McDonald said later, “was that Mike Gelband had developed some kind of an attitude problem, and it needed to be changed real fast.”<sup>3</sup> As Gelband’s anxiety grew about Lehman’s

exposure to what he saw as a catastrophe in the making, so did the worry among Lehman's top brass about Gelband and his inability to be a cheerleader for the business that was generating big profits for the firm.

In 2006, the volume and value of CDO deals hit another record, \$552 billion—generating about \$5 billion in profits for the Wall Street firms packaging the securities. But Gelband's anxiety grew just as significantly. That spring, some four million homes were for sale across the United States, double the number at the same time of year in 2000; CDO issuance was now more than three times the level of 2003. Gelband tried on several occasions to communicate those worries to Fuld and his chief lieutenant, Joe Gregory. At a year-end review in late 2006, Fuld openly told Gelband he was being too conservative. Ultimately, the naysayer had to go: by March, Gelband had been forced out of Lehman Brothers.<sup>4</sup> Only weeks after his departure, however, Gelband's predictions began to come true. Fuld may have won the battle, but Lehman would lose the war.

In the life cycle of every bubble, there is a point where it becomes clear that what looked like a boom is really a bubble—one, moreover, doomed to explode violently in the near future. By the early summer of 2007, that point had been reached. True, regulators such as Fed chairman Ben Bernanke could burble reassuringly about the problems associated with the subprime mortgage crisis being “contained,” while Wall Street investment bankers remained publicly upbeat. But if the summer of 2007 was a tipping point, it is by studying the eighteen months that led up to it that we can begin to appreciate the extent to which Wall Street was afflicted with a kind of willful blindness or magical thinking. Each of the Street's five large investment banks, together with the investment banking divisions of giant global banks such as Citigroup and UBS, was fixated on doing whatever it took to maximize short-term profits. If one risky deal was highly profitable and thus good, then doing ten such deals had to be even better, they reasoned. With their gaze focused on their own bottom line, they neglected to consider the implications for the entire financial



system of each step they took. “We talked ourselves into complacency,” Blankfein later admitted during his FCIC testimony.

By the time Gelband began to warn his colleagues at Lehman Brothers about the impending storm, it was already on its way. At first it looked like nothing more than a single, distant cloud marring an otherwise perfect sky, or a small snowball rolling down an Alpine slope. But as the months passed throughout 2006 and early 2007, the number of clouds grew in number and became darker and more ominous; the snowball became a giant boulder and, moving faster and faster, threatened to trigger an avalanche that would crush everything in its path. At the time, few seemed to realize just what was brewing, yet the signs were everywhere. Nine of the ten largest leveraged buyouts proposed in the industry’s history were negotiated in 2006; subprime lending reached a peak along with CDO creation and leverage levels. Wall Street was drunk on cheap money and oblivious to the inevitable hangover.

The period that elapsed between two IPOs that, in different ways, signaled just how greatly Wall Street had changed over the last few decades proved to be the period in which that avalanche became unstoppable. The first of those transactions was the decision in the final days of 2005 by the New York Stock Exchange to merge with electronic trading network Archipelago and become, in the process, a publicly traded, for-profit entity. The second was the June 2007 initial public offering of stock in the Blackstone Group. The private equity group hoped to leverage its own decades-old brand name and its status as one of the linchpins of the “new” Wall Street into another successful nontraditional IPO. By now, however, the cracks in that new financial system were beginning to show up, and only days after the Blackstone IPO was completed, the financial apocalypse had begun. The fifteen months that followed would prove to be just as ugly and traumatic as the fifteen months that lay between the two IPOs had been filled with euphoria. Wall Street would never be the same again, the pundits proclaimed.

In the final weeks of 2005, the New York Stock Exchange's 1,366 members prepared to vote on the most dramatic change to the centuries-old institution they ever expected to witness. Enough yes votes, and the Big Board would end 215 years as a member-owned nonprofit utility. Merging with electronic trading firm Archipelago Holdings Inc., the exchange would become a publicly traded for-profit entity whose activities revolved not around the venerable trading floor but around increasingly sophisticated computer networks.

To the exchange's new leadership—Goldman Sachs banker John Thain had just replaced Big Board veteran Dick Grasso at the helm in the wake of a scandal surrounding Grasso's lavish compensation package—the deal was a slam dunk. The exchange may still have been a symbol of American capitalism and the financial markets themselves, visited by every head of state that flew into New York to attend United Nations events. But, they argued, it was stuck in the twentieth century at a time when all of its major competitors at home and abroad had thrown themselves into the world of electronic trading. Its best clients—hedge funds and the trading desks of buy-side and sell-side firms alike—demanded execution in milliseconds, not seconds, especially for the vast majority of trades that simply involved buying or selling blocks of stock. The NYSE had taken a relatively slow and haphazard approach to computerized trading, and its ability to execute client trades cheaply and rapidly was in question even as the SEC forged ahead with plans to level the playing field still further. Supporters of the Archipelago merger argued that the deal wouldn't just make members rich—they would get, collectively, \$400 million in cash and 70 percent of the shares in the new company—but also would save the centuries-old institution from becoming about as irrelevant as, say, a quill pen in the computer era.

Few Wall Street culture clashes are as visible as the one between the old and new Wall Streets that surfaced in the months after the transaction was sprung upon the world in the spring of 2005. The proposed merger had been negotiated in a matter of weeks. after

Archipelago was rebuffed in its attempt to acquire the Big Board's largest competitor, Nasdaq. Not a word of the negotiations—in which both sides were advised by Goldman Sachs—leaked out. On the day of the announcement, Archipelago executives attending the press conference snuck in a side door of the NYSE and up a back staircase to reach the room where the media was assembled in order to keep the news secret until the last possible second. “Rarely do you get to completely shock the Wall Street world, and we did,” recalls one of the participants in the negotiations, gleefully.

Shock was the appropriate word. One NYSE member loyal to ousted exchange CEO Dick Grasso and angry about Goldman Sachs's increasing clout at the exchange (Goldman also owned a stake in Archipelago) tried to launch a rival offer. He argued that the deal didn't compensate seat holders for the value of the exchange's real estate at the corner of Wall and Broad Streets, much less its brand. On the floor of the exchange itself, a coterie of traders quietly mourned what they believed was the end of a long tradition. “I had always taken great comfort in the idea that the Big Board was above the fray, a kind of disinterested, nonprofit thing where our focus [as an institution] was to keep the wheels turning rather than only making money,” one trader mused. “Obviously, we all wanted to make money for ourselves, but we also thought that the system within which we were making money was one that thought first about that system and only then about profiting for itself. I suppose we felt as if we had a kind of trust to discharge.”

But the future lay with a new breed of player, such as Tom Caldwell, a Toronto financier who thirty-five years earlier had stood beside George Washington's statue outside Federal Hall, just across Wall Street from the exchange, and vowed to himself that one day he would own a seat on (and thus a stake in) the NYSE. By the time of the vote, Caldwell, now head of a multibillion-dollar investment empire, owned forty-nine seats on the NYSE and cast his own ballots in favor of the merger and the IPO. “When an exchange is public, when people are willing to own it, it's a sign of a stable financial system,” argues Caldwell, who also owns shares of publicly traded stock exchanges worldwide. from Europe to Latin

America. “By having a publicly traded exchange, you give investors a way to participate in the growth of the economy and the region, and you give the exchange a currency that it can use to invest in itself to make sure it remains a competitive force.” The kind of push that comes from shareholder-investors to become more competitive and efficient is the best way to make sure an organization is as effective as possible, he adds. The NYSE just couldn’t afford to cling to its nonprofit status in a new world of intensive competition among stock exchanges for market share. It was this “new” Wall Street, with its emphasis on technology, innovation, and maximizing fees and revenues, that triumphed in the December vote. At least 85 percent of the exchange’s members (95 percent of those who cast their ballots) voted in favor of the transaction, Caldwell among them.

Three months later, shares of the new New York Stock Exchange Group began trading on its own exchange. Tiny ceremonial bells were handed out to all who showed up for the traditional party accompanying the first day of trading in any new listed company, and as the moment approached when exchange officials would ring the opening bell, members-turned-shareholders and hundreds of assembled guests began ringing them in celebration. The celebration was even louder at the end of the first day of trading, after the exchange’s shares rose from \$67 to \$80 apiece.

Nonetheless, everyone was well aware that this was an entirely different kind of IPO. For two centuries, the exchange had been a member-owned organization that wasn’t just a part of the financial system but one of its hubs. Even its location, at the corner of Broad and Wall, had given its name to that financial system—Wall Street. The reason for its existence was to give everyone a chance to access the secondary market for stocks. Unanswerable questions were everywhere. Some wondered what effect the fact that the exchange’s single largest holder was now a private equity firm—General Atlantic LLC—would have on governance.

It was early days for the merger, but even as the bells rang out joyfully, a chorus of boos was also heard on the trading floor. Some came from disgruntled floor traders who hadn’t had seats to sell and

who thus hadn't been made rich in the transaction, but who knew that significant upheaval lay ahead. Others, on and off the exchange floor, were wary for different reasons, and continued to voice their unease at the idea of a for-profit exchange. "Look, I think it's great that the NYSE is competitive and innovative, but I don't know how much thought has gone into finding a way to be both a utility that has to serve all of us who are market participants and a for-profit company that has to maximize shareholder returns," says one investment manager who has served on exchange committees in the past. "They had struggled with these conflicts even before they were public, earning profits for the exchange by selling the right to trade in certain stocks [specialist listings], even though they acknowledged those listings belonged to everybody who participated in the markets, not the exchange itself. I don't know how they'll cope with this over the long haul."

Cultural clashes such as these likely will recur for many years to come. Exchange insiders, on the other hand, point out that a separate regulatory company reports to an independent board of directors, while the exchange as a whole is still overseen by the SEC. And the risk is worth running, they argue. "If the exchange was a public utility, which implies being a kind of monopoly, then there would be no incentive for it to become better, faster, or more efficient; the competitiveness of our markets would suffer," says one former senior executive at the exchange. In other words, the profit motive was necessary; without it the exchange couldn't discharge its responsibilities to the system properly. Certainly, without the public listing the NYSE never could have taken its next step. Only a few months later, it signed a deal to merge with Paris-based Euronext, forming the first transatlantic stock exchange company and setting the NYSE on course to having a global footprint. The only way the NYSE could outbid Deutsche Boerse, its rival to acquire Euronext, was its ability to use its stock as the "currency" in the €8 billion offer.

Little more than a year after the NYSE's debut as a public company, in June 2007, armies of television cameras showed up again at the New York Stock Exchange for another unusual kind of IPO. This time the company going public wasn't an exchange but an entity from another part of the Wall Street labyrinth: private equity giant Blackstone. Only a month before the IPO plan was announced, Blackstone's CEO, Stephen Schwarzman, had called the public markets overrated and not really worth it when it came to raising capital.<sup>5</sup> Now, it seemed, Schwarzman was willing to eat his words (which had been directed at hedge fund firms and rival private equity companies that had filed for IPOs) if it meant that he could raise nearly \$700 million by selling part of his interest in the company he cofounded to other investors, and put a \$7.7 billion valuation on the rest of it. It would quantify the magnitude of his achievement in the eyes of everyone—and make him even wealthier to boot.

On the surface, the deal looked appealing; it was pitched to potential investors as a way for them to get a piece of the private equity action that was usually confined to the deal makers themselves, their closest (very wealthy) allies in the finance and business worlds, and blue-chip institutional investors. The only problem was that owning Blackstone's stock wouldn't give ordinary investors access to the same riches they might have enjoyed as real partners in the private equity firm's deals. What Blackstone was offering to the public were shares in its management company, not participation in its deals. Moreover, investors would have limited voting rights, giving them little to no say over the way Schwarzman and his board decided to run the business. In the eyes of some potential investors, the Blackstone folks were hanging on to their cake even as they ate it.

The success of the NYSE's debut as a public company hinged on the ability of a centuries-old brand name to overcome worries that the newly merged company might not be able to reinvent its business model and compete successfully in the twenty-first-century era of computerized trading. Blackstone now faced its own set of

obstacles. Despite its status as a different kind of icon—a symbol of the riches that came from being a success on the “new” Wall Street—Blackstone’s IPO bid raised eyebrows. After all, the firm had made that money for its partners and investors in its funds from private equity. Indeed, Blackstone’s entire business model relied on the premise that the public markets it now sought to tap for its own benefit were inefficient. Only by taking publicly traded companies private (using debt to finance the deals) and overhauling and streamlining them could the true value of a corporation be unlocked, private equity investors argued. Of course, the public markets would come in handy eventually, when Blackstone needed an exit strategy to turn its investors’ paper profits into cold hard cash. But an IPO wouldn’t take place until Blackstone’s partners had extracted as much value as possible from the company, leaving little on the table for subsequent investors. In other words, for Blackstone, the stock market had served traditionally as a dumping ground for its leftovers.

Nonetheless, Citigroup’s Michael Klein, co-head of investment banking, felt the time had come for Blackstone itself to go public; the fascination with private equity as a source of fees for Wall Street had reached its logical extreme. It was time to turn those private equity profits into cash for the buyout firm’s owners—and into fees for Citigroup. Klein, one of a small handful of bankers who pioneered the concept of sponsor groups within the investment banking world, had helped Blackstone finance so many of the firm’s buyouts that Citigroup became known as Blackstone’s bankers in much the same way that midtown Manhattan’s Four Seasons restaurant, around the corner from the private equity shop’s offices, was referred to as the Blackstone cafeteria. Klein broached the idea of an IPO for Blackstone itself not in Manhattan but over lunch at Schwarzman’s recently acquired \$34 million estate in the tony Hamptons.<sup>6</sup>

It was obvious that Blackstone had a better track record than many conventional companies that seek to raise new capital through an IPO. In the nearly twenty years that had passed since it launched its first fund, Blackstone’s assets under management had

grown at an average rate of 34 percent. Even after paying Blackstone's fees, clients of its core private equity funds had pocketed an average annual return of 22.8 percent, a figure that dwarfed stock market returns in the same period.<sup>7</sup> Klein argued that Blackstone's managing partners could hang on to what mattered to them—control over the management of the funds and the ability to continue raising new ones—while generating a permanent capital base for the parent company and—not coincidentally—turning some of the wealth that Schwarzman, Peterson, and other partners had generated into cold hard cash. “It was very astute,” says junk bond analyst and money manager Marty Fridson. “They seemed to realize that the market would never be at these levels again; a smart investor knows that the time to sell is when the market is at the peak and about to head south again. It was as if they'd said, ‘Well, if people are willing to give us capital very cheaply, if they are willing to pay a premium—why not?’ ”

## A Study in Contrasts

Aside from the timing and the nature of the deals—two parts of the Wall Street system for raising capital, raising capital for themselves through that system—the two IPOs could not have been a greater study in contrasts. The NYSE remains in many key ways a symbol of “old” Wall Street, despite the fact that 95 percent of the trading now takes place via computers rather than on the venerable trading floor. In contrast, Blackstone is the epitome of the “new” Wall Street. Even the purpose of the two IPOs was different. While that of the NYSE was simply a way to get the stock publicly traded (no fresh capital was raised), the Blackstone IPO was a way to help cofounder Pete Peterson (the former Lehman banker) make his wealth liquid: when the IPO was over, Peterson had sold all but 4 percent of his stake in Blackstone in exchange for \$1.88 billion. Steve Schwarzman kept a 24 percent stake in the firm but still made nearly \$700 million from the IPO.

Peterson and Schwarzman both rejoiced in lavish displays of their



wealth, with Schwarzman sometimes taking it to extremes. For his sixtieth birthday, celebrated on Valentine's Day 2007, Schwarzman commandeered the Park Avenue Armory; comedian Martin Short was the evening's master of ceremonies, Patti LaBelle sang a song written especially for the master of the universe, and Rod Stewart performed in an evening that—lobster, filet mignon, and all—cost \$5 million, by some estimates. That was just slightly more lavish than Schwarzman's annual holiday parties, the 2007 version of which had an orchestra playing themes from James Bond films while models dressed as the various "Bond girls" mingled with hundreds of guests. He's also a property junkie, owning lavish homes in Manhattan, Jamaica, Florida, and Saint-Tropez, in addition to the Hamptons estate.

In contrast, Duncan Niederauer, the former Goldman Sachs banker who replaced John Thain at the helm of the stock exchange, plays down his own wealth in a more "old" Wall Street way even as he continues to urge the Big Board forward into a new era. He and his family live in a relatively modest New Jersey suburb and, until the exchange's security people put their feet down and insisted he agree to a car and driver, preferred to drive himself to work early every morning in a pickup truck. Schwarzman attends galas for high-social-impact institutions such as the New York Public Library; Niederauer prefers to work for Habitat for Humanity and an array of autism nonprofits. (His son was diagnosed as autistic as a toddler.) Still, Blackstone's IPO was "new" Wall Street, and the high-octane private equity business had, in the eyes of investors, a lot more pizzazz than the stodgy business of facilitating trades. While the exchange's stock had dipped below its \$31 IPO price by the summer of 2007, Blackstone and its underwriters were confident that all that glamour would command a premium valuation.

Certainly the buyout business seemed white-hot, with several veterans speculating openly that 2007 or 2008 would see what many bankers and analysts had believed to be impossible: a \$100 billion buyout. "That November 2006, we were working on three or four deals all at once. and then we got a call to work on

structuring what would have been an \$85 billion buyout,” says one Citigroup banker. (By way of comparison, the largest buyout to date had been the \$33 billion purchase of hospital chain HCA in the summer of 2006.) The bankers figured out ways to sell no less than \$35 billion of term loans and worked through different strategies for financing the rest of the transaction but—to the poorly hidden relief of at least some of the bankers—the transaction fell apart. “Someone made the comment, ‘I think we just flew too close to the sun.’ ”

Even for those who believed in the fundamental strength of the private equity model, the rapid-fire pace at which new buyouts were being done, the enormous deal sizes (seventeen of the twenty largest deals in history were announced in the eighteen months that preceded Blackstone’s IPO), and the equally gargantuan valuations and levels of debt aroused unease. “Why would I want to buy stock in Blackstone if a guy like Steve Schwarzman is selling?” was the question heard across Wall Street. Those qualms didn’t stop the underwriters (led by Morgan Stanley and Citigroup) from rounding up more than enough interest to price Blackstone’s shares at \$31 apiece, at the high end of the range. Behind the scenes, the level of nervousness was growing, say people who were involved in the underwriting and the road show. “Steve decided to accelerate the pricing by two days,” says one of the bankers. “He saw the environment deteriorating.”

In Washington, Senator Charles Grassley (the ranking Republican member of the Senate Finance Committee) was “stomping around,” in the words of one private equity deal maker, introducing, along with his Democratic counterpart and committee chairman Max Baucus, a proposal that would tax the 20 percent share of profits earned by partnerships such as private equity, venture capital, and hedge funds at the rate applied to corporate profits rather than at the much lower capital gains tax rate. Meanwhile, the leveraged loan market—on which Blackstone and other private equity funds relied to help finance their deals—was beginning to crack. “In 2005, a normal backlog of paper that banks had committed to finance and waiting to be sold would be about \$70 billion. but by

June of 2007, it was \$380 billion,” says Tom McNamara, the private equity banker. “The tidal wave of paper in search of a home was so overwhelming that almost overnight we started to hear investors starting to say no to deals and commenting that they didn’t need to buy everything, especially at the prices being asked.” Schwarzman’s instincts were right. Within days of the Blackstone IPO, shares of the newly public company (trading under the symbol BX—pronounced “bucks,” as in cash) were falling; by early July 2010, the stock was changing hands for \$16.50 a share, about half its IPO price of \$31, although three times its 2009 low.

### Flying Too Close to the Sun

Before the Blackstone IPO had been completed, the pendulum reached one extreme and began, slowly, to swing back in the other direction, gathering speed as it went and culminating in the Wall Street debacle of 2008. During the months that elapsed between the two IPOs, nearly everyone on the Street—from veteran regulators to the greenest traders—recalls experiencing some kind of eureka moment: a point in time where they stopped what they were doing and reflected to themselves that the good times they were experiencing were unsustainable. For some, the warning signal was a particular deal that made them realize just how much risk their institution and the rest of the market was accepting without question. For others, it was an offhand remark by a colleague, or being confronted with the kind of careful research presented by a handful of Wall Streeters such as Mike Gelband to their colleagues and bosses.

In the early spring of 2006, during the celebration of the stock exchange’s IPO, the warning signs were subtle and articulated only by those willing to be provocative and challenge the status quo. Even months later, few were willing to listen to Gelband and others like him, those whom Wall Street CEOs such as Fuld were quick to label as false prophets of doom and professional worrywarts. After all, fee income and profits at investment banks and other firms hit

record levels in 2005, for the fifth year in a row; so, too, did compensation. Collectively, Wall Street firms pocketed \$34.1 billion in bonuses in 2006. At the annual Robin Hood Foundation gala that December, the hedge fund managers who had founded the antipoverty charity took from the rich (themselves) and gave a record \$48 million to the poor of New York City.

As the weeks passed and the clock ticked down to the Blackstone IPO in mid-2007, the warning signs became more pronounced. Crude oil prices had been rising, putting a crimp in the budgets of those who, unlike Schwarzman, didn't have billions in spare cash to cover the increased costs of heating even one home. But with twenty-twenty hindsight, one would have to say the real party pooper was the Federal Reserve, which had begun raising interest rates back in June 2004. Until then, policy makers had spent some three years flooding the American financial system with cheap capital in hopes of staving off a sustained period of recession and averting deflation in the wake of the stock market crash that had begun in 2000. That prolonged period of readily available, ultracheap debt fueled the boom in private equity deal making that made private equity firms such as Blackstone so superficially appealing, as well as generating other trading and underwriting fees for fixed-income bankers across Wall Street.

It also distorted the perception of the risk of many transactions. Why worry that many of the new asset-backed securities being repackaged by Wall Street involved so-called subprime credit card receivables and mortgages—debt owed by borrowers with tattered credit histories? Low interest rates would cover a multitude of sins, and in the meantime, there were rich fees to be harvested. Until there was evidence that Wall Street's hubris, in the shape of its quest for more and more profitable fee-generating business, had collided head-on with the forces of gravity, no one on Wall Street wanted to worry. "Why would we borrow trouble?" says one former senior Wall Street executive. "We had to keep making money, keep our shareholders happy."

#### The Quest for ROE

Keeping shareholders happy had been the name of the game on

Wall Street ever since the first big wave of investment bank IPOs culminated in the decision by Bear Stearns to go public in 1985 and Morgan Stanley to follow in 1986. By the early 2000s, a tidal wave of consolidation and the collapse of the regulatory barriers that had once separated investment banks and commercial banks had reshaped the competitive landscape dramatically. Just as the changes in the 1960s had pushed many firms out of the business, the trends of the 1990s caused bank and investment bank CEOs to question their ability to go it alone. Technology costs were soaring; paying key employees enough to stop them from jumping ship and heading off to work at hedge funds or buyout shops drove up expenses, as did maintaining a global footprint. Meanwhile, profits from traditional businesses, such as trading, were continually under pressure.

For many Wall Street institutions, the answer seemed to be joining forces with a giant global institution. The U.S. division of UBS, the Swiss powerhouse bank, acquired PaineWebber in 2000, ending the latter's 120 years of independence. (The PaineWebber brand name vanished three years later.) Credit Suisse, UBS's rival at home in Switzerland and overseas, had become an aggressive investment banking competitor to firms such as Goldman Sachs and Morgan Stanley in the late 1980s, when it snapped up First Boston and its powerhouse M&A division, which employed two of the biggest buyout bankers around, Bruce Wasserstein and Joseph Perella. (Wasserstein died suddenly in late 2009 at the helm of Lazard, while Perella now runs his own boutique, Perella Weinberg Partners.) It followed that up with the purchase in 2000 of Donaldson, Lufkin & Jenrette.

The big U.S. banks were just as interested in getting a share of Wall Street profits that, in good years, dwarfed the skimpy margins they could earn from commercial banking operations. Sanford "Sandy" Weill got the ball rolling by forming a new financial services behemoth, Citigroup, which would bring together a major bank (Citibank) and an insurance company (Travelers Group). Back in 1997, Wall Street's Salomon Brothers ended nearly eighty years of effective independence when it agreed to be acquired by

Travelers Group; when Weill created Citigroup, he brought together a commercial and a major investment bank for the first time since the Depression-era passage of the Glass-Steagall Act. Weill's 1998 deal forming the future Citigroup violated that law, but Weill was given a two-year waiver; sure enough, in 1999, an obliging Congress officially repealed the crucial parts of Glass-Steagall and opened the door to the creation of other financial conglomerates. J.P. Morgan became JPMorgan Chase; other players, including Bank of America, became viable competitors to the traditional stand-alone investment banks on Wall Street. One after another, small investment banks sold out or were acquired by their larger rivals, with Deutsche Bank picking up Alex. Brown. Chase had acquired Hambrecht & Quist before its own purchase by J.P. Morgan. NationsBank purchased Montgomery Securities and later merged with BankAmerica to become Bank of America.

Now traditional Wall Street firms such as Morgan Stanley, Bear Stearns, and Lehman Brothers found themselves jostling for deals and profits with new or suddenly stronger players in the investment banking arena, such as Citigroup, UBS, and J.P. Morgan, all of which had vast amounts of capital at their disposal. It didn't matter whether they had originally been commercial banks or investment banks; all were now engaged in a relentless battle to maximize their return on equity. "The higher the ROE, the higher the book value of the investment banking operations and therefore the higher the stock price can climb," explains Jeff Harte, an analyst at Sandler O'Neill who has been studying the investment banking universe for many years. "It tells you how hard the bank's managers have been making the capital work, and how good they are at doing their job."

A bank can boost its ROE by moving into higher-margin products or into business areas that don't require it to use a lot of its own capital (one reason so many institutions are eager to move into wealth management), or by using leverage, which is borrowed money. Between 1975 and 1984, securities underwriters reported an average after-tax ROE of about 16.2 percent. Commercial banks had a smaller return on equity because their equity base tended to

be much larger; in the same period the ROE of commercial banks averaged 12.3 percent.<sup>8</sup> By 2000, average ROEs had crept higher, even as traditional high-margin businesses came under pressure. Three years later, as both the financial markets and the investment banking industry began to recover from the dot-com blowup and the Enron and WorldCom governance scandals, a gap started showing up in the ROE data.

Goldman Sachs was pulling ahead of the pack decisively: in 2004, it generated an ROE of 19.8 percent while perennial rival Morgan Stanley earned 17.2 percent, Citigroup investors were rewarded with 17 percent, and Bank of America posted an ROE of 16.5 percent. Bringing up the rear was Merrill Lynch, with an ROE of 15.7 percent. Among the major Wall Street players, the only institution able to challenge or surpass Goldman in the ROE sweepstakes was Bear Stearns, which, thanks to its aggressive use of leverage and willingness to put its capital to work on its proprietary trading desk, earned an ROE of 19.1 percent.<sup>9</sup>

“The call went out around the Street—we had to beat Goldman’s ROE,” says one former top banker who worked for a rival firm. “Every quarter, there was a debate over how we could reduce equity and increase leverage to make the ROE look better, over ways to squeeze an extra penny or two out of each of the business units.” The pressure on Wall Street’s CEOs and CFOs made them look, once again, at the fate of Phil Purcell at Morgan Stanley. Overlooking Purcell’s shortcomings, they focused on the fact that it was discontented shareholders who had spearheaded the coup d’état. Had Morgan Stanley posted a higher ROE in 2004 (when it trailed all but one of the four other top investment banks), they figured those investors wouldn’t have been quite as eager to oust Purcell. “It was very, very apparent to every CEO on Wall Street that Phil Purcell had been run out of Morgan Stanley because he couldn’t keep up with the ROE that Goldman had, because he wasn’t using leverage enough and taking enough risks,” the former banker adds.

The pressure on the rest of Wall Street to keep pace with Goldman Sachs continued to grow as Goldman’s ROE increased and

the gap between its performance and that of its rivals widened. In 2005, Goldman reported an ROE of 21.9 percent, climbing to 33.3 percent in 2006 and again in 2007. At Bear Stearns, meanwhile, 2005's ROE actually fell, to a measly 16.5 percent, as did that at Morgan Stanley, which hit 15.9 percent. At Merrill, it rose to 15 percent and up another fraction to 15.7 percent in 2006; Citigroup saw ROE rise to 17.5 percent in 2005 and then 17.9 percent in 2006. Wall Street was motivated to catch up with Goldman, since a hefty ROE was usually followed by an equally large payday for employees. In 2007, for instance, when Goldman paid an average of \$661,490 to each of its employees, those at Lehman Brothers earned about half that, or \$332,470.<sup>10</sup>

Chasing Goldman Sachs was a risky proposition. "Goldman was posting those kinds of returns because of decisions it had made years ago. When, after the downturn in 2000, all the other investment banks really cut back their exposure to risk and walked away from their risky business lines, Goldman Sachs didn't," Harte points out. In other words, they had been thinking strategically when their rivals hadn't been focusing on the long-term opportunities at all. They had learned to zig when others zagged.

Elsewhere on Wall Street, the perception was that Goldman had relied solely on risk taking—borrowing to finance proprietary trading and investments—and that firms that hadn't kept up had failed to do this as thoroughly or as adeptly as Goldman. That implied that the problem could be quickly reversed if Goldman's rivals just hired the right people, focused on the right products, and pursued the right strategies. Some of Goldman's rivals, like UBS, hired consultants to advise them on how to keep up with Goldman. At Citigroup, managers approached Bob Rubin—the Goldman Sachs alumni now playing a senior strategy role at the firm since becoming a director—with ideas for how to beat Goldman at its own game; aggressive as he was, Rubin firmly rejected many of the ideas, say people familiar with the events; Citigroup simply had neither the talent nor the risk management skills to make it worthwhile. "Part of the reason that didn't happen the way they expected was that they missed out on the fact that Goldman had



been investing in things like building up commodity trading in Asia long before 2003,” when commodity markets ignited, Harte adds. When Goldman’s ROE surged and investors in its rivals demanded that they do what it took to match those gains, taking two or three years to design and implement a long-term strategy wasn’t an option. “The only way to accomplish what investors wanted as rapidly as they wanted was [by] taking on more leverage and getting more deeply into riskier businesses, or at least businesses that, if you were evaluating them properly, had more risk in them than might appear on the surface.”

### Chasing Market Share

By the spring of 2006, the battle for market share was at its most feverish. Across Wall Street, bankers deciding whether to undertake a new piece of business never asked themselves whether that transaction was good value for investors or even their clients over the long term. Nor did they seem to question whether the short-term rewards (the fees, higher profit margins, and higher ROE) made sense in light of the longer-term risks to the investment bank, its clients, or the financial system. The only question that mattered was whether the deal could be done and how much the institution could earn from it.

The risks associated with the securities the banks were packaging or underwriting were less important than the bank’s ability to shift that risk off to someone else—specifically, to transfer it to an investor. Buyout banker Tom McNamara knew he would be viewed as less than a team player when he questioned his boss about a large private equity transaction that took place in the autumn of 2006. In the same way that subprime borrowers were buying homes with a 5 percent down payment rather than the traditional 20 percent, the buyout firm proposed to invest only a fraction of the equity typically committed to deals of this sort. McNamara’s boss, he recalls, looked at him and asked, “What’s your problem? Can’t you sell the [junk bonds and leveraged loans]?” McNamara,

in a bid to explain his concerns, began to reply, “Yes, but—” only to have his boss cut him off. “That’s all I need to know. If we don’t do the deal, [our biggest rival] will. So do it.” McNamara never again questioned a borderline deal, however risky it looked to him.

That pattern was the same across Wall Street. “How can a loan officer who is under pressure to produce loans realistically say, ‘Maybe we should sell less loans?’ and keep their job,” said Mike Mayo in his FCIC testimony. Even Mayo, theoretically an independent analyst, experienced the backlash. When he wrote critically about compensation issues within the banking world in the late 1990s, some of the Wall Street institutions he was charged with monitoring began to block his access to the data he needed to do his job. “The reaction ... was that these issues were none of my business.” He began disclosing the lack of access to his clients and testified to Congress about the problem. “If I face a backlash even after I testify to Congress on backlashes,” then why expect more from someone at the heart of the system? Mayo queried.

Certainly, none of the clients questioned the readiness to make a deal on the part of Wall Street. “We examined each deal in a vacuum,” admits Jake Martin, the private equity firm executive. Looking back, he says, it’s easy to understand why buyout fund managers such as himself and their bankers never moved beyond thinking how to do each individual deal long enough to consider the effect on the financial system of all that low-cost, high-risk borrowing. “It’s a flaw of human nature.” Martin says no one stopped to think about the cumulative effect of all this leveraged lending. Now, he acknowledges, it should have been obvious that those large and risky loans were going to make any downturn far worse than it otherwise would have been. “When everybody is doing exactly what you’re doing, that is the time to stop and question what it is you are doing,” he now says.

In 2006, the cumulative impact of all that frenzied deal making was showing up in the profit statements posted each quarter by Wall Street’s investment banks. One after another, they announced big jumps in revenue, earnings—and, of course, ROE. Back in 1996, Morgan Stanley had earned \$22.1 million in fees handling a dozen

mergers for private equity clients, and a total of \$52.1 million from all of the investment banking mandates those funds had awarded to it. In 2006, the firm earned \$271.7 million in M&A fees alone, and \$520.7 million from sponsors in all kinds of investment banking fees. Not only were those private equity transactions growing in number, but the rate of growth in profitability (and thus contribution to the ROE) dwarfed that of conventional transactions. In 1996, advising on an investment banking transaction for a sponsor earned Morgan Stanley an average of \$1.3 million; a decade later, the average fee had soared to \$3.35 million. No wonder McNamara's bosses didn't want to stop and question the deals they were working on, any more than a buyout manager wanted to discover that his bankers were suddenly insisting they would only finance his deals on more conservative terms. By comparison, the rate of growth in fees paid by clients for routine investment banking transactions was far more modest: the average transaction earned the bank only \$1.9 million, up from \$1.35 million in 1996.<sup>11</sup>

The bankers who spent their time frantically cobbling together leveraged loan packages for their buyout firm clients and CDOs stuffed with more and more questionable mortgage loans, coined a new phrase. When one voiced a qualm, another would toss out the acronym "IBGYBG," or "I'll be gone; you'll be gone." In other words, by the time the chickens came home to roost—by the time the deal eventually soured and left investors demanding explanations—the bankers in question would have long since pocketed their bonuses and moved on. None of them, it seemed, spared even a thought for the institutions for which they had worked and that would be left behind, much less for the financial system.

### The Thundering Herd Runs Amok

The hunt for ROE would prove to be particularly dramatic at Merrill Lynch, the ninety-two-year-old investment bank best known

for the strength of its vast retail brokerage network, dubbed the “thundering herd.” While Morgan Stanley and Goldman Sachs had earned their investment banking chops by working with corporate clients to underwrite stock and bond issues and advise on mergers, Merrill traditionally demonstrated its clout by selling those issues via its horde of brokers. The problem was that simply acting as the middleman or gatekeeper in plain-vanilla transactions was no longer the best way to earn a respectable ROE. Merrill’s board of directors had handed CEO Stanley O’Neal a clear mandate to make the firm competitive, by which they meant generating a higher ROE. At the end of 2005, Merrill’s ROE was only 15.7 percent, compared to the average for the investment banks of 18.4 percent.<sup>12</sup>

That’s when directors approved a new compensation policy: the more O’Neal and his chief lieutenants could boost the firm’s ROE, the more generous their compensation packages would become. Now O’Neal had an explicit incentive to do what he wanted to do anyway—transform “Mother Merrill” into an elite Wall Street institution that could be spoken of in the same breath (without irony) as Goldman Sachs. O’Neal was convinced that the way to do this was to push Merrill into new business areas, away from its traditional reliance on the now stodgy business of underwriting and selling stocks and bonds. He told everyone on Wall Street that he intended to take Merrill in the direction of becoming a principal player in the world of trading and as an investor. In 2006 he demonstrated just how to do so and hit the ROE targets set for him.

Even as the compensation committee was drawing up its new rules the previous year, he and his senior executives had begun to take the first steps to deliver what investors and directors wanted. They started by carving out a role for Merrill in what would become (as of that date) the second-largest leveraged buyout in history, the \$15 billion purchase of car rental chain Hertz from Ford in December 2005. It collected fees for advising buyout firms Clayton, Dubilier & Rice and the Carlyle Group on the deal, and pocketed more fees for underwriting the billions of dollars of loans and bonds needed to finance the transaction. But Merrill Lynch also

became an investor alongside the two private equity firms, which collectively invested only \$2.3 billion of their own money in the transaction, using the debt that Merrill raised to pay for the rest. Within ten months, Merrill had recouped \$400 million of its \$748 million share of that equity stake, thanks to a series of “special dividends” that Hertz paid its new owners. One of those special dividends was paid out of the proceeds of Hertz’s IPO in November 2006, which also generated (not coincidentally) more underwriting fees for Merrill. By the end of 2006, one analyst calculated that the firm had already doubled its money on the Hertz investment—even without taking into consideration the value of all those fees. Merrill beat out every investment bank except Goldman Sachs for the title of most profitable firm on the Street that year, and generated more profits than it had in its history.

Merrill began investing more aggressively alongside private equity firms in other buyouts. When its bankers visited executives at HCA, America’s largest for-profit hospital chain, in early 2006, they arrived with a decidedly different kind of pitch, one that HCA wasn’t accustomed to hearing from bankers. Instead of suggesting that HCA buy some more assets or even bid for a rival, Merrill proposed that it would put together a “club” of buyout funds—itsself chief among them—to take HCA private in a leveraged buyout. After recovering from their astonishment, the HCA honchos agreed to be acquired by a group that brought Merrill together with Bain Capital and KKR. The \$31.8 billion deal would finally eclipse the KKR-financed acquisition of RJR Nabisco in 1989 and become the largest-ever such transaction. That’s what grabbed the headlines; left unanswered was the question of just how the buyout investors would add value.

“This deal was a real red flag,” recalls Marty Fridson, who analyzed the junk bonds being sold to finance the transaction. “What was the plan for improving HCA? Nothing.” There were whispers of a secret plan to sell a bunch of hospitals and restructure the company, but nothing was announced or materialized, he says. “Really, they were just buying a company that was selling at a fifty-two-week low and using borrowed money. Basically, they were

saying to their own investors, 'There aren't any more beaten-up or battered companies that need us to help fix them.... So we're going to buy stocks in the public market with borrowed money and, knowing that stocks go up over time, count on that to help us earn a good return.' " Fridson points out that investors could have done the same thing for themselves by purchasing HCA stock on margin—and they wouldn't have had to pay a 2 percent fee or 20 percent of the profits to the buyout funds. "But that wouldn't have had the allure of being invested in a top buyout firm," Fridson adds with a dash of cynicism. Sure enough, one of the partners—KKR—had marked down the value of its stake in HCA by a third by early 2009, according to a regulatory filing.

Still, in the short run, O'Neal's team was finding other ways to make all these new fees and other earnings from deals such as the HCA buyout generate a bigger bang on the bottom line that had more to do with accounting than investment banking. One logical strategy to boost ROE and make it look more impressive was to reduce the amount of equity on the investment bank's balance sheet; the smaller the number of shares over which those earnings must be divided, the higher the ROE. So the firm spent \$9 billion to buy back stock and borrowed to add assets to its balance sheet. Instead of selling its own stock at the top of the market—Blackstone's strategy—Merrill was buying it back.

Rivals and risk managers understood why O'Neal and the board had signed off on the plan. Still, some questioned the wisdom of the strategy, despite the record-breaking earnings Merrill posted quarter after quarter in 2006. "They were counting on the good times keeping going, and that their ability to unwind the risky, high-leverage deals they were doing would always be there," says one hedge fund manager who says he decided to sell Merrill Lynch stock short, betting that its price would decline, after hearing of the stock buyback plan. "Okay, so they maximized their ROE in the short term, but then they took away the capital cushion they might have used to cover any losses when things went wrong." Anyone with any sense, he adds, knew that a reckoning was just a matter of time.

But within Merrill's executive suite, no one seemed to be looking further ahead than the next three-month earnings announcement, at least when it came to risk. As well as the profits and fees associated with the investment in Hertz and other transactions in which it was a principal rather than an intermediary, Merrill had made \$7 billion using its own capital to make trading bets, up from \$2.2 billion in 2002. In January 2007, a triumphant O'Neal reported "the most successful year in [Merrill Lynch's] history": the investment bank had earned a record \$7.5 billion and its ROE hit 20.7 percent, beating Citigroup, Bear Stearns, and even Morgan Stanley. If the company needed its own fleet of Brink's trucks to haul away its gains for the year, so would O'Neal. Although his salary for the year was a relatively paltry \$700,000, his total compensation package soared to \$48 million. Few within the firm seemed to be concerned that by the time the Blackstone IPO was priced, Merrill was sitting on a record \$1 trillion in assets, more than double the level of four years earlier.

Working more closely with private equity firms wasn't the only high-risk business that Merrill Lynch had pursued as part of its quest for a higher ROE. Another source of hefty profits in 2006 and into the first half of 2007 came from a corner of the banking world that was still further away from Merrill's traditional area of expertise and Wall Street's core functions. Merrill had joined what was becoming known as the shadow banking system, moving beyond assisting buyout managers to saddle their portfolio companies with artificially cheap debt loads to help America's homeowners saddle themselves with artificially cheap debt in the shape of mortgages and home equity lines of credit. Drawing on new technology as well as their sales network—they could resell their structured products to clients in the same way that they marketed stocks and bonds—Merrill could earn outsized fees for packaging and repackaging home mortgages and other income-generating assets for resale to yield-hungry investors. It had started small—securitizations amounted to only \$350 billion or so in 1981—but by 2001, Wall Street underwrote \$3.3 trillion of newly securitized bonds.

The market for residential real estate had hit \$18.4 trillion by the end of 2004, and the mere idea of finding a way to link such a gargantuan market with the ultraliquid debt markets was alluring. Making it possible was the fact that investors were fed up with the low returns that accompany low interest rates and were clamoring for bondlike investments that generated higher yields in much the same way that investment bank shareholders were clamoring for higher earnings and an ROE to match that of Goldman Sachs. Maybe a push into structured finance could keep both groups happy?

### The Mortgage Machine

In the summer of 2006, as one team of Merrill bankers and investors prepared the way for Hertz's IPO in a few months' time, another group was negotiating the \$1.3 billion purchase of First Franklin, a San Jose, California-based mortgage origination "machine" that had underwritten some \$29 billion of home loans the previous year. The motivated seller was National City Corp., a bank based in Cleveland, Ohio; perhaps its executives, like those of Blackstone, were relieved to be getting out of at least part of the mortgage business at what already seemed to be the peak of the market. For its part, Merrill Lynch was an equally motivated buyer. Its mortgage bankers were relieved to have another way of feeding its securitization habit, one the firm had acquired early on in Stan O'Neal's tenure as part of his push to boost risk-taking businesses and ROE.

Securitization was one of the first-generation innovations on Wall Street in the post-Mayday environment, pioneered by Lew Ranieri and his colleagues at Salomon Brothers. "Like all innovations, it started out as a great idea and ended up in craziness, with loans structured in ways that only a few Ph.D.'s can understand, and where there's no obvious purpose for its existence," says Rob Kapito of BlackRock.

Kapito was one of the next-generation innovators in the securitization market during his years at First Boston (later absorbed



by Credit Suisse), where he worked for BlackRock's founder, Larry Fink, to develop what was then referred to as the collateralized mortgage obligation (CMO) market in the early 1980s. He watched the market explode in both size and complexity. The CMO was another way to put together a pool of mortgages and make them appealing investments by splitting them into tranches, or slices. The topmost tranche—the senior layer—would pay less in interest but would be of lower risk or higher quality, or perhaps be shorter term in length; in one alternative structure, one tranche would consist of bonds that sold at a discount and paid no interest (zero-coupon bonds), while the other would be an interest-only tranche that would fluctuate in value along with interest rates (as investors prepaid their mortgages, the flow of interest income would taper off). “The whole idea was to give investors a security that met their specific needs—low risk, or high yield, or shorter duration,” notes Kapito. By the late 1980s, he adds, the CMO market was starting to run amok. “All of a sudden there were structures out there that didn't make sense, Ph.D.'s making bonds look better than they really were—and they blew up. And we all said, ‘Okay, let's get back to something simpler.’ ”

In the era of rock-bottom interest rates that began in the fall of 2001, when the Fed started slashing interest rates, and reached its peak in June 2003, when key lending rates fell to 1 percent, it made sense for both sides of the market—and for bankers—to take another look at the way home mortgages were securitized; at this point, new mortgage origination had hit a record of \$3.9 trillion. Many homeowners wanted to refinance their properties, while new buyers were being lured into the real estate market by the combination of ultracheap financing and ample liquidity, thanks to the de facto national financing market that securitization had created during the 1980s. Not surprisingly, issuance of mortgage-backed securities soared. They also became more complex, and thus more profitable for the Wall Street firms who were buying these mortgages from savings and loan institutions as well as the growing array of nonbank institutions that had set up shop explicitly to make these loans.

In 2000, mortgage-backed-security-related transactions generated only \$690.7 million in fees; by 2006, that had climbed to \$2.3 billion. And the average transaction generated \$1.8 million in fees in 2006, up from \$1.3 million six years previously.<sup>13</sup> It didn't hurt, either, that a bank that could funnel its mortgage loans into some kind of structured product—especially a highly rated CDO—could reduce the amount of capital it had to set aside to guard against writedowns. Even trading in these securities was becoming a money spinner. All that home-buying activity sent housing prices soaring: the median house price jumped 27.6 percent in the three-year period between 2001 and 2004, when Federal Reserve policy makers decided to begin pulling away the punch bowl full of cheap money. In contrast, for more than a century, housing prices had risen less than 1 percent a year. That rise in valuation triggered still more activity for mortgage originators and parts of the shadow banking system, as borrowers refinanced their mortgages or took out lines of credit secured by the equity that had suddenly appeared.

Merrill Lynch wanted a piece of that business, and O'Neal hired Christopher Ricciardi from Credit Suisse to get it for them. Ricciardi was an expert in collateralized debt obligations, around which the latest incarnation of the mortgage finance market was built. In the latest twist on the CMOs that Kapito and Fink had structured at First Boston in the 1980s, CDOs were divided up by risk level, with higher-risk pieces carrying a higher yield; some tranches won a triple-A credit rating from Moody's and Standard & Poor's, and offered a small but still appealing premium over other top-grade securities. Part of Ricciardi's job was to make sure he could get the mortgages he needed in order to structure the mortgage-backed bonds and then the CDOs.

Under Ricciardi, whose efforts ultimately propelled Merrill into first place in the CDO league tables, Merrill Lynch was a particularly aggressive bidder for the mortgages that mortgage originators were churning out at an increasingly rapid rate to meet the insatiable Wall Street demand. By 2004, those mortgage originators were convinced that Merrill was buying market share—

in other words, it was paying more than its rivals believed the mortgages were worth just in order to obtain the loans to stuff into their CDO creation machine. By the end of 2005, CDO issuance had nearly doubled from 2004 levels, hitting \$271.8 billion.<sup>14</sup>

But 2006 and the first few months of 2007 would mark the peak of this bull market and deliver some of the first major warning signs of the apocalypse that was taking shape here just as in the private equity arena. At least it did for those who, like Lehman's Gelband, were looking for any signs that the boom was really a bubble in disguise. Fitch Ratings, a credit rating agency, slapped an alert on one subprime lender as early as the final months of 2003. By early 2004 the Federal Reserve system (which regulates banks) began picking up signs that the quality of the loans being made by banks, nonbank mortgage originators, and others was deteriorating. That year CDO issuance would peak at \$520.6 billion and subprime lending would also reach new highs, five times the level of five years earlier. Lenders were scrambling to feed the Wall Street mortgage machine, even if that meant lending money to people who could present no evidence that they earned enough to keep up payments on the loan or whose credit ratings were wobbly. They developed new structures to enable them to rationalize signing off on these risky mortgages, including "no-doc" loans (also known as liar loans), which didn't require any proof of income, and interest-only loans. Among the most toxic were mortgages with ultralow teaser rates that would reset later at much higher levels that the unwary borrowers often could not afford.

The aggressive marketing of mortgages to fuel the CDO creation machine tipped over into fraud, a number of former salespeople have admitted. Within a month of the day he started working as the head of the mortgage fraud investigations division at Ameriquest, one of the biggest subprime players, Ed Parker later told the Financial Crisis Inquiry Commission that he had spotted signs of fraud in the loans being made. The response? Those whose bonuses depended on the machine working smoothly and at maximum velocity complained that Parker "looked too much" into the loans. By November 2005, he had been demoted, and then—evidently

having failed to take the hint—Parker was laid off in May 2006. The reason for the fraud initially surprised Parker and his peers, until they were told to “look upstream.” In other words, they needed to recognize the hunger on Wall Street for more and more mortgages that could be bundled up and resold to investors.

Wall Street itself was doing whatever it could to keep the mortgage machine chugging along. In October 2005, Merrill Lynch had purchased a 20 percent stake in Ownit Mortgage Solutions, one of the growing coterie of nonbank mortgage originators, to keep the mortgages flowing onto its books. Within a few months, Ricciardi had left to launch a specialized CDO investment boutique of his own; he wasn't around to see the value of the mortgage-related assets on Merrill's books spike to a high of \$52 billion from a mere \$1 billion back in 2002.

The CDOs being structured with those mortgages carried increasingly exotic names that gave no hint of the risky nature of the underlying assets; some hinted at prosperity (Golden Key) or the good life (Costa Bella). All generated lavish fees for the Wall Street firms. Every time another \$500 million or so of mortgages were repackaged first into mortgage-backed bonds and then into CDOs, the underwriters picked up \$5 million in fees. BlackRock portfolio manager Scott Amero could boycott the deals when he realized what was happening, but that was it. “Look, I couldn't stop the market; I couldn't stop Wall Street from doing what it was doing,” Amero says now. “All I could do was stop participating in this Wall Street-style food fight as everyone demanded higher yields.”

By the fall of 2006, even Ranieri, the godfather of the mortgage-backed securities market, had sent out an edict banning anyone who worked for him from touching the increasingly poor-quality CDOs.<sup>15</sup> By then, Merrill was negotiating the acquisition of First Franklin, described by the firm in a press release as “one of the nation's leading originators of non-prime residential mortgages” (aka a big subprime lender). Dow Kim, president of Merrill's investment bank, who had taken over the business on Ricciardi's departure and publicly pledged to the team of mortgage bankers that he would keep the good times—and deal flow—rolling.

proclaimed his view that owning First Franklin would enhance “our ability to drive growth and returns” higher.

It should have already become clear that subprime lending, whatever it had done for the ROE of Merrill Lynch and other investment banks in earlier days, was more likely to be a source of losses than profits in the years to come. Merrill announced the First Franklin transaction in early September; by December, when they forked over the purchase price and celebrated the closing, the investment bank was in the midst of a spat with its 20-percent-owned mortgage provider, Ownit. Some of the loans that Ownit had fed to Kim’s banking team were going sour within months of origination, just as Amero had discovered, and Merrill was pushing the firm to buy back the loans.<sup>16</sup> Ownit, balking, closed its doors in December, just as First Franklin became part of Merrill Lynch. While CDO issuance would keep climbing until the late spring of 2007—about the same time that Blackstone completed its IPO—and would peak at \$178.6 billion in that three-month period, it was becoming increasingly clear that hyperaggressive risk taking on Wall Street was no longer a recipe for quick and outsized profits.

The love affair between Wall Street and extreme banking had been intense, exciting, and highly lucrative during the fifteen months that separated the IPO of the New York Stock Exchange and that of Blackstone the following summer. Everyone had been eager to keep the music playing and to continue dancing. But in their mania to generate ever higher returns on equity, Wall Street institutions had succeeded in distorting the financial grid beyond all recognition as they pursued one fee-generating opportunity after another. There was no possible reason for any banker to create a CDO-cubed, as bankers acknowledged in the calm that followed the Wall Street storm of 2008. “But we did it anyway,” one former Citigroup banker admits somewhat sheepishly.

The irony was that Merrill Lynch’s frenetic dealmaking in pursuit of higher returns on equity and a dominant market share in the CDO business ended up driving some of the final nails into the investment bank’s coffin. In a move that was becoming all-too-typical. Merrill became its own best customer: As the FCIC

reported, 134 of the 142 CDOs Merrill built and sold between 2003 and 2007 contained at least one slice of another Merrill CDO; anyone digging into a Merrill Lynch CDO during this period was likely to find that at least 10 percent of the collateral was made up of securitized mortgages from another Merrill CDO. The problem? Too few investors had the time, resources, or inclination to do that much digging while Merrill Lynch had every incentive to just keep chugging along, dumping whatever it couldn't sell into the next CDO that rolled off the assembly line.

### The Chickens Come Home to Roost

For centuries, the coronation of a new pope in the Roman Catholic Church was accompanied by an odd custom. As the new pontiff, arrayed in all his glory, walked toward St. Peter's Basilica, the master of ceremonies would halt the procession three times, fall to his knees, and raise a small silver platter on which burned a piece of cloth. "Sic transit gloria mundi," he would intone, urging the new pope to remember that all worldly glories vanish in time. Unfortunately, no one was on hand to remind Wall Street that the laws of nature and the rules of gravity still applied to them. While rising interest rates and the perils of reckless lending to homeowners and leveraged buyout deals alike would be slow to register on the minds of Wall Street bankers (Gelband being one of the rare exceptions), within days of the Blackstone IPO being completed, it was clear that Wall Street was in for trouble.

Wall Street's investment banks and their leaders would end up paying a heavy price for their obliviousness. In March 2007, Bear Stearns proudly proclaimed in a proxy filed with the SEC that its ROE was among the highest of its key competitors. A year later, its ROE had slumped to 1.9 percent and JPMorgan Chase stepped in at the behest of the Federal Reserve to prevent the entire financial system from having to pay too great a price for the risks that Bear Stearns had taken to beat its rivals in the ROE sweepstakes. "I guess, in hindsight, you could say that was a bit of hubris," admits former

Bear banker Tom Casson. By the summer of 2007, Merrill Lynch had \$31 billion in leveraged loans sitting on its books that it needed to sell, while Citigroup had another \$57 billion—but there were no willing buyers. They were stuck owning securities that they had hoped to be able to sell to yield-hungry investors; now that the music had stopped, they were on the banks' balance sheets. "We did eat our own cooking, and we choked on it," John Mack later admitted to FCIC commissioners. One by one, buyout deals—some announced, some still being negotiated—began to fall apart.

The most dramatic change occurred on Wall Street itself. Bear would be absorbed by JPMorgan Chase, Lehman filed for bankruptcy, and Merrill sought refuge in the reluctant embrace of Bank of America, whose top executives reeled at the size of the losses they were expected to absorb along with Merrill's operations. (Eventually, Merrill's losses would be so large as to effectively erase the investment bank's profits for the last eleven years; those at Fannie Mae eradicated twenty-plus years' worth of profits, according to calculations presented by Kyle Bass of Hayman Advisors LP to the FCIC.) Only later did it become public that Bank of America CEO Ken Lewis wanted to use those enormous write-offs as a reason to walk away from the deal, which undoubtedly would have led to Merrill's filing for bankruptcy protection. Only thinly veiled threats from Bernanke and Treasury secretary Hank Paulson kept him onboard, and by the fall of 2009 he had been fired as chairman of the company (by shareholders, at the company's annual meeting) and forced to step down as CEO (by the board of directors).

Lewis wasn't the only casualty. John Thain resigned after negotiating the sale of Merrill, although he soon returned as CEO of CIT Group, a commercial lender that had filed for bankruptcy in 2009. John Mack, exhausted by the effort to save Morgan Stanley, announced his decision to retire as CEO, although he stayed on as chairman. Across Wall Street, bankers whispered that the chaos of the previous two years had contributed to the sudden death at age sixty-one of Lazard's Bruce Wasserstein. The legendary deal maker died two days after being admitted to the hospital with an irregular

heartbeat in October 2009. And as for Richard Fuld, who had ousted Mike Gelband for not being a team player? Months after his firm collapsed, a sleepless Fuld spent the evenings wandering through his mansion in Greenwich, Connecticut, a community that was also home to many of the hedge fund managers who were among his firm's biggest and most lucrative clients. "How did it all go so disastrously wrong?" he wondered.<sup>17</sup>

There would be no more record-setting deals from which the surviving institutions could reap big fees. Among the last to collapse was the massive \$48.5 billion proposed leveraged takeover of giant Canadian telecom concern BCE Inc. by a group that included the veteran buyout firm KKR. Announced only days after the Blackstone IPO, the transaction would have become the largest leveraged buyout in Wall Street history. Instead, it staggered along, half alive, as bankers and buyout firms tried frantically to pull off the deal in the months that followed the demise of Bear Stearns. The events of September 2008 were the last straw; the BCE deal was formally laid to rest two months later.

"Old" and "new" Wall Street suffered equally in the downturn and in the subsequent market chaos that accompanied the "deleveraging," as the process of unwinding all the complex debt instruments and structures was referred to. At the New York Stock Exchange, the lack of leverage started to show up in the shape of declining trading activity by hedge funds, the exchange's most lucrative group of clients. Thanks to that trend (as well as ongoing concerns about competition at home and in the exchange's new European business), NYSE Euronext's shares were trading at \$36.62 at the time of this writing, down from their \$81 first-day price. Blackstone, for its part, was changing hands for a mere \$14.95 by the spring of 2010. Citigroup, a stock worth more than \$50 a share in early 2006, could be picked up for less than \$1 a share in early 2009. Veteran bankers were fleeing to join start-up firms, fearful of regulation that would limit the scope of their activities or even—heresy!—the size of their bonus checks. Wall Street was on the verge of yet another transformation. What remained unclear was perhaps the most important question of all: whether this would



return the Street to its roots as an intermediary or carry it further away from its core function as the money grid.



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PART II

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GREED, RECKLESSNESS, AND NEGLIGENCE: THE  
TOXIC BREW

On Tuesday, September 16, 2008, the major players in the unfolding financial crisis gathered in the Oval Office at the White House in order to brief President George W. Bush on the magnitude of the catastrophe that was looming. Treasury secretary Henry Paulson warned the president that, only days after Lehman Brothers had filed for bankruptcy and Merrill Lynch had sold itself to Bank of America in a deal arranged over the course of a weekend to prevent itself from following suit, insurance giant AIG was now teetering on the edge of collapse. “How have we come to the point where we can’t let an institution fail without affecting the whole economy?” Bush wondered aloud after listening to his economic and market advisors lobby in favor of a bailout for AIG.<sup>1</sup>

The answer lies in a toxic blend of three elements, all of which were part and parcel of Wall Street by the beginning of the twenty-first century and all of which flowed from the same cultural breakdown on Wall Street itself. Individually, each could have damaged the ability of Wall Street to fulfill its core function effectively and created immense stress on the financial system as a whole, and each is addressed in a separate chapter in this section. But they evolved and reached an apogee almost simultaneously. Together, they would prove to be a recipe for disaster.

All three revolve around human behavior, more specifically on the kinds of incentives that exist on Wall Street to take foolish risks and the disincentives that should be in place to keep that risk taking within reasonable limitations. “The mixture of unlimited capital, limited liability, and incentive compensation inevitably led to testing the levels of risk,” veteran banker Peter Solomon told FCIC commissioners. “It might be argued that public ownership and the compulsion to increase earnings per share propels employees towards greater risk.” Especially when risk taking is so lavishly rewarded: Wall Street’s pay packages rapidly became one of the biggest and easiest targets for its critics, not least because they made bankers who often were no more than moderately intelligent human beings into multimillionaires. “I know my limitations; I know I’m bright enough, but I’m no genius,” says one former senior

banker who toiled at Lehman Brothers and other firms. “Certainly, many of the top guys were only just of average intelligence. But they were being paid for being ruthless and taking on as much risk as possible. The goal was to beat Goldman Sachs at its own game. It was clear to us all that the closer we could come to doing that, the more likely we were to walk away with tens or hundreds of millions of dollars, rather than just become single-digit millionaires.”

Even if Wall Streeters were encouraged to behave with reckless abandon, as long as they generated higher and higher returns on equity, it was still possible for the CEOs and directors of any of the investment banks or institutions such as Citigroup to apply a counterweight to any irrational exuberance that might bubble up as a result. Risk management had been a buzzword across Wall Street for decades. The 1998 collapse of Long-Term Capital Management should have highlighted the vital role that risk management could play in helping a financial institution avert catastrophe, both for itself and for the financial system. Alas, while Wall Street firms paid lip service to risk management, in practice they tended to rely too much on models that even their architects admitted were full of flaws. The problems at the rating agencies were just as bad, if not worse: despite their role as the protector of institutional and individual investors, both Moody’s and Standard & Poor’s had done a shoddy job of designing models that could cope with the most basic possible scenarios. Standard & Poor’s, for instance, admitted to one major player that its housing-price model couldn’t cope with negative numbers; if housing prices declined nationwide, the model would be useless. Even when the models were relatively robust, those using them massaged them to produce the results that were needed, or presented the results in a way that was calculated to get their audience to agree that the risk was manageable.

Jaidev Iyer now is the managing director of the Global Association of Risk Professionals (GARP); his former job was as head of operational risk management at Citigroup. In that role, he watched leaders at Citigroup develop risk management models showing that the bank’s capital was adequate to cover all possible

scenarios, with a 99.97 percent confidence rate. “Think about that. What they were really saying was that the capital was adequate for all but three years out of every ten thousand years!” Iyer understands the reason for Citigroup’s arrogance. “To get a double-A credit rating from Moody’s meant that you had to have that much confidence that your capital was enough to ride out any shocks, and Citigroup wanted that rating” because it would ensure that the company was seen as a stable, solid institution and thus cut funding costs. The problem was that Citigroup was basing its high confidence level on only four or five years’ worth of data. “That doesn’t begin to be enough to tell you what will or could happen, especially when you are dealing with markets and products and strategies that didn’t even exist a decade ago,” Iyer says.

Still, just as it was in the interests of Wall Street’s bankers and traders to take as much risk as possible in hopes of earning outsized bonuses, so it was in the interests of their top managers and even their boards of directors to egg them on rather than rein them in. When Bear Stearns went public in 1985, Wall Street’s investment banks had an average of \$258,677 of capital for every employee. If that figure were merely adjusted for inflation, by 2000 it would have been about \$540,000. In fact, by that year Wall Street had more than \$1 million in capital for every employee, and as much as \$3.5 million at some firms.<sup>2</sup> The pressure was on for those employees to make all that capital pay off by finding new ways to earn returns. And the way to do it wasn’t by becoming more cautious and risk-averse. Behaving like that wouldn’t help Lehman, Merrill Lynch, or Citigroup become the next Goldman Sachs. Rather, they needed to out-Goldman Goldman by taking on more risk.

None of that would have mattered had Wall Street had any effective adult supervision. What the money grid needed in order to protect it from the consequences of the greed, ineptitude, and folly within Wall Street’s institutions was a team of well-compensated, intelligent, and aggressive outside regulators monitoring what those people were getting up to and keeping them honest. And those regulators needed backup from legislators willing to give them both

the resources and the political capital they needed to get the job done.

Instead, the money grid got a regulatory mess: a cat's cradle of agencies with responsibilities and mandates that sometimes overlapped and sometimes clashed. All too often, that web of regulatory supervision left large and increasingly significant parts of the markets, such as derivative securities, almost entirely uncovered. And their staff members—whose ambition, in some cases, was to stop guarding the henhouse for less than \$100,000 a year and quintuple their annual income by joining the foxes in devising new ways to raid it—too often lacked motivation, direction, or support from their political masters.

“Perfect storms happen when you create the opportunity for them to do so,” says Iyer. Teaching future risk managers, he likes to use as a case study the Titanic—the “unsinkable” boat that sank less than three hours after hitting an iceberg in the North Atlantic, taking more than 1,500 passengers to a watery grave. Had Titanic’s builders and captain not been so convinced that their vessel was unsinkable, had there been enough lifeboats, had the weather been better (enabling the lookout to spot the iceberg), or had the iceberg not brushed alongside Titanic’s hull (damaging multiple watertight compartments), the death rate might have been much lower. While it is unclear how many actual deaths can be attributed to the disastrous Wall Street events of 2008 (many bankers tell stories of acquaintances who opted to commit suicide when their firms collapsed or they were laid off as a result of the cost cutting that eliminated more than 300,000 jobs in less than a year), the Street’s great meltdown has certainly had a disastrous impact that has stretched well beyond its boundaries, all because the checks and balances that should have prevented the disaster either weren’t functioning or weren’t even in place to begin with.

Everyone was focused on what Wall Street could do for them, rather than on what they needed to do to maintain the health and integrity of the money grid. The bankers wanted more interesting jobs and career paths, punctuated with lavish paydays. On reaching the corner office, they needed and wanted to beat Goldman Sachs

by generating bigger and better returns. Meanwhile, the regulators wanted a peaceful and uncomplicated life; the politicians wanted votes. Collectively, they displayed a reckless indifference to the extraordinary risks that had become obvious before the credit bubble finally began to burst.

To prevent it all from happening again, like a bad nightmare that we can't escape, we need to do more than get angry about how much Wall Street bankers take home each year in their bonus checks. We need to understand how each part of this behavioral dynamic contributed to the crisis, and find a way to re-create effective checks and balances that encourage the right kind of risk taking but discourage some of the rash excesses of recent years.

By the time the final bill is presented to Congress, the cost of the financial industry's bailout may top \$2 trillion, by many estimates. The immediate catalyst for that massive rescue attempt may have been fear of what would happen if those who should have protected the money grid allowed it to sink like the Titanic. But the reason the bailout, however distasteful, was unavoidable is the same reason that it behooves all of these interested parties to find real solutions to the problems presented by compensation policies, risk management failures, and regulatory shortcomings: the fact that we need a functioning financial system. In all three, participants placed their own interests ahead of those of the financial system. If Wall Street—the money grid—is to survive future shocks, we can't afford to have that happen again.



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## CHAPTER 5

### “You Eat What You Kill”

At first glance, David Rubenstein and John Whitehead seem like unlikely party poopers. Both men had made billions of dollars by rising to the top of the heap on Wall Street and had overseen two of its most powerful institutions. But as the Street celebrated a record-breaking 2006 and plotted how to earn still more fees and proprietary trading and investing profits in 2007, both Rubenstein, cofounder of the Carlyle Group, one of the largest private equity firms, and Whitehead, the former senior partner of Goldman Sachs, were worrying publicly about Wall Street's addiction to easy money, particularly in the form of multimillion-dollar bonus days. “Greed has taken over,” warned Rubenstein at a private equity conference in the spring of 2007.

The eighty-five-year-old Whitehead was even more forthright in an interview with Bloomberg News reporters that May. He blasted the lavish pay packages at his former firm, where the average employee had pocketed \$621,800 in 2006. Goldman's top traders walked away with tens of millions of dollars apiece, and even secretaries could count on a yearly bonus worth a few thousand dollars. That was double what Goldman employees had earned a decade earlier, before the firm had gone public, and 20 percent higher than 2005. It flew in the face of the fact that Goldman traditionally had been more restrained when it came to compensation than many of its Wall Street peers: its bankers were told firmly that a large part of the value they generated was because of Goldman's brand name rather than their individual efforts. Until they became partners, they learned, they would have to reconcile themselves to viewing the firm's high status as part of their

“compensation.”

But by 2006, even Goldman seemed to have joined the bonus party. Not only were the denizens of Wall Street—and Goldman Sachs in particular—already far richer than their counterparts on Main Street (the national wage grew an average of 2 percent that year), they were getting even richer at a far faster clip. Whitehead said he was “appalled” that Goldman was leading the way “in this outrageous increase” in Wall Street compensation. He tried to convince Goldman’s board to donate \$1 billion of its record \$9.5 billion earnings for the year to charity; he had even turned to the Bill & Melinda Gates Foundation for help devising some specific proposals about how such a philanthropic donation could be deployed. Goldman’s active partners weren’t interested, however: their priority was on maximizing returns to shareholders, and a massive philanthropic donation would harm, not help, that cause. Besides, why run the risk of losing its top producers to rivals by donating part of their bonus pool to charity?<sup>1</sup>

Whitehead’s concerns were the exception rather than the rule in 2006. Few on Wall Street demurred when they were handed six-, seven-, or even eight-figure bonus checks that year. Anyone outside the Street who voiced concerns about investment banking compensation policies or levels was largely dismissed as an envious crank who either didn’t have what it took to survive on Wall Street or had chosen a field that wasn’t as lucrative or glamorous as investment banking. Certainly, Dow Kim, co-head of investment banking at Merrill Lynch, likely wasn’t second-guessing his own 2006 Wall Street pay package any more than were the lavishly paid Goldman Sachs bankers of whom Whitehead complained. That year, Kim pocketed a salary of \$350,000 for his efforts, a comfortable sum, if modest by Manhattan standards. But Wall Street salaries are just the tip of the iceberg; in gratitude for his 2006 performance, Merrill’s compensation committee awarded Kim a cash bonus of \$14.5 million and another \$20.2 million worth of stock in the investment bank. His total compensation package was worth \$35 million, one hundred times his nominal salary.<sup>2</sup> But then, Kim was a particularly valuable employee for Merrill Lynch:

it was he who, after the departure of Christopher Ricciardi (the man who had pushed Merrill into the forefront of the CDO league tables), kept Merrill's CDO creation machine churning at an ever-faster rate.

## The Rainmakers Rake It In

As Wall Street's transformation proceeded during the 1980s and '90s, investment bankers who could dream up products and generate outsized profits were increasingly valuable to Wall Street institutions. According to one study of Wall Street compensation, bonuses and salaries became "excessively high" in the mid-1990s and stayed that way until 2006.<sup>3</sup>

Wall Street put a premium on creativity and innovation, at least within those firms that were intent on beating their rivals and maximizing their profits. The result was a jump in demand for investment bankers with more sophisticated skill sets—the ability to structure, evaluate, and trade junk bond transactions, say, rather than just handle the lower-risk Treasury bond trades. However much as Wall Street's elder statesmen might lament the fact, the relentless quest for innovation and new sources of growth inexorably had created a war for talent and fueled runaway growth in salaries and bonuses. Taking a hard line on compensation would have required an investment bank to tacitly acknowledge that they were prepared to forfeit growth—an unacceptable alternative.

At Merrill Lynch in 2006, few employees were more important than Dow Kim, who promised to do whatever it took to keep Merrill ahead of its rivals in the battle to capture the largest possible chunk of the ever-growing market for spinning mortgage securities into CDOs.

In 2006, Merrill created \$147.2 billion of new mortgage securities-backed CDOs, up from \$90.3 billion the previous years; some of the more complex structures could earn Merrill fees of as much as \$15 million for each \$1 billion CDO. That was enough to make Merrill Lynch the top underwriter of CDOs in the country.

from number fifteen in 2002; in the 2002–2007 period, it underwrote one hundred of these vehicles, compared to only seventy-three for Citigroup. And for the folks at Merrill Lynch, that was something to celebrate, rather than worry about. “Every time we went to meet with someone at Merrill, they would speak in hushed, reverential terms about this guy, Dow Kim,” says Mark Vaselkiv of T. Rowe Price. “He and guys like him were leading their firms and Wall Street as a whole into the brave new world of mortgage-based derivatives, and his team worshipped the ground he walked on, it seemed, at least in part because he was making them so much money.”

It was only a matter of months before problems surfaced. Kim told the CDO team to do “whatever it takes” to hang on to market share and seize the lead in the race for the top spot in the league tables, according to allegations by former employees made in lawsuits filed after Merrill’s sale to Bank of America. Even as Kim pocketed his gargantuan bonus, he must have been aware that his CDO assembly line was working almost too well. Kim’s division was turning out more mortgage-backed securities than the firm could structure into CDOs and creating more CDOs than it could sell quickly. By 2006, there were few “real money” investors left in the market, the Financial Crisis Inquiry Commission would later point out; data showed that 80 percent of the mezzanine tranches of CDOs that Merrill originated in late 2006 and into 2007 were sold to other CDO managers. As a result, more of the increasingly risky securitized assets were left sitting on the investment bank’s own balance sheet; by the end of 2006, Merrill had \$44.5 billion in mortgages, CDOs, and other related assets sitting on its balance sheet, up from \$29.2 billion the previous year and only \$15 billion at the end of 2002.<sup>4</sup> At the same time, it was becoming harder and harder to find a counterparty willing to let Merrill hedge the risk that the value of those assets would slump before they could be sold to investors. In May 2007 Kim left the CDO-creation machine he had structured to others to run, and set out to launch his own hedge fund.

Everyone involved in creating, launching, and marketing the

CDOs knew that the size of their bonus depended on keeping the machine humming as rapidly as possible. There was no incentive to holler stop.

## Outsized Pay and Outsized Losses

But by late summer 2007, it was clear that the securities on Merrill's balance sheet contained a lot of subprime mortgage assets on which the firm would have to record large losses as their values plunged. Sure enough, in October 2007, Merrill slashed the value of the CDOs and subprime mortgages still on its books by an astonishing \$8 billion, nearly double the sum estimated only a few weeks earlier. By year-end 2007 it had announced another \$11.5 billion in CDO-related write-downs, leaving Merrill with the largest loss in its ninety-three-year history, and the first it had recorded in nearly two decades. In only months, any gains Kim and his team had made for Merrill over the years they had toiled there while pocketing small fortunes for themselves had evaporated. Ultimately, Merrill's losses would be large enough to swallow eleven years' worth of profits.<sup>5</sup>

Not surprisingly, the outsized paydays reported by Kim as well as Wall Street CEOs such as Merrill Lynch's Stan O'Neal—who walked away with \$160 million or so of deferred compensation, stock options, and other goodies as well as years of lavish pay packages despite presiding over the carnage—touched off outrage and protest that has stretched from the Oval Office right down to the folks in the streets. How could Wall Street folks be paid so well for doing so badly? And what does any banker do in a single year that is worth a \$14.5 million bonus—at least, what that is legal?

But the incomprehension is mutual. In Wall Street's worldview, its inhabitants put in long hours doing increasingly complex jobs that few others have the ability to handle, even if they are willing to tolerate the extraordinary stress and the complete absence of any kind of work-life balance. Naturally, the argument goes, they are well paid for those efforts. Even long after Wall Street's

compensation policies became a hot-button issue, some prominent individuals were still willing to defend them. Thomas Donohue, president and chief executive officer of the U.S. Chamber of Commerce, admitted that the bonus payments made by Goldman Sachs and other firms in 2009 may seem “obscene” to the average person—and perhaps even to himself. But Donohue still believed they were justified, he said in early 2010. After all, those lavish pay packages were awarded to “very unique kinds of people,” he explained to a reporter. “They are like mad scientists. They are all mathematicians and they are very mobile. They can go to private equity and hedge funds.”

One of those financiers, Jake DeSantis, an executive vice president at AIG, spent a year helping to dismantle the company in the wake of its toxic derivatives blowup. When he discovered that Congress, President Barack Obama, and Andrew Cuomo, New York’s attorney general, to name just a few, were determined that he shouldn’t receive the bonus AIG had promised him, DeSantis blew his stack and published his resignation letter in the New York Times. “[We] have been betrayed by A.I.G. and are being unfairly persecuted by elected officials,” he railed.

The response was both immediate and predictable. On the New York Times website, where DeSantis’s letter had been published in its entirety, a steady stream of responses flowed in. Why, wondered a reader named Rob, did DeSantis fail to grasp why his “retention payment” (undisclosed, but potentially around \$750,000) was “so offensive to taxpayers in a country where the median family income is approximately \$48,000 [?] ... Please clean out your desk. Security will take your key and show you to the door.” Another respondent, Tim Burke, pointed out the flaws in DeSantis’s comparison of himself to a plumber who is penalized when an electrician burns down the house that they have both been working on. If both the plumber and electrician were hired by the same contractor and the plumber was present when the electrician “laid a trail of flowing gasoline between all the homes in the neighborhood, then the plumber might reasonably expect his own payment might be at risk.” And someone called only IW took a jab

at the lifestyle of the rich and (in)famous bankers. “Even if this guy was not in the CDS [credit default swaps] business himself, where does he think that the money was coming from to pay for his 10 cars and house in the Hamptons? ... I am sure you can survive on \$80 a bottle champagne rather than the stuff you are used to, Jake.”<sup>6</sup>

DeSantis wasn't alone in triggering public outrage. After bankers lost so many billions of dollars so rapidly, their lavish lifestyles came under harsher scrutiny. In one spectacularly ill-considered move, John Thain, after replacing O'Neal at the helm of Merrill Lynch, cheerfully signed off on a now-infamous \$1.2 million redecoration of the firm's CEO suite of offices; the payments included \$1,400 for a parchment “waste can” and \$13,000 for a chandelier for a private dining room. Then, only weeks before the emergency takeover of Merrill Lynch by Bank of America was completed, Thain rushed through \$4 billion in bonuses to Merrill executives, to prevent them from fleeing to a better-capitalized rival, bolting to a hedge fund, or starting their own boutique.

No one on Wall Street doubted Thain's abilities; after all, he won partnership at Goldman Sachs and reinvented the New York Stock Exchange before snatching a kind of victory from the jaws of defeat for Merrill by negotiating the Bank of America deal. And it's certainly true that many Merrill executives—like those elsewhere on Wall Street—had managed to generate profits for their firms despite the extraordinarily difficult market environment and by Wall Street standards deserved some kind of reward. But jaws dropped when word leaked out that Thain wanted Bank of America to recognize his achievement in pulling off the merger by awarding him a \$10 million bonus. Few of Merrill's massive problems had occurred on his watch, of course, but Thain had earned \$84 million in compensation the previous year; Merrill had even reimbursed him for a bonus that he had forfeited by walking away from his prior job at the New York Stock Exchange to join Merrill. Was Thain oblivious to the degree of public outrage? It certainly seemed so; word leaked out that he had calmly informed Bank of America executives. in connection with the proposed bonus. “I really think



I'm worth that.”<sup>7</sup> (In the end, he didn't get it; belatedly recognizing the degree of public outrage, he waived his bonus for the year.)

Had Wall Street gone insane? Possibly. Certainly the Street's compensation system had gone badly awry, although the problem had less to do with the sheer magnitude of the salary and bonus checks than those on Main Street might have believed. True, those were exorbitant, and some people on Wall Street sheepishly admit they had a tough time explaining their jobs and their compensation to family members even before the subprime debacle—and not just because the world of finance was so complex. The real problem was that as Wall Street investment banks had morphed from closely held partnerships into publicly traded entities, their compensation structures had remained stuck in the past. Paying out 40 percent or more of each year's revenue in salaries and bonuses had been the norm within a partnership, and remained standard within the new publicly traded entities. But that compensation model didn't take into account the changes that had occurred within the financial services industry.

Wall Street had once been a fragmented business, with a large number of firms vying with each other for market share and none of them in a position to shake the system to its foundations on its own. But by the late 1990s, Wall Street had become a business dominated by global behemoths formed through a series of mergers. Even when the businesses themselves remained relatively small, as Bear Stearns and Lehman had done, they became critical to the financial system because the linkages between those firms and the rest of the system grew exponentially. At the time of Lehman's collapse, for instance, the investment bank had more than a million derivatives trades outstanding; at the other end of each was another financial institution of some kind.<sup>8</sup> All but the smallest and most isolated Wall Street firms are now “systemically critical,” as Fed chairman Bernanke has phrased it; each one plays a much greater role in the health of the system than ever before. In other words, Wall Street institutions had become too big to fail, a phrase that is now repeated endlessly by everyone discussing the future of the financial system. In that environment, risk taking wouldn't be

restricted by the usual concerns of collapse—there was no moral hazard. Even firms that publicly proclaimed that they didn't believe a financial institution should be so systemically important were quietly confident that their bank was among that elite group that would receive some kind of assistance from the powers that be should it become necessary.

But while Wall Street had changed, increasing the level of systemic risk, the compensation system was set up in such a way that it encouraged players such as Dow Kim to boost that risk level even further by using leverage or putting a firm's own capital on the line in hopes of generating higher returns for shareholders. "We lost the checks and balances, a system that provided a kind of curb on excessive risk taking, when we moved away from the partnership model," argues John Costas, the former UBS investment banking head. Once, even those who hadn't yet become partners in a firm, the deal makers and traders such as Dow Kim, would have been very conscious of the risks they were running, since it was their own capital—past, present, and future—that was on the line, argue Costas and other Wall Street veterans. In contrast, today's bankers were largely employees, with every incentive to maximize risk taking and few, if any, to curb that risk.

True, many Wall Street employees, from the top all the way down the line, did get a majority of their annual pay in the form of stock, options, or restricted stock, or opted to keep the bulk of their savings in their own firm's stock. At Bear Stearns, for instance, some 30 percent of the company's stock was owned by employees, whether in the form of stock grants made during the annual bonus payment season or direct or indirect investments. Owning stock didn't give bankers any sense of being the company's owners, however. The capital that they were using to place their bets—structuring riskier leveraged loans for private equity clients and riskier CDO structures that would sit on their own balance sheet until they could find a willing buyer—didn't belong to them, they felt. "There was no question that we saw it as other people's money," says one former senior banker.

In fact, employee ownership may have backfired. Just as had

occurred at companies such as Enron and WorldCom in the 1990s, employees were motivated to take on more risk rather than curb their risk appetite as the market environment became more difficult. “We wanted to boost the share price” so that their holdings were worth more, the banker says. “The risk managers were the guys that tried to stop us from doing that.” Aggravating the problem, that banker adds, was the fact that Wall Street firms increasingly began to see themselves as being more accountable to the demands of shareholders than to the needs of clients, at least at the top levels of the company, where policy was made. “Who were our clients? They were ourselves first—because half the revenue goes to us—and then the shareholders.”

### Swinging for the Fences

In a nutshell, Wall Street’s compensation policies rewarded traders, investment bankers, and even CEOs for taking enormous risks in exchange for enormous profits rather than for keeping an eye on whether the risks they were running made sense for either the firm itself or the financial system as a whole. “It’s that asymmetry that’s at the heart of so much that has gone wrong,” says Seth Merrin, cofounder and CEO of Liquidnet, a next-generation trading system. Merrin began working as a trader when he graduated from college with a political science degree and couldn’t even find a job as a waiter. Within a few years, he was running a risk arbitrage desk and pulling down a Wall Street-sized salary, but already he was aware of the gap between the sums he and his colleagues were paid and the value they delivered to customers. “There was such a mystique to Wall Street; everyone saw it as so automated and efficient, as if it were a supermarket,” Merrin observes. “But it wasn’t, because it didn’t have to live on supermarket profit margins. And people on the Street there were paid for generating wider profit margins, not for lowering costs to customers.”

In the late 1980s, Merrin decamped from mainstream Wall Street to launch his first “alternative” trading network, an electronic order

management and routing system. He assumed that as Wall Street firms came under pressure to cut trading costs, that new discipline would spread to other areas of the business, including compensation. Instead, he saw the rate at which bonuses climbed escalate still further and become more out of whack with compensation policies on Main Street. "Everyone is their own profit center within a Wall Street firm and you eat what you kill," he explains.

Compensation has little to do with how well the investment bank's clients fare, much less how the risk taken by the investment banker to earn those hefty profits affects the financial system. Sometimes it doesn't even matter how the investment bank itself performed, as was the case with Merrill Lynch in 2008, when hundreds of employees pocketed million-dollar bonuses in a year in which the company and the financial system nearly collapsed and were saved only by drastic action. A federal judge who later refused to sign off on a deal between the SEC and Bank of America (which acquired Merrill Lynch and whose top brass agreed to the bonuses) regarding these bonuses wondered aloud, incredulously: "Do Wall Street people expect to be paid large bonuses in years when their company lost \$27 billion?" The answer was yes. "There's a big incentive to swing for the fences," says Merrin. "Should they pull it off, they are compensated extraordinarily well." The only people who suffer are those whose direct actions cause the losses. Even then, "if they lose a couple of billion the next year, well, they don't give back what they earned the previous year. All they are is fired and rich."

It's normal in American society for those who are successful to be well paid and for those who become stars in their field to be lavishly rewarded. True, some gripe when a major league baseball team promises a superstar pitcher the equivalent of thousands of dollars for every ball he hurls from the mound during the next three years. But by and large, Americans feel that if someone has performed well, she deserves whatever the going rate is for her services. As long as the pitcher hurls strikes, the grumbling remains muted.

Most of us have few problems when a successful cardiac surgeon makes millions or billionaires such as Bill Gates and Warren Buffett earn a place on the Forbes 400 list of the richest Americans. Perhaps we find that acceptable, or at least tolerable, because it reassures us that if we work hard and succeed, we too will be rewarded with mansions, yachts, art collections, fast cars, and \$6,000 shower curtains or lots of whatever money can buy that we hanker after. But the ultra-wealthy can squander that tolerance: all that is required is for the average American to believe either that the wealthy individual has achieved those riches through some kind of fraud or deception or at the expense of the little guy on Main Street. Just ask a corporate CEO convicted of cooking the books or a star baseball player accused of taking steroids. And Main Street's tolerance for Wall Street's riches has always been a bit more fragile than it is in the case of the entertainment industry, sports, or even the rest of the business world, perhaps because so few people understand why packaging up mortgages and redistributing them is worth so much money. Like him or loathe him, at least we can all gape at Donald Trump's buildings and understand where the money comes from to fuel his flashy lifestyle. When it comes to the bankers who structure—and restructure—Trump's loans, however, the value of their services is harder to grasp for anyone outside Wall Street's magic circle.

But while populist outrage focuses on the dollar amounts involved, it is actually the incentives at the heart of the compensation system that produce lethal results such as the near-total collapse of the financial system in 2008. If our hypothetical exorbitantly paid cardiac surgeon has a 90 percent success rate among his patients, saving lives daily, then most Americans would agree he's entitled to every dollar he earns. But if he charges more than his peers and has a lower survival rate, grumbling and outrage will follow. And if half his patients are dead at the end of a year, odds are he won't even be able to retire to enjoy the income he has earned so far. The families of those patients will sue him, the medical association may yank his license to practice and, depending on the degree to which he was negligent, he could even face

criminal charges. There is, built into the medical system, a series of incentives and disincentives that link hard work, skill, and the results of the surgeon's work to compensation.

Now, let's assume that the compensation policies that prevailed on Wall Street in 2006 were the rule in medicine. That hypothetical surgeon would have been paid more for every operation he performed, regardless of the risk to the patient's life. Indeed, the higher risk the surgery, the greater the fee he could have charged, as long as the patient survived for at least a few months and as long as he could convince more patients to go under the knife. Should half of those patients die the next year, the hospital might fire him, but he'd probably leave with a golden handshake; the odds that he would be sued or face criminal charges would have been minute. In many cases, he could move to another hospital or set up his own medical practice and attract new patients. The problem with Wall Street's asymmetrical compensation is actually worse. A surgeon has to buy malpractice insurance, footing the bill for his own errors and those of his peers; when successful plaintiffs drive him into bankruptcy, they can collect the balance of any sums owing from the insurer. Alas, Wall Street doesn't have to purchase malpractice insurance; there isn't even a sense that there is a duty of care to the "patient"—whether that patient is the client or the financial system. And so, as we have just witnessed, taxpayers end up footing the bill for Wall Street's errors of judgment.

Of course, there was the FDIC, which was responsible for "insuring" banks and thrifts—or at least their depositors—against the collapse of an institution. But that covered depositors' assets only up to a certain sum; it wouldn't affect banking counterparty relationships. And even so, as an irritated Mike Mayo pointed out to the FCIC in early 2010, FDIC members—the banks—hadn't had to pay anything in the way of premiums for the ten years leading up to 2006, since the insurance fund was believed to be robust enough. That, he said, is "analogous to an auto insurance company not charging premiums until somebody had an accident or a life insurance company not charging premiums until somebody dies."

On Wall Street, most bankers and traders begin doing the bonus

math toward the end of the year. But their calculations aren't based on such issues as the strength of their company or their earnings relative to the risks they have taken, much less how well their customers have fared after consuming (purchasing) the products they have created, or their role in maintaining or hurting the financial system as a whole. They are looking at a far simpler equation: how much money did their business division make, and how much of that did they themselves contribute? "If someone generated \$10 million in fees last year and got paid \$800,000, they expect that ratio to stay pretty much the same year over year," explains one former senior banking executive. "If that guy goes to \$20 million the next year, he expects to be paid \$1.6 million at least. And he gets really irritated if his boss tells him he's only going to get \$1.1 million."

That compensation system creates a series of perverse incentives, the executive explains. If it costs that individual \$2 in (company-paid) expenses to make \$1 in revenue, he doesn't care, because he's not being paid to control costs but to generate revenue. "And if someone tells him he can't spend that much, he'll probably fight for the right to run his business division as he sees fit." Similarly, if half of the business he generates is higher risk and lower quality, that also is irrelevant: every dollar of fee income is treated the same for the purposes of computing compensation. "I used to tell everyone I met that whatever they were earning, if they were on Wall Street, they were automatically overpaid," says the executive. Not surprisingly, he says, few of those he worked with agreed with him, his personal assistant (who took home \$100,000 a year plus a bonus) among them.

In that context, it's not shocking that Dow Kim was so well rewarded for boosting Merrill's exposure to CDOs, even as the percentage of those packaged securities containing riskier mortgage loans to subprime borrowers increased every quarter. Joseph Stiglitz, a professor at Columbia University, summed up the conundrum in his testimony to the House Financial Services Committee in October 2008. "The problem with incentive structures is not just the level but also the form," he warned. As

they stand, he pointed out, they are “designed to encourage excessive risk taking and shortsighted behavior.”

## Bonus Junkies

It wasn't always this way. Once upon a time, working on Wall Street was about as lucrative as any other profession that demanded an advanced education and a hefty time commitment from its practitioners, such as the law or medicine. Only a handful of people at the pinnacle—such as J. P. Morgan himself, who as a financial industry tycoon was as much a user of the system as he was a part of it, earning massive profits from restructuring businesses and entire industries—found Wall Street a ticket to great riches. At Morgan Stanley, bonuses rarely added up to more than a month or two's worth of salary for lucky recipients; a fraction of their annual salary.<sup>9</sup> For every J. P. Morgan, there were thousands of bankers toiling on Wall Street in relative obscurity, well paid but not lavishly so. In the words of former Morgan Stanley partner Fred Whittemore, the goal of investment bankers was to become “respectably rich in a respectable way,”<sup>10</sup> a phrase that was in tune with the 1930s pledge by Jack Morgan (J. P. Morgan's son) to Congress that the House of Morgan was committed to doing “first-class business in a first-class way.”

By the 1980s, that approach to compensation seemed to be as much of an anachronism as Morgan Stanley's insistence on being the sole lead underwriter on any deal it did for clients. When Bob Greenhill's merger advisory group began generating hefty profits for the firm, resentment began to build among other partners at what they perceived to be Greenhill's arrogance. “Greenhill should remember that whatever success he has comes from the franchise,” one of the firm's partners griped.<sup>11</sup> Increasingly, however, that wasn't true; a star banker, analyst, or trader could become his or her own franchise, as Greenhill and later figures such as controversial technology banker Frank Quattrone proved, hopping from one firm to another with full confidence that their clients would follow



them.

Loyalty shifted from the firm and the franchise to the department. Ultimately, at many firms the individual banker or trader owed his loyalty to that department only as long as it was profitable to do so. (The exception was at firms that retained a strong culture, such as Goldman and, until recently, the old J. P. Morgan.) As that process continued, Lou Gelman, the former Morgan Stanley banker, reflects wryly, Wall Street became more about doing any class of business for first-class pay, while bonuses had become multiples of annual salaries rather than fractions. “Nobody on Wall Street gets paid for turning down a deal,” he says. “What are you going to say at the end of the year when your buddies ask what your bonus was? No one says, ‘Oh, I turned down these five deals because I didn’t think they were good for our franchise!’ Because what was good for the franchise wasn’t turning deals down, it was making more money.” And that franchise wasn’t always the institution itself, but some subgroup within it, from proprietary trading to telecommunications banking. In years when newly public companies lost money and saw share prices plunge, employees in profitable subgroups still pocketed bonuses. It was the payment of just that kind of bonus in 2008 that sparked such outrage.

And as the 1980s drew to a close, the value of those bonuses began to move into nosebleed territory. In the first stages of the bull market, during the late 1980s, the average Wall Street bonus remained less than the average salary—ranging between \$14,000 and \$15,500 a year. It wasn’t until 1986 that researchers found that the average annual earnings of an investment banker began to exceed those paid to another group of professionals where skill and experience is also prized—engineers.<sup>12</sup> That gap continued to widen. Suddenly, in 1991, the average bonus doubled to \$31,100, and continued to climb before peaking (for now, at least) at \$190,600 in 2006. (In 2010, the average bonus fell back to \$128,530, as Wall Street boosted base salaries in response to new regulations.) Over a seventeen-year span, bonus payouts to Wall Streeters grew at an average annual clip of 11.7 percent; during the same time frame, the rate of growth in the average wage declined

from around 4 percent to as little as 2 percent. Interestingly, the total bonus pool grew more rapidly than the average bonus, signaling that the benefits were going to the higher-compensated employees.<sup>13</sup> The growing Wall Street pay packages both contributed to the soaring cost of living in New York, and then, in a vicious circle, kept increasing to keep pace with that cost of living. By the late 1980s, in Manhattan at least (given sky-high real estate prices and the soaring cost of private school tuition), it was difficult for a senior banker to maintain his or her standard of living on salary alone, especially as it tended to stay relatively flat when compared to bonuses. Back in the 1970s, a Morgan Stanley partner could earn about \$100,000 a year and financier Saul Steinberg bought one of the costliest apartments in Manhattan at the landmark building at 740 Park Avenue (formerly occupied by Mrs. John D. Rockefeller Jr.) for a mere \$250,000. Today, only a Wall Street CEO or a handful of the industry's top producers can expect to earn the inflation-adjusted equivalent of \$100,000 (\$525,000 in 2009 dollars) in salary. At Merrill Lynch, for instance, the salaries of the six top executives in 2006 ranged from a mere \$275,000 to \$700,000 for CEO Stan O'Neal.

The apartment at 740 Park Avenue remained one of the city's most expensive, but someone such as Dow Kim would have had to pay out not two and a half times his annual salary (adjusted for inflation) but closer to a hundred times to purchase such a trophy property. In 2000, when Steinberg sold his apartment, a member of Wall Street's new elite, Blackstone Group's Steve Schwarzman, paid \$37 million for it. (Adjusted for inflation, the 1971 purchase price would have been closer to \$1.1 million in 2000 dollars.) Few on Wall Street were even in a position to fork over two and a half times their bonus payment to acquire the apartment. Years of outsized paydays at investment banks, hedge funds, and private equity funds meant that only a few investment bankers were now wealthy enough to contemplate such a purchase. (One of Schwarzman's newest neighbors is John Thain, who spent \$27.5 million for his own duplex in 2006.)

Why have bonus payments and compensation grown so

exponentially? Ask anyone on Wall Street, and you'll get a list of reasons (today likely to be delivered in a rather defensive manner) that sound a lot like those advanced in Jake DeSantis's resignation letter. Bankers, they say, earn every penny of their money, thanks to their hard work, skill, and expertise. It's certainly true that the professional life of a Wall Street banker, like that of a professional athlete, tends to be a Hobbesian one—nasty, brutish, and short. Walk onto a Wall Street trading floor and you won't see too many gray heads among those bent over computer trading terminals. Trading is a young person's game (and still largely a young man's game); people burn out at a relatively young age. Even in the world of investment banking, if you're still at it in your mid-fifties, it's either because you're a genius and on the fast track to the CEO suite, or because you don't have anything else in your life that you'd rather be doing.

Tony Guernsey of Wilmington Trust points to another reason for the magnitude of the pay packages. "People want the best service, period; it's no different than having the best plastic surgeon or a barracuda lawyer. If you want to sell your company, you want to maximize the price. You don't care what he makes as long as you get more than you thought you would." In the late 1990s, one of Guernsey's wealth management clients approached him for help selling the magazine publishing company he owned. Guernsey and his client picked Steve Rattner, then the acknowledged chief deal maker at Lazard and a star media banker, to handle the sale. Rattner sat down with some twenty potential bidders, including S. I. Newhouse of Condé Nast, to discuss the company and the potential deal.

"The first lot of bids came back at between \$60 million and \$90 million, and Newhouse was the low bidder," recalls Guernsey. Rattner, orchestrating an auction among the five most likely buyers, sent a draft contract back to them with instructions to alter it as they wanted, warning them that any changes they made would represent their final bid. "Four bids came back—and Si [Newhouse] won it with the highest bid of \$175 million!" Guernsey says, grinning at the memory. "And that is why Steve Rattner has always

earned the big bucks—he brings home the premium valuations for his clients.”

Unfortunately for their clients, bankers like that may be harder to find on Wall Street these days. (Rattner himself decamped in 2000 and set up his own private equity firm before becoming President Obama’s “car czar”; since leaving that post, he has paid fines to settle a series of allegations by regulators that he paid kickbacks to win business.) And as Wall Street has increasingly turned away from agency business—doing business as an intermediary for clients like Guernsey’s—in favor of proprietary deal making and trading, it has become more difficult to point to excellent client service as a rationale for such enormous paychecks, especially since many of the bankers who still served clients did so at firms that were ramping up those proprietary activities at a far greater rate.

Tom Casson, the former Bear Stearns banker, still argues that he and his colleagues earned their bonuses by slaving, day in and day out, to deliver excellent results. “I would tell the new guys that anything less than perfection in a spreadsheet or a PowerPoint presentation earned them an F; it’s the same standard of success as surgery,” he recalls. But would Casson and his peers have had the platform on which to build a banking business—much less had the opportunity to be richly rewarded for their undoubted efforts—if it hadn’t been for the fact that Bear itself was, as Casson acknowledges, a giant hedge fund? And even if Casson had recognized the degree of leverage on his parent firm’s balance sheet, would he have questioned either that or his compensation? “Probably not,” he admits. “I would have drawn comfort from the fact that it was the standard across the investment banking industry; everybody was doing it.”

In fact, the real reason for the hefty paydays came to have as much to do with the need to retain their top performers as with client service excellence. (Certainly, the very common comparison to other professions, whether surgery or the law, doesn’t hold water: although the jobs can be just as grueling and all require advanced education, only exceptional lawyers and surgeons will be able to earn seven-figure compensation packages. and then only

after a decade or two of experience.) Increasingly, private equity and hedge funds were cherry-picking the top performers at investment banks and inviting them to move to their corner of Wall Street, where bureaucracy and regulation was less arduous and where, when it came to compensation, the sky was the limit. After all, while Wall Street CEOs were making tens of millions—and suffering lots of headaches—hedge fund managers were raking in billions a year in profits for their firms, and up to hundreds of millions for themselves.

SAC Capital's Steve Cohen, one of the most famous hedge fund investors, lived in a modest home in Greenwich, Connecticut, for several years, even after leaving Gruntal & Co. in 1992 to set up his own hedge fund. (Early visitors to that home recall that Cohen and his first wife would bring plastic patio chairs into the living room to accommodate overflow guests.) But Cohen's lifestyle changed as his earning power increased exponentially; he pocketed first tens of millions, then hundreds of millions of dollars a year in both management fees and as his share of profits earned for investors in his hedge fund empire. (In December 2009, Cohen's first wife, Patricia, filed a lawsuit claiming that he had hidden millions of dollars of those riches from her during their 1990 divorce. A spokesman for Cohen, whose net worth is now estimated to be around \$6 billion, called the allegations "patently false" and the case was dismissed by a federal court judge in March 2011.) That was a lot more than he would ever have been able to make at Gruntal, where he likely would have remained earning single-digit millions. In 1998, Cohen and his second wife, Alexandra, bought a 35,000-square-foot home in Greenwich that gets bigger with every year that passes (the couple requested permission to add an extra 1,100 square feet in late 2008) and offers its inhabitants and guests still more amenities.

Visitors report the Cohen mansion now includes not only an indoor swimming pool and an outdoor ice rink but its own Zamboni machine to keep the ice in pristine shape for impromptu hockey games. Indoors, the plastic chairs have given way to Cohen's art collection, which he has already spent close to \$1 billion

accumulating. Most famously, that includes a fourteen-foot-long tiger shark pickled in formaldehyde, for which Cohen paid artist Damien Hirst some \$8 million; he is said by those who know him to have dismissed the costs associated with renovating and then replacing the molting shark (some \$100,000) as the equivalent (in Cohen terms) of a cup of Starbucks coffee. Just as startling as the flaking shark is a work that Cohen has displayed in a frozen container in his own office: a sculpture of a human head made out of freeze-dried blood by the artist Marc Quinn.<sup>14</sup>

Meanwhile, Cohen's protégé David Ganek had become a second-generation hedge fund wizard. Founding Level Global Investors in 2003, Ganek pocketed more than any Wall Street CEO in 2007 (between \$70 million and \$100 million, according to estimates by *Trader Monthly*) despite the relatively small size of his \$2.5 billion fund. He is one of the new breed of Wall Streeters gravitating to 740 Park Avenue; he paid \$19 million for the duplex that IIT chairman Rand Araskog once called home, making him a neighbor of Schwarzman and Thain. (Ganek closed down his fund in late 2010.) These days, 740 Park was looking more like a building designed for Wall Street; it boasted fewer captains of industry and scions of wealthy families among its residents.

For star traders at Wall Street investment banks, Cohen and Ganek were the guys to emulate. They could make far more money doing their own thing than those working at a Wall Street investment bank could hope to do over the course of their working lives. The investment banks were hardly oblivious to the threat: if they hoped to continue not just serving but competing with the biggest hedge funds and private equity funds, they realized they would have to fight to keep their most skilled traders and deal makers within their own walls. That meant rewarding promising newcomers and boosting salaries for a critical mass of veterans, and making sure they had as much capital as they needed to generate profits from proprietary deals and trades. After Vikram Pandit and two other senior bankers left Morgan Stanley to form the Old Lane hedge fund, and top M&A bankers Joseph Perella and Terry Mequid, among others, set up Perella Weinberg Partners LP, the

firm's new CEO, John Mack, offered an array of incentives to keep other employees from following their example. (Among other perks, Morgan Stanley's employees were now allowed to invest part of their annual bonuses in the firm's own hedge funds and buyout funds.) John Whitehead, at least, would have preferred Goldman Sachs to call the bluff of employees threatening to decamp to greener pastures. "I would take the chance of losing a lot of them and let them see what happens when the hedge fund bubble, as I see it, ends."<sup>15</sup>

Whenever Wall Street's compensation policies have rewarded short-term profit generation at the expense of the longer-term interests of the firm, its clients, or the system, it has led to abuses, risk managers and other analysts argue. Behind any rogue trader, from Nick Leeson (who brought about the collapse of Barings Bank in the 1990s) to Jérôme Kerviel (who cost French bank Société Générale \$7.9 billion in a trading scheme not uncovered until 2007), you'll find a bank employee who had hoped to make a big profit for his bank and a big bonus for himself by taking a big risk, they point out. Instead, the rogue lost control of his trading positions and covered them up, often aided either by colleagues who hoped to protect themselves or by a lack of internal controls at the bank in question.

The controversy surrounding Wall Street investment research is just as dramatic as any rogue trading scheme and shows how compensation policies that offered rich rewards to employees for inappropriate behavior easily became an accepted part of Wall Street. Research analysts working for investment banks knew from the 1980s onward that their output—the analysis of various stocks, bonds, or investment strategies—was valuable to their employers only insofar as their recommendations generated either trading fees or investment banking revenues. A sell rating on a stock could be a career-limiting move for an ambitious analyst if it led to the company's management steering all their business to another firm.

As trading margins shrank, the pressure grew for analysts to help bankers win lucrative underwriting or merger advisory deals. And the analysts seemed eager to play along, realizing that since their

recommendations no longer helped the firm make trading profits, they needed to find an alternative way to demonstrate their value. Richard Braddock, CEO of Priceline.com, publicly declared that his firm picked Morgan Stanley to underwrite its 1999 IPO because of Mary Meeker, the firm's influential Internet and technology analyst. Meeker obligingly slapped a buy rating on Priceline.com and kept it there even as the firm lost 97 percent of its value over the next three years. At Merrill Lynch, Henry Blodget didn't downgrade a stock that he privately acknowledged to be a "piece of junk" until after the company in question had completed an acquisition on which Merrill earned advisory fees. At the end of 2000, Blodget sent an e-mail to his bosses at Merrill trumpeting his role in earning some \$115 million in banking fees that year; he was rewarded with a big boost in his bonus, earning a total of \$5 million.

That e-mail, along with thousands of others, were accumulated and studied by then New York attorney general Eliot Spitzer and his staff during their probe of the investment analysis business in 2001 and 2002, revealing a pattern of questionable judgment on the part of the analysts and their bosses. Perhaps the most dramatic example was the case of Jack Grubman, the star telecommunications analyst at Salomon Smith Barney (a division of what is today known as Citigroup). Grubman earned as much as \$20 million a year in salary and bonus and helped his firm pocket at least \$1 billion in fees arranging mergers or underwriting stock and bond issues for the companies he followed. But a CEO who couldn't generate lucrative deal fees for Salomon Smith Barney found it hard to get Grubman's attention, much less communicate the company's story to potential investors, although that, theoretically, was the heart of Grubman's job. "I tried to go to Jack and say we're the best of our peers and we're solvent, but I couldn't get in his office," Howard Jonas, chairman of IDT Corporation, told a New York Times reporter at the time the research scandal finally surfaced. "If you had big merger-and-acquisition opportunities, then you had a chance."<sup>16</sup>

A host of the companies that Grubman did pay attention to and give buy ratings to—including Global Crossing, McLeod USA, and, famously, WorldCom—ended by filing for bankruptcy protection.



(Until Lehman Brothers filed for bankruptcy six years later, WorldCom would remain the largest U.S. bankruptcy in history, involving \$41 billion in debt and \$107 billion in assets.) Grubman, along with other Salomon Smith Barney bankers, had advised WorldCom CEO Bernie Ebbers—now serving a twenty-five-year prison sentence for fraud and conspiracy—on dozens of deals, reaping fees for the investment bank. He continued to recommend the stock to investors right up until days before the company reported a \$3.8 billion accounting error. Those on Wall Street may have been blasé about Grubman's ongoing bullishness when it came to telecom stocks—they knew that his firm wouldn't have stood a chance of winning the lucrative banking mandates had he cooled off—but even they blinked in astonishment at Spitzer's ultimate disclosure: a series of e-mails demonstrating a link between a sudden about-face on AT&T's stock (just in time for Salomon Smith Barney to win a top spot in the underwriting syndicate for stock in the wireless phone division, about to be spun off as a separate business) and his own personal financial interest. Specifically, Grubman agreed to raise his lukewarm rating on AT&T to a buy in exchange for help getting his toddler twins into the top-tier preschool at the 92nd Street Y—that help, it turned out, involved a \$1 million donation from his firm.

Nearly everyone was happy. The toddlers were admitted to preschool, the Y got its donation, AT&T got its buy recommendation, and Salomon Smith Barney won a place alongside Goldman and Merrill as a lead underwriter for the AT&T wireless transaction, and thus a share of the fees that would help boost its status in the year-end league table rankings of each investment bank's market share.

Grubman and other exorbitantly well-paid Wall Streeters who have run afoul of specific securities laws, such as Mike Milken, will never work on Wall Street again. But they still got to keep the majority of their compensation for the years they spent there, and can, if they choose, parlay their experience into other jobs in the corporate world.

When Dow Kim left Merrill Lynch in early 2007, it was to set up

his own hedge fund. Normally, that would have been simple; even raising \$3.5 billion in assets would have been relatively straightforward had Kim opted to leave midway through 2006 and waived his massive bonus. But his departure came just a few months too late; by the time he began trying to raise money, the problems with the products he had constructed for investors and that now were stuck on Merrill's balance sheet were apparent. Merrill itself, which had promised to back Kim's fund at the time of his departure, quickly reversed that pledge only months later. As of mid-2010, Kim hadn't raised enough from outside investors to formally announce the formation of his fund or begin deploying capital. On the other hand, he hasn't had to sacrifice any of the profits he made by structuring subprime CDOs, except for the value of any stock in Merrill Lynch that he still owned. (Kim was an active seller of Merrill Lynch stock in the year or two before his departure as his compensation levels climbed, according to insider-trading filings with the SEC.)

### Efforts at Reform?

Several Wall Street firms began to tweak their compensation packages in late 2008 in response to the public outrage, introducing the concept of the clawback to investment banking pay packages. The first and most obvious step was for CEOs and other top executives to waive their bonuses for the year, and one by one, the announcements appeared. In some cases, those announcements were accompanied or rapidly followed by new pay policies, such as John Mack's proclamation at Morgan Stanley that in the future compensation would be tied to "multi-year performance and each employee's contribution to the Firm's sustainable profitability."

The ten-page brochure published by Morgan Stanley the following spring spelled out the basic tenets of this new approach to pay, including a commitment that 75 percent of compensation would be in the form of stock and that those stock awards to senior executives would be "at risk" for three years and would depend on

the firm continuing to earn a solid return on equity, generate profits for shareholders, and perform well compared to its peers. Moreover, an employee who “engages in certain conduct detrimental to the Company or one of its businesses—causing, for example, the need for a restatement of results, a significant financial loss or other reputational harm”—up to three years after the compensation is first awarded could have any bonuses clawed back by the firm.

Before 2009 was over, Goldman, embroiled in a public relations nightmare that had a lot to do with plans to pay out what might be record bonuses to its own team, announced something roughly similar. Goldman’s top managers wouldn’t get a penny of cash in their bonus checks, only stock. Moreover, those shares would remain “at risk” for five years, longer than those issued by Morgan Stanley as bonus payments. Other firms devised even more creative new policies. At Credit Suisse, illiquid assets such as leveraged loans and commercial mortgage-backed securities were placed into a \$5 billion fund, shares of which were then awarded to executives as part of their bonus. The fund, set up in January, had already gained 17 percent by August 2009, Credit Suisse told its banking team. (The bank’s stock, however, had soared 86 percent on the Swiss stock market in the same period.)

To a large degree, these initiatives recognize and respond to the degree of public outrage at Wall Street’s lavish paydays of the kind displayed during congressional hearings when Representative Henry Waxman displayed a chart showing the growth in the pay packages awarded to Lehman Brothers CEO Dick Fuld. Fuld, sitting at the witness table, quibbled with Waxman’s calculation that he had earned \$484 million between 2000 and the firm’s collapse in 2008, arguing that it was closer to \$250 million, mostly in Lehman stock. “Is that fair?” Waxman demanded (largely rhetorically) of Fuld. While getting rich, Fuld and his colleagues “were steering Lehman Brothers and our economy towards a precipice.” Overblown and hyperbolic statements on the part of other representatives and senators—many of whom had been quite happy to accept donations from Wall Street during its glory days—followed thick and fast.

Proposals for salary caps at firms that had accepted bailout money that they hadn't been able to repay were adopted; regulators and legislators were kept abreast of all bonus payments.

To some on Wall Street, the actions and rhetoric emanating from Washington were entirely logical. "I say this as a citizen: I think that what is going on is fair," argued Leon Cooperman, the hedge fund executive and former Goldman Sachs partner in the spring of 2009. "If business looks to government to moderate and control the downside risk, then the government has the right to control and moderate the reward. So we now need to get used to living in a world where that kind of stuff will happen and where government is going to be more interventionist." To others, it was an overreaction. "I grew up without much money, and my goal in being on Wall Street was to make \$15 million or so over a number of years and then leave," says Casson frankly. "If anyone had tried to put a lid on how much I could earn in exchange for all my work, I would have looked for somewhere where my earnings weren't limited."

Most of the compensation reform schemes that were proposed or announced overlook the fact that past efforts to rein in greed have had all kinds of unintended consequences. After a Chinese wall was created between investment banking and research, as part of the reforms that followed Spitzer's investigation and the Grubman scandal, bankers no longer had a voice in which companies analysts covered or even which analysts were hired. Not surprisingly they balked at subsidizing the research division. Analysts' compensation was cut in half; many fled to hedge funds.<sup>17</sup> Those reforms, while theoretically creating less-biased research, didn't result in the creation of better quality research, at least not in a way that was easily accessible to the general public. "Come on, Mr. Obama, how are you going to attract anyone of the right caliber who wants the headache of running these firms, if you put these salary curbs in place?" wonders Guernsey, a private banker who has worked with many of Wall Street's top deal makers. "I have never overpaid for someone who is a top performer. Pay is how those top performers are recognized, traditionally."

## Address the Cause, Not the Symptoms

The biggest problem with the various compensation reform initiatives is that they tackle the surface issues, not the root causes of the problem. Salary caps, for instance, are likely to be effective only in driving the most skilled Wall Street veterans out of those parts of the financial markets that are now being most rigorously monitored by lawmakers and regulators and into overseas institutions or other segments of Wall Street over which the government has little control. Those hedge funds that have ridden out the storm so far, for instance, continue to reward their employees as lavishly as ever. In the spring of 2008, Fortress Investment Group gave thirty-eight-year-old Adam Levinson \$300 million in stock in the publicly traded hedge fund to persuade the star trader to stick around, despite the fact that the massive stock grant diluted the value of the holdings of other, public investors.<sup>18</sup>

True, in some cases investors have succeeded in pushing back management fees from 2 percent of assets to a more modest 1 percent and “persuading” managers to accept a smaller chunk of profits than the traditional 20 percent or 30 percent. In London, the three top executives at GLG Partners voluntarily cut their own salaries to \$1 each, although they remain investors in their own funds and will continue to collect a share of any profits. One of the top hedge fund groups, Renaissance Technologies, is waiving its 1 percent fee on a newer fund that has performed poorly, people familiar with the industry say. Another large hedge fund group plans to collect its “incentive” fee at the end of three years on the net result of that three-year performance, rather than at the end of each year on what the fund had earned that year, says Patrick Adelsbach, a principal at the hedge fund research and advisory firm Aksia LLC. That is a big departure from the classic hedge fund compensation model that rewarded its managers at the end of each year for what had happened in the previous twelve months, which saw managers transform paper profits into cash fees thanks to the

wonders of mark-to-market accounting. "Marking," or putting a market value on a hedge fund portfolio on December 31 of each year, gives hedge fund investors an idea of how their managers are performing. But the manager collects 20 percent or more of any gains in the value of that portfolio as a performance reward, regardless of whether or not that increase in value proves lasting.

Even when a risky transaction in that hedge fund portfolio later went sour, there was no way to claw back what had already been paid out in fees. All that investors could do was limit future manager paydays until the fund had recouped those losses. "A lot of managers found a way around that, too," says a grim-faced Cooperman. "A lot of them, rather than working to make that money back, just say, 'I quit,' and hand the capital back to investors. If you tell me as an investor that you're going to work for nothing and then when you do have losses just quit on me, that's just not right." Cooperman takes an even dimmer view of the increasingly popular strategy of shutting down one money-losing hedge fund partnership, only for its manager to reopen for business under a new name in less than a year.

If salary caps succeed only in driving the most talented bankers to parts of the market that government edicts don't reach, they won't get to the heart of the problem. Nor will policies that end up discouraging bankers and traders from taking any kind of risk whatsoever by making it too risky from a career and compensation standpoint. And while clawbacks are at least a step in the right direction, it's a retroactive approach to solving the compensation conundrum. Of course it would be wonderful to be able to recoup past bonuses paid to people whose poor decisions and lack of attention to the risk associated with what they were doing end up bringing the financial system to its knees. (After all, murderers can't collect life insurance premiums or otherwise inherit anything from their victims.) But it would be better still if the bright minds on Wall Street and in Washington could devise a compensation system that rewarded the denizens of Wall Street for avoiding such catastrophes in the first place.

Part of doing so boils down to defining more clearly who their

clients are. Ever since investment banks began going public, they have emphasized the degree to which their interests are aligned with those of their investors by pointing out the large stock holdings of their senior executives and the degree to which bonuses are paid out in stock. Having at least some “skin in the game” is seen as the goal, as Peter Blanton, a veteran banker, recalls from his days at Credit Suisse. “When the merchant banking team put together a deal, the folks that blessed it had to put some of their own personal capital into it as well as putting their names on the due diligence. It was a policy. There was a sense that without having skin in the game, we were just agents, without a long-term stake in the outcome.” That attitude wasn’t confined to the deals the bank did, but applied to their governance policies more generally. Gary Cohn, president of Goldman Sachs, told the Wall Street Journal in a 2009 interview that in his opinion, paying employees in Goldman Sachs stock is the “ultimate clawback.” “When I got paid three years ago in \$240 stock and it was trading [at] \$54 or \$53 ... it certainly felt like a clawback to me,” Cohn insisted. “We have always had ... the ability to withhold stock or take it away for anything ... done illegally [or] immorally.”<sup>19</sup>

But if a heavy reliance on stock ownership was the foundation of a healthy compensation policy, then why did Bear Stearns and Lehman Brothers collapse? In both firms, from the CEO’s suite down to the most junior bankers, ownership of the company’s stock was encouraged and viewed by all as the best way to build wealth. And yet at both firms, groups of traders and investors were taking the same kind of outsized and risky bets as Dow Kim, who also collected more than half of his salary in the form of stock in Merrill Lynch.

By the time that bankers across Wall Street received their record pay packages at the end of 2006, interest rates had been climbing for nearly two years and the rate of economic growth had begun to slow amidst concerns about sky-high energy prices. The subprime lending cloud had begun to take shape overhead. And yet Wall Street, in the early months of 2007, was cranking out more mortgage-backed securities in the form of highly structured CDOs.

not fewer. And those CDOs were packed full of securities that carried more risk, not less. “To all intents and purposes, whether you got paid in cash or stock, the principle remained the same,” says one former senior banker. “You were earning bonuses for maximizing fees, and the higher the fee income, the higher revenues and profits rose, and the better the ROE looked compared to your rivals, and the better the stock price did. It’s all the same thing: pay was tied to profits.” And at the end of 2007, the compensation on Wall Street hadn’t fallen nearly as fast as some of the investment banks’ stock prices. It’s a cliché on Wall Street to say that financial markets are all about greed and fear; compensation, however, had become a matter of fearless greed in the mental calculus of at least a significant minority of traders and bankers eager for another record bonus day.

As long as compensation remains tied to competitive metrics—how much Bank A’s return on equity exceeded Bank B’s, or whether Bank B’s share price grew more rapidly than that of Bank C—it won’t matter whether an employee’s bonus is 50 percent or 75 percent in stock. “One of the problems is that people lost sight of who their customers are, because there were so many of them, and instead focused only on delivering what their shareholders demanded of them,” says a former senior banker who has now left the industry. “But do shareholders always know best? Is a rising stock price always the answer to every question?”

An asymmetrical compensation scheme that lavishly rewards excessive risk taking but fails to effectively punish failure is toxic in any environment, but when it isn’t balanced by some broader consideration—the risks to the company, to investors, and to the financial system’s health—then it becomes even more lethal. What happens, for instance, when a banker or trader is rewarded for his or her success in passing on a risky investment to a customer? Unless the problem is systemic—spread across Wall Street as a whole—the odds of such a problem wreaking long-term havoc on an investment bank’s stock price are low. And if that banker or trader is otherwise a star, generating lots of fees from risky products of which only a few blow up (even though many others fare far less



well than the banker or salesman had promised), the odds of that individual facing a clawback—especially in a more normal Wall Street environment—are slim. After all, only a minority of mergers and acquisitions end up being successful, generating long-term value for shareholders of the companies doing the deals, and yet the bankers who propose, structure, and help to execute these transactions are rarely held up to scorn or asked to return their fees.

One of the most novel proposals for revising Wall Street compensation revolves around an attempt to bring back the spirit, if not the reality, of the era of partnerships when, as Lehman alumnus Peter Solomon recalled, the partners of a big investment bank sat around in one large room, literally or figuratively peering over each other's shoulders to ensure that their peers weren't taking too many risks. It may not be possible or even desirable to transform today's publicly traded financial institutions back into private partnerships.

But there may be creative alternatives. In a paper written for a conference held at the University of Seattle Law School, two law professors from the University of Minnesota put forth the proposal that any banker earning more than \$3 million a year should be required to sign a joint venture agreement with their employer. "That would make them personally liable for some of the bank's debts," Claire Hill and Richard Painter conclude in the paper—and hopefully instill in them a greater awareness of the consequences of their risk taking. The duo point out that reckless risk taking is a Wall Street tradition. "Michael Lewis's description in his 1989 book of the term used for a star trader—a 'Big Swinging Dick'—reflected ... an ethos in which investment bankers engaged in risky conduct and were no longer personally responsible for their actions."<sup>20</sup> Sure enough, a rogue trading scandal followed shortly after Lewis's book was published. Despite a boost from Warren Buffett, Salomon Brothers' brand name was damaged.

The two law professors point out that most of the existing proposals already out there—whether the prospect of vanishing bonuses or tying pay to the performance of not just the banks but also the debt securities that it sells to its clients—don't go far

enough. By and large these still involve “no risk of loss for bankers—only forgone gains.” What is needed, they argue, is a proposal that is based on a different perception of banking as a “type of socially useful yet potentially ‘ultrahazardous’ activity that should involve ... some measure of strict personal liability.”<sup>21</sup> The limited partnership proposal is just part of their suggested reforms, which also include the proposal that bankers can shield only \$1 million of their annual compensation from creditors in the event of their firm going bankrupt—the rest would be “assessable.” That means that if a banker gets a \$3 million stock bonus and his firm later goes bankrupt, \$2 million of that stock—valued at the time it was granted—would be assessable, meaning the banker would have to pay its full market value at the time of issuance, or \$2 million, to the firm’s creditors.

Another proposed solution involves an approach that the Credit Suisse initiative hints at—putting Wall Street firms on the same side of the table with all their clients, not simply their shareholders or those that pay them fees. “If you’re going to make a loan, or package some mortgage-backed securities and sell them, shouldn’t your rewards be tied to the long-term success of the securities that you put your company’s name on and sell to clients?” suggests private equity manager Tom McNamara. “You get paid when the things you sell pay off for the people that buy them, not when you sell them.”

Paying out employee bonuses on the basis of deals that have only just been completed—long before it is possible to determine whether or not they were as rewarding for investors and other clients as they were lucrative for the institution selling or structuring them—is at the heart of the problem, in the eyes of many Wall Street veterans. Investment bankers shouldn’t be richly rewarded unless their clients also make money, and certainly shouldn’t be compensated when deals prove disastrous, whether for a client, the investment bank, or particularly for the financial system as a whole. One lawyer points to a structured product created within one part of an investment bank: the desk that created it earned a fee, but then another group of traders created a derivative structure atop the

original product that blew up, generating a big loss for another part of the same firm: “No one was tracking what happened across the various desks, so this product generated fees for people, even though it was utterly dysfunctional,” the lawyer says.

McNamara, like many of the investors who have been consumers of the products that Wall Street generates, argues that investment banks should find some way to tie the success of the banker or trader not just to fee generation or corporate profits but to the success of their clients and the system’s well-being. It’s a view that is shared by Columbia University’s Joseph Stiglitz. “Those who originate mortgages or other financial products should bear some of the consequences for failed products,” he argued in his congressional testimony. Specifically, he recommended that the institutions originating mortgages be required to hang on to 20 percent of what they structure and sell. Stiglitz and others suggest that if that philosophy was extended to all of the transactions across Wall Street, with investment firms being required to retain a stake in every leveraged loan, junk bond transaction, or structured product that they sell, Wall Street would have a greater interest in maximizing not only the dollar value of the deals it does but also the quality of those transactions. In 2008, many of the products that caused meltdowns within Wall Street’s investment banks were those that they had hoped to sell on to other investors but which ended up stuck on their balance sheets with no buyers in sight. “Isn’t it ironic?” muses BlackRock’s Rob Kapito. “These were the same securities that they wanted to sell to us, the buy-side institutions. If they’d succeeded, everyone would be talking about how well they’d done and how successful they had been.” And the buy-side institutions and their own investors—401(k) plan participants, pension funds, individuals—would have faced even larger losses.

## Questions of Value

Wall Street’s core function may be that of a utility, but it is an unusual sort of utility. Rather than transmitting clean water or

reliable electricity supplies, it redistributes money throughout the financial system—and money is a far more exciting commodity than water or electricity. If you're running a power-generating station, it's easy to accept that what has value is the company you work for, rather than the commodity you are transferring from point A to point B. Certainly, if your bosses offered to pay you in kilowatt-hours, odds are that you would decline politely. But Wall Street transmits money, and a bit of every dollar that flows through the financial grid sticks to different players—the investment banks, trading firms, brokers, money managers, et cetera—in the shape of fees. Given that money is the one commodity that can be readily exchanged for any other tangible good someone might want, from food and shelter to a pickled shark by Damien Hirst or a trophy apartment on Park Avenue, it's hardly surprising that for those who live on Wall Street, life revolves around not just transferring money but finding ways to scoop up a bit more of the stuff for themselves.

Greed is an emotion as old as time, and it's asking too much of human beings to expect that those on Wall Street should take as detached a view of the commodity that they see pass through their hands as the manager of a power-generating station takes of kilowatt-hours. The Archbishop of Canterbury, the spiritual leader of millions of members of the Anglican Communion, suggested that investment banking bonuses should be capped, and called on their recipients to repent, arguing that “people are somehow getting away with a culture in which the connection between the worth of what you do and the reward you get [is] obscure.”<sup>22</sup> But turning bankers into individuals who look down on money may be not only impossible but undesirable—after all, the money grid's job revolves around how to make the flow of capital more efficient and profitable for all concerned. The key word is all—while the bankers can't corner those profits, they also shouldn't be totally disinterested. Perhaps the appropriate strategy is to bring financial professionals to think of their jobs in the same way that lawyers view the law, or doctors the profession of medicine. Those groups certainly hope to earn large sums as a reward for years of education and training. but they recognize and acknowledge that their self-

interest goes hand in hand with a higher public and social interest, one that is explicitly acknowledged in medicine's Hippocratic oath and its cornerstone, the pledge to "do no harm." Placing one's own financial interests ahead of the interests of a patient or client can get a lawyer disbarred or force a doctor to relinquish her medical license.

The solution isn't to take a hammer to the current model, as defective as it may be, by imposing salary caps or punitive tax regimes. Rather, if Wall Street is to reach a point where its practitioners abide by their own version of a Hippocratic oath, what's needed is a longer-term strategy to tie compensation more closely not only to returns—whether short-term or long-term—but also to success in generating risk-adjusted returns and success in bolstering the health of the financial system as a whole. A first step in that direction is to be sure that even if Wall Street's firms pay out record sums in bonuses in the future (bonuses amounted to \$20.3 billion of the financial industry's estimated 2009 profits of \$55 billion, the New York State Comptroller's office announced), Wall Street compensation committees are taking risk as well as return into the equation when designing policies and fixing annual bonus levels. Of course, that assumes that those boards—and Wall Street—have a firm handle on what risk really is and how best to measure and control it.

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### The Most Terrifying Four-Letter Word Imaginable

There are known unknowns. That is to say, there are things that we know we don't know. But there are also unknown unknowns. There are things we do not know we don't know."

When then Defense Secretary Donald Rumsfeld delivered that cryptic pronouncement at a February 2002 press briefing, he was commenting on the instability in Afghanistan, not Wall Street. And yet within a few years, the phrase "unknown unknowns" had become one of the most popular ways to summarize all that had gone wrong in the investment banking world. Somehow it was all the fault of the "unknown unknowns": Wall Street CEOs, individually and collectively, had misperceived, misunderstood, and mismanaged the risks associated with their business and the financial markets because of factors that no one could have anticipated, much less avoided. Yes, these apologists agreed, Wall Street had failed the ultimate risk management test, but that was due not to greed or arrogance but just to the extreme nature of the risks themselves. No one on Wall Street, surely, could have imagined and planned for the sequence of events that followed the endless and constantly escalating quest for fees, they argue. Certainly, that's how Lloyd Blankfein characterized events, in a verbal sparring match with FCIC chair Phil Angelides. But when he defined them as being akin to a hurricane in their ability to be predicted and controlled, an exasperated Angelides (himself the former head of a large California pension plan) shot back, pointing out that while hurricanes were defined as "acts of God," the financial crisis was the result of actions and inaction by human beings. That's convincing, but it raises one more question. Is Wall

Street's conviction that they couldn't have prevented what happened to be blamed on self-deception, wishful thinking, or blindness?

In Chuck Bralver's eyes, it comes closest to being the latter. The very idea of flawless risk management makes him laugh out loud—in his opinion, this would require an infallible crystal ball. Still, he remarks, Wall Street appears to be oblivious to the ways that the changing nature of its business created new kinds of risk. Bralver, a former senior banker with Oliver, Wyman & Co., now oversees the Center for Emerging Market Enterprises at the Fletcher School, Tufts University's graduate school of international affairs. In both of those roles he has spent a lot of time thinking about the nature of risk and the discipline of managing risk. "True, each separate event that led to the crisis, or that happened as a result of it, had an extremely low probability of ever occurring at all," Bralver says. "Then they all happened—and they all happened simultaneously."

But that doesn't give Wall Street a get-out-of-jail-free card. Even if bankers can't be blamed for their failure to predict this perfect storm, they still could have developed robust risk management policies to protect their institutions and the financial system from the "unknown unknowns," Bralver argues. One of the justifications for the increasingly lavish pay packages awarded to Wall Street executives was the increased complexity and scale of the businesses they were running. "It's not an accident that this happened after the changes that had transformed Wall Street [into a place] dominated by very, very large institutions that were no longer owned exclusively by the same people making the decisions about what risks to take," Bralver says. "It's possible that some of these organizations had become too large and complex for the kinds of risks they were taking, or that the risk management processes hadn't kept pace with the risk."

But why not? Describing the market cataclysm as a "perfect storm" is a great sound bite and helps the folks on Wall Street convey both the nature and the magnitude of events for critics on Capitol Hill and Main Street alike. But surely the same giant leaps forward in computing power and financial wizardry that made



possible the creation of instruments such as a synthetic CDO-cubed structure or a credit default swap also made it feasible to ensure that those products were doing what they were supposed to and distributing risk more broadly throughout the financial system. At the very least, shouldn't it have been possible to gauge when these new products were being used in ways that increased the risk Wall Street was taking to dangerous levels? Or if the markets had become too fragmented, too complex, and too fast-moving to make that possible, then shouldn't someone somewhere have been prepared to step in and say, "Wait a minute—we can't accurately gauge the risks associated with what we're doing"? And then to ask the next logical question: If we can't grasp the nature of those risks, should we be courting them in the hope of earning returns?

## LTCM and Systemic Risk

The events surrounding the collapse of Long-Term Capital Management (LTCM) in 1998 gave Wall Street an early warning of the perils associated with "unknown unknowns." No one at the beginning of 1998 had expected a series of unexpected and nearly simultaneous events culminating in the Russian government defaulting on its bond obligations; because no one considered such a string of events to be probable, no one seriously pondered what might happen to LTCM as a result of the bets it was making and the degree of leverage it was using if those events occurred. As it turned out, LTCM's losses were so gargantuan that they threatened not only the firm (that would have been only normal) but all of its counterparties—which included nearly every major investment bank in the United States—and the financial system itself. Many of those firms didn't realize the magnitude of the risks they had been running until it was far too late.

In the wake of the LTCM crisis, which should have delivered a salutary lesson about the dangers posed by excessive leverage and "contagion," Wall Street didn't take a step back from the daily hubbub to do a forensic audit of the risks to the financial system

that the hedge fund's problems had exposed. The immediate danger over, Wall Street returned to maximizing its fee revenue, profits, and bonuses and too often shrugged off the concerns of those who, like Lehman's Mike Gelband or New York University professor Nouriel Roubini (who began warning of the real estate bubble as early as 2004), saw a new "perfect storm" taking shape on the horizon. When it came to managing risk, it was the risk of losing fees or market share rather than the risk of a blowup that weighed on the minds of most bankers and traders. Worrying about risks that seemed remote was in no one's interest.

In early 2008, UBS produced a report chronicling a series of errors of omission and commission to explain to its shareholders how it managed to lose a record \$18.7 billion in its subprime structured product businesses in the previous year. UBS management set the stage for the debacle by deciding to act on the advice provided by external consultants; the best way to catch up to and overtake its largest competitors in key business areas—notably Goldman Sachs—was by expanding its activities structuring and trading products based on subprime and adjustable-rate mortgages. What neither the consultants nor UBS management took into consideration were the extra risks associated with following those recommendations and how the bank might manage those risks.<sup>1</sup>

The report lays out in chilling detail the myriad opportunities UBS bankers at all levels had to gain insight into the looming credit crisis, all of which were overlooked or ignored. In one case, UBS created the position of senior risk manager in the bank's fixed-income division in 2006. Would that individual have been able to perceive the risks that were looming? Could he have convinced superiors to rein in their risk taking? Would the bank have acted quickly enough to avoid large losses? The questions are academic: as of the summer of 2007, the position remained vacant and the bank's managers behaved as if the risk management function didn't matter.

In a mid-2009 survey, Capital Market Risk Advisors, a New York risk management consultancy, found that only 70 percent of the investment banks, commercial banks, investment management

firms, and hedge funds polled had a chief risk officer. Of those chief risk officers, only 25 percent had a say on issues such as how much capital a group can risk, or other such specific rules and policies, but did not create firm-wide policy. More worrying still, the vast majority of those chief risk officers reported not to the company's board but to senior management, who have a vested interest in maximizing profits at all costs. The board, which should have access to as much crucial information as possible about risk taking and risk management, may be in a poor position to rein in excessive risk taking, since a third of survey respondents only allowed their top risk management officials to attend executive board meetings once a year, if at all.

### No Adult Supervision

Even when risk management procedures are in place, Wall Street is littered with examples of bankers running roughshod over them. At UBS, for instance, bankers were supposed to seek approval for new CDO products up front. In practice they delayed doing so until their division had already purchased and warehoused many of the asset-backed securities that would be included in the new CDO. Saying no to a deal at that point was possible only in theory; the costs of unwinding those holdings made it unfeasible in practice.

Often UBS bankers didn't even know what assets lay beneath the subprime loans that they were eagerly repackaging into CDOs. Were they first or second mortgages? What was each borrower's credit score? That kind of due diligence was being conducted by some investors, such as BlackRock's Scott Amero, but not by the product vendors. Instead, UBS and others on Wall Street placed blind confidence in the ratings; after all, they reasoned, credit analysts at Moody's and Standard & Poor's wouldn't give a coveted triple-A rating to anything that didn't deserve it.

Crucially, nowhere within UBS did anyone try to understand the importance to the market of liquidity and what might happen to the bank if something caused that liquidity to evaporate. (They

didn't have to predict what might cause such an event; all they needed to do was simply consider the fact that it could happen.) Similarly, until UBS began writing down the value of the subprime securities on its books in the spring of 2007, senior managers simply relied on the assurances of the people running the business divisions that everything was hunky-dory.

Those rank-and-file bankers had their own incentives to downplay the risks associated with subprime asset-backed securitization and the booming CDO market, even as it became a bigger part of UBS's business. Basic risk management principles suggest that any booming business should automatically be given more scrutiny, especially as its revenues and profits become vital to the firm's financial health and even its solvency. But Wall Street's mix of incentives didn't reward that behavior; rather, bankers were rewarded for downplaying any risks, for being courageous and aggressive. That, CEOs such as Stan O'Neal and Richard Fuld were sure, was the only way they could ever succeed in catching up with Goldman Sachs and matching the latter's enviable return on equity.

On Wall Street, "success" was defined in terms of the rapidity and magnitude of the growth of the business for which an individual was responsible, rather than prudence. Indeed, as the UBS report makes clear, at some institutions there was an incentive to deliberately take on more risk and not to look too closely at the potential fallout; the riskier the mortgage loan they agreed to underwrite and repackage, the bigger the fees. The UBS team responsible for structuring CDOs could earn fees of perhaps 0.5 percent, or 50 cents for every \$100 of value in the CDO, by buying only high-grade CDOs containing top-quality securities. Or they could earn at least double and perhaps triple that in exchange for structuring a mezzanine CDO containing higher-risk securities. It was a no-brainer: they pursued the riskier option, which offered the best short-term rewards for both themselves and their division.

Since UBS's compensation policy rewarded bankers and traders based on how much profit they generated, there was no incentive to look too closely at the source of that profit. Was employee A really smarter than employee B because he generated more profit? Was

he making more money because he was better at capturing alpha, returns that had nothing to do with what was going on in the broad markets? Were his returns due solely to the ultralow cost of capital? Was he jeopardizing the bank's health in order to enrich himself, taking risks that might pay off for him in the short term in the shape of a gargantuan bonus but that would hurt the institution over the long haul?

No one at UBS could begin to understand which employees were generating the best returns on a risk-adjusted basis. The data weren't there because all that mattered to those who had designed the reporting and compensation system was the bottom line. Thus UBS, like its peers on Wall Street, paid out hefty bonuses on the basis of earnings gains that proved ephemeral. The bank itself was oblivious to "the quality or sustainability of those earnings" until it was too late.<sup>2</sup>

At best, bankers and traders assumed that someone else higher up in the food chain was doing the worrying for them; that someone would come and tell them if they were taking unacceptable risks. On Wall Street, however, there was no "risk police" to rein them in. As in most of the business world, every business division tends to operate with a large degree of autonomy. Why would the head of mortgage origination check in with the head of fixed-income trading? Their overall objectives may be the same—to maximize revenue for their institution—but they go about it in different ways and they compete with each other for access to the firm's capital to accomplish that. Wall Streeters reason that this would be about as logical as the product manager for Colgate toothpaste making sure that someone selling Hill's Science Diet pet food or Ajax cleanser isn't creating problems for the company that employs them all, Colgate-Palmolive. "Look, we were all just doing our jobs, in our little silos," says buyout manager Jake Martin\*. "It's hard to blame people for doing their job, or to suggest that they should have been doing more than their job—or even more so, doing someone else's job."

Unfortunately, the comparison between Wall Street and a consumer products company (or other nonfinancial business) isn't

that clear-cut. They weren't selling toothpaste or even breakfast cereal. At the end of the day, all the myriad parts of Wall Street still were engaged in operating the money grid and making sure that capital moved smoothly from point A to point B. That function may have accounted for a smaller part of the industry's revenues and profits with every year that passed, but Wall Street, however ruthlessly it might seek out profits for itself and however dispassionate its users could be in allocating capital only to those who would use it efficiently and provide a solid return on their investment, ultimately operated in the public interest.

Were the interests of clients and of the public as a whole best served by organizing a Wall Street firm by product line? Several veterans argue against that approach. "The various products are really just tools that somebody can deliver to their client," argues one former senior Wall Street executive. He believes that had Wall Street firms focused on the client and the client's needs as a way to maximize fees, instead of setting up a structure within which each product group battles to maximize its own revenues, the result would have been a healthier financial system. "A derivatives desk sells products that are great; they are tools, really powerful hammers," the executive explains. "But when a derivatives salesman or manager talks to a client, the solution they propose always involves the hammer that they happen to have available and want to sell. Let's use this hammer to pound in the nail, to pound on this screw, to pound on your computer when it's not working. As long as they can make a case that the hammer might be a solution and can keep selling hammers, they are rewarded." An investment bank that divided its business by type of client—hedge fund, private equity fund, pension fund, endowment, mutual fund manager—rather than by product wouldn't have ended up in the same pickle, he suggests.

Others on Wall Street—a majority—reject such revolutionary ideas. Instead, they take an odd sort of comfort in Wall Street's long history of booms and busts. That was Jamie Dimon's worldview, even after the hurricane had blown through Wall Street. In testifying to the FCIC, he sought to explain his view of what had happened

by relating a story involving his daughter, who had called him from school to ask him what a financial crisis was. When Dimon told her that it was a market event that occurred every few years, she then asked why everyone was making such a big deal about it. (This anecdote was one of the rare occasions when Dimon—who has emerged from the crisis with a reputation that has been burnished rather than stained—appeared to be afflicted with the same kind of tone deafness and foot-in-mouth disease that afflicts some of his peers.)

In every market cycle, traditionalists point out, investment banks take big risks and many end up making bad deals. Wall Street is a Darwinian place: only the very fittest individuals or firms survive. So no one is surprised when every so often one of those investment banks takes a step too far and goes belly-up. Even Drexel Burnham went from being the most profitable firm on Wall Street in 1986 to filing for bankruptcy in 1990. Sure, it's sad for the guys who work there, but the good ones, Wall Streeters reassure themselves, will find another job eventually. (Indeed, a number of Wall Street firms today still are full of Drexel veterans.)

So even as subprime-related losses mounted and investment banks scrambled to find emergency cash infusions from overseas to help fill the holes in their balance sheets that had suddenly appeared, Wall Street prepared for little more than another Drexel-like event, something that would be painful while it lasted but that could be contained without posing a systemic risk. When the Federal Reserve forced Bear Stearns into a shotgun wedding with JPMorgan Chase in March 2008, there were some thinly veiled sighs of relief in a few corners of Wall Street. This was the moment of capitulation, they reasoned; Bear Stearns would be the subprime meltdown's Drexel, the sacrificial victim of the latest round of Wall Street excess. The real estate market would bottom out; there might even be a recession. But, they reasoned, the rescue of Bear showed that the risks could be contained.

But the closer bankers were to having an overview of the system, the more anxious they became. It was increasingly clear that to the extent they had pondered the issue of risk at all, they had been

addressing the wrong set of risks. They hadn't factored into their sometimes perfunctory deliberations the degree to which the financial institutions had become intertwined, so that the collapse of one automatically became a problem for others who had agreed to be counterparties in myriad financial transactions with the now-defunct firm. As the long, hot summer of 2008 unfolded, it also became clear that they had underestimated liquidity risk. Investors were becoming cautious, fearful, and unwilling to buy; they saw values as too uncertain. When buyers weren't willing to buy, how could the owners of securities understand what they were really worth?

Within weeks, liquidity—the lifeblood of financial markets—had begun to drain away, a process that would culminate in the massive credit crunch that fall, after the collapse of Lehman and the \$85 billion AIG bailout signaled just how great the market catastrophe was. It was a chain reaction, and one that revolved around the level of confidence Wall Street institutions had in each other. The first to suffer were the investment banks, which relied on short-term financing to keep afloat. First Bear Stearns and then Lehman Brothers discovered that their usual financiers in the commercial paper and the overnight repo financing market had begun to perceive that the quality of the assets put up in order to obtain that funding had declined.

Liquidity risk was one of the most contagious of all forms of risk, as soon became clear. When Lehman Brothers collapsed, the plunge in value of the company's commercial paper led to an old-fashioned run on one of the oldest money market funds in the United States. The Primary Fund, managed by the Reserve Management Co., had about 1.2 percent of its \$63 billion in assets invested in Lehman's securities, or \$796 million. Investors panicked about even that tiny level of exposure, and demanded that the fund return \$20 billion of their capital. That was more than managers could provide quickly however rapidly they sold other, creditworthy securities to meet those redemption demands. The chaos spread: other money market funds boycotted the commercial paper market. unable to value securities in the midst of a liquidity



crunch. The money grid stopped working—in part because of Wall Street's failure to understand the nature of the risks it was running, and liquidity risk specifically.

Wall Street, it seemed, had disregarded the possible impact of a string of “unknown unknowns” on increasingly complex and fast-moving financial markets that were more reliant on leverage than ever before. “It was all about denial, and every day one more person would realize that they couldn't stay in denial any longer,” says private equity manager Martin. Wall Street had spent too many years embracing returns and closing its eyes to risk; now it was more vulnerable to a “perfect storm,” while at the same time less prepared to survive the havoc such a storm would bring. “Some of us knew that something nasty was inevitable; in a way, we were all waiting for our comeuppance, for our cavalier attitude to risk to come back and bite us on the ass,” one senior Wall Street executive recalls of the summer of 2008. “We were waiting for the next shoe to fall.”

## Understanding—and Misunderstanding—Risk

Everyone thinks about risk and return every day, whether consciously or unconsciously. When you wake up in the morning, you face the decision to get out of bed and go to work. The return is pretty straightforward: you keep your job and earn a salary to pay your mortgage and cover the grocery bill. Sometimes you accept greater-than-usual risks because you see the reward as also being above average. How many men who normally wouldn't dream of speeding aren't tempted to do just that when they are driving their pregnant partner, now in labor, to the hospital?

What happens on Wall Street isn't all that different; it's just a bit more intense due to the fact that financial markets revolve very explicitly around the dual concept of risk and reward. An investment manager takes risks—buying stocks, bonds, or other securities—in hopes of earning a return for her clients; if those risks don't generate profits, it's because she has misjudged either the

investment's return potential or the risks associated with it. Similarly, every time a trader on a Wall Street bond desk takes a bullish or bearish position in Treasury notes ahead of the employment data released on the first Friday of every month, he is assessing how much he could earn if the data show that 300,000 new jobs have been created the previous month or how much he might lose if it shows that 150,000 jobs were lost. Different data will have different consequences for the value of his Treasury notes. A skilled trader needs to be able to judge the myriad risks associated with his conclusion about the data and the Treasury position he chooses to establish. If he gets it right, how much might he earn? If everybody else in the market agrees with his assessment of the risks and potential returns, it's like betting on the favorite in the Kentucky Derby: the return will be minimal unless the trader makes the bet riskier by borrowing the money—in other words, unless he can use a lot of leverage. Betting on an outside chance, in contrast, offers more upside potential but carries a lot more risk of a different kind.

One of the biggest problems with risk is that its real level and nature are clear only with hindsight. Consider two hypothetical money managers, both of whom buy Google stock at the time of its IPO and hold on to it for the next four years. Now assume that one of those managers invested 20 percent of the assets she managed in Google, while the other invested only 2 percent of her fund in Google stock. At the time of the investment, the first manager would be called reckless and foolhardy by her peers and probably also by some of her clients; few self-respecting professionals would choose to keep so many investment eggs in a single basket. But by the end of 2008, it is likely that manager's bet on Google, however risky it looked at the time, would have paid off. Now, let's suppose that she did something even riskier by investing the remaining 80 percent of the assets she managed in Treasury securities. The risk here is a different one; she's not running much market or credit risk, since Treasury bonds are among the safest investments around, but she risks dramatically underperforming her peers because the tradeoff for that low risk is a tiny annual interest payment. Of

course, what is seen to be risky behavior in one context may look prudent or benign in another, as Treasury bonds outperformed every other asset class, except cash, throughout 2008.

It's often hard to correctly identify or understand the risk that you are actually running. Wall Street veteran and risk analyst Leo Tilman points out that even as the fees investment banks earned from their traditional businesses slumped and Wall Street institutions turned to “active risk taking” to generate returns for their shareholders, they were lulled into a sense of false security about the level and nature of risk.<sup>3</sup> “When the environment that you're doing business in is very benign, the risk management models start telling you the level of risk is declining, so you feel comfortable taking on more risk,” Tilman explains. Whenever investment banks alter their traditional business model in the pursuit of higher fees, higher returns on equity, and higher bonus packages, they automatically take on more risk, he says. The commoditization of traditional businesses—as discussed in [chapter 3](#)—forced Wall Street firms to focus on new kinds of business, most of which involved new kinds and often higher levels of risk, Tilman believes. “The paradigm of risk management never caught up with reality,” he argues.

In Tilman's eyes, the CDO business, which produced so much of the carnage on Wall Street in 2007 and 2008, is *prima facie* evidence of the Street's misunderstanding and mismanagement of risk. To the likes of Merrill Lynch and UBS, buying up mortgage-backed securities and repackaging them into these new structured CDO products (the CDO would then be sliced up into tranches on the basis of different risk and return characteristics) was simply a new way to earn the same kind of fees they had always earned. It wasn't really a new business, they reasoned, especially in a low-interest-rate environment. They saw it as “a riskless fee business,” Tilman says.

In the eyes of Wall Street, a business that generates a fee is inherently far less risky than one that requires a long-term investment of capital and where returns come in the form of profits following the sale of an asset some time in the future. So even as

the Wall Street firms committed more and more capital to the CDO business, they could tell themselves they were still acting as intermediaries between the mortgage originators and the ultimate investors. That gave them an artificial sense of security. Tilman argues that such behavior bordered on the delusional. “If you’re gathering CDOs together in a warehouse and packaging them up, and the market suddenly freezes, well, that’s a big risk,” he says. “It doesn’t matter that you would have eventually earned a fee from the transaction. If you believed it was a plain and straightforward transaction and if you didn’t hedge the risk of keeping all those [mortgage-backed securities] on your balance sheet while you packaged the CDO, well, you didn’t understand the risks you were really taking.”

Tilman watched the debacle take shape and then unravel from positions at BlackRock and later as an investment strategist at Bear Stearns advising the firm’s pension fund clients and other institutional investors. In his view, this pattern showed up across the whole array of Wall Street’s most popular and most profitable new business lines. “Opening a proprietary trading desk, providing short-term financing for leveraged buyouts, serving hedge funds, starting an in-house hedge fund—none of this is as low-risk as people convinced themselves it was.”

Of course, everyone on Wall Street knows that their business revolves around risk. But when you ask them about it, they’ll tell you it’s not about Wall Street taking risks, it’s about Wall Street helping its clients offload what they consider to be unacceptable risks to another player. It’s about risk transfer. The classic example of this is one of the most basic derivative securities, the swap: in its original form, this was a way for a company to exchange debt on which it had to pay a variable interest rate for fixed-rate debt, making its finance costs more predictable. Still, as big investment banks became more complex and placed more emphasis on using their capital to generate returns, they admitted it was time to hire in-house risk managers.

Ideally, Wall Street risk managers should play the role of circuit breakers. They should be able to force the bankers and traders at

the various investment banks and other institutions to pause to consider whether they really understand the risks they are about to run and whether the potential return seems worth it. Unfortunately for everyone, Wall Street's relationship with risk managers hasn't always been healthy or productive. Financial institutions have pushed risk management to the sidelines and overlooked it entirely just when they needed it the most: when the level of greed is rising to new heights.

### The Least Popular Guys on the Street

Wall Street loathes a party pooper—the guy who arrives on the scene and shakes his head in solemn disapproval of the antics while everyone else is having fun. This most unpopular subspecies wants you to walk away from a deal that is going to generate hundreds of millions of dollars in fees, especially when it's going to cost you a zero on the end of your annual bonus check.

Risk managers on Wall Street are about as popular and welcome as a sensible spouse or cautious bank manager whispering words of reason to a Vegas gambler about to bet the ranch at blackjack. The last thing that a Wall Street banker wants is for that risk manager to acquire enough power internally to force him to listen and limit the risk he's taking. Bankers see risk as a way to make profits for themselves and the firm's shareholders; risk managers, meanwhile, want to be sure the institution survives long enough to book those profits. Not surprisingly, those interests often clash, and finding a compromise is hard because both have logic on their side. Play it too safe, and the bank won't make money; take too much risk, and the bank won't exist much longer.

On Wall Street, however, the political power is in the hands of those who want to take more and more risk, not those who advocate caution. That's because the bankers and traders who generate the heftiest profits over the longest time periods (and who also have the diplomatic skills to win the support of large numbers of other big revenue producers) are the people who rise to the

positions of power within investment banks and other financial institutions.

That's what happened at Goldman Sachs, which once had maintained a balance of power between trading and investment banking within its leadership. (One odd couple was Bob Rubin, a veteran trader, and Stephen Friedman, known for building the firm's merger advisory business, who were co-chairmen of Goldman in the 1990s.) But by the new millennium, the leadership was coming under the control of the traders, such as Blankfein and Gary Cohn, the firm's president, both of whom had begun their careers at J. Aron, the commodities and futures trading business Goldman had purchased. Their trading operations were driving profits, and they were comfortable with risk; still, their priority was clearly on maximizing returns. That's how any banker gets to a position of power and influence in the first place, and it's what they need to keep doing in order to keep shareholders happy and retain their jobs. Anyone who wonders if it might be wiser not to push the risk envelope just has to recall the fate of Phil Purcell or Mike Gelband.

Jaidev Iyer learned the lesson about the balance of power between risk managers and reward seekers firsthand during the twenty-eight years he spent at Citigroup. From the Global Association of Risk Professionals (GARP) offices in New Jersey, Iyer has a panoramic view across the Hudson River to the gleaming office towers of Manhattan, including the skyscraper where he toiled as head of operational risk for Citigroup. He has an equally panoramic view of what went wrong on Wall Street. "Everyone is to blame," he says flatly. "No one is exempt, and I include risk managers in that." But risk managers carry a different burden and thus a different kind of blame, he argues. "Their primary failure was a failure to understand or communicate the risks."

Think of the old legend of the turtle and the scorpion. The scorpion, who needs to get across the river but can't swim, asks the turtle to carry him. The turtle initially scoffs at the idea. "Are you mad?" he demands. "You'll sting me while I'm swimming and I'll drown." The scorpion points out that if he did, he'd drown, too. "Where's the logic in that?" he inquires. The turtle, convinced, tells

the scorpion to hop aboard, and starts swimming. Halfway across, the scorpion stings the turtle. As they sink to the bottom of the river, the turtle turns resignedly to the scorpion and asks, "Why did you do it? You said there'd be no logic in you stinging me." "It has nothing to do with logic," the scorpion answers sadly. "It's just my character."

On Wall Street, the turtle is the risk manager who knows full well that the nature of the bankers and traders is to take as much risk as they can in pursuit of profits. Failing to find an effective way to communicate the potentially toxic consequences of loading up the bank's balance sheet with subprime loans is the equivalent of the turtle agreeing to ferry the scorpion across the river. The risk manager becomes complicit, indirectly, in the subsequent losses and write-downs.

Iyer says managing risk on Wall Street is more easily said than done, since risk managers don't generate profits for their firms and can even recommend actions that would curb short-term gains. "The guy who is always forecasting Armageddon is never going to be the guy anyone wants to listen to; if you listened to him all the time, you'd never do anything," Iyer says. "You have to do that without becoming a wet blanket."

Still, Iyer admits that during his years at Citigroup he found it difficult to always practice what he preaches. At a 2007 meeting of the bank's risk committee, he annoyed Tom Maheras, the powerful co-head of investment banking, by suggesting that the latter hadn't set aside enough capital to provide for some operational risks Iyer had identified. Maheras, a bond expert and a veteran of Salomon Brothers and its high-risk, high-return culture, was an aggressive banker who had risen to the top ranks of Citigroup. Transforming the bank into the dominant global fixed-income trader and propelling it toward the top of the underwriting league tables meant taking on more risk, he was convinced. Sure enough, Citigroup's average value at risk (VaR, pronounced as one word to rhyme with car), a measure of how much the bank could lose in a single day if its strategies fell apart or the markets turned sour, soared from \$63 million in 2001 to \$105 million by 2005.

Perhaps Maheras's track record made him comfortable with risk taking. Bankers who worked with him agree that to Maheras, risk equaled returns. Setting aside more capital to guard against future losses, as Iyer suggested was prudent, would crimp Maheras's style and potentially cap profits. Not surprisingly, Maheras was angry; Iyer's suggestion promptly died. More surprising, Iyer was told not to attend further risk committee meetings. Most surprising of all, it wasn't Maheras who had banned him but the bank's senior risk managers. "They wanted to keep Tommy happy," says Iyer with a shrug.

Others trying to alert top management at Citigroup to looming problems received even shorter shrift. Richard Bowen was named chief underwriter at Citigroup in early 2006—just as Wall Street approached the abyss. That promotion meant he was in charge of making sure that all the mortgages Citigroup's business divisions acquired for resale to government entities like Fannie Mae or other investors met the bank's quality standards. Within months, Bowen realized that nearly two-thirds of them didn't, according to the FCIC report. That meant that if they lost value, investors could demand that the bank repurchase them. Attempting to signal the danger to his superiors, including Bob Rubin, led only to expressions of concern; the only action was a renewed push to boost market share. "So we joined the other lemmings heading for the cliff," he said in an interview with FCIC staff.

Bowen's career also went off the cliff; after he began sounding the alarm, his bonus was slashed, he went from supervising 220 people to overseeing only 2, and his performance evaluation was downgraded, the FCIC reported. He wasn't alone: across Wall Street, numerous other risk managers or business-unit heads who detected the risks their institutions were running and who tried to apply the brakes, were fired, sidelined, or stripped of any power. At Merrill Lynch, for instance, risk managers no longer occupied positions on the trading floor where they could watch what was occurring in "real time."

Maybe it shouldn't have been all that astonishing. However important the risk management function seemed to be to those



performing it—they knew their activities helped keep their institutions from incurring large losses or running afoul of regulators—risk management didn't generate profits. And profits are all-important on Wall Street, whose icons are bankers such as Maheras, Joe Perella (now out on his own again after leaving Morgan Stanley), or Jimmy Lee at JPMorgan Chase. This list would include some hedge fund managers and buyout investors. But ask the average investment banker the name of Wall Street's smartest risk manager and you'll likely get a blank stare in response. Even the most successful toil in anonymity.

The UBS forensic analysis of the causes of its massive losses confirms that risk managers had trouble getting their message across. In some cases, they had become too eager to please the more powerful bankers. The UBS report cites one example after another of occasions when managers at all levels silenced points of view that conflicted with their own. UBS bankers complained that the bureaucracy associated with risk management caused them delays in earning revenue from new businesses; their logical response was to find ways to bypass the risk management team or to co-opt them. When bankers explicitly requested more favorable treatment for pet projects, risk managers listened agreeably. In one case the report concluded that if the risk team had been more alert to their circuit-breaker role, such a request could have pushed the bank "to rethink the rationale for the business model as a whole."<sup>4</sup>

Some on Wall Street did listen to what their gut was telling them: that when things seem too good to be true, there is usually something amiss. Whether or not the increasingly popular quantitative risk models captured it, risk-conscious bankers and their analysts knew instinctively or had learned from experience that when it seemed as if nothing could go wrong, it was time to look around for the hidden iceberg ready to rip a hole in the side of the vessel. But to be able to ask the right questions and draw the right conclusions required not only common sense but also the willingness to be a contrarian, even in the absence of evidence that there was a real reason to be alarmed.

## Asking Questions, Challenging Models

At Sandler O'Neill, a boutique investment bank catering to financial institutions, CEO Jimmy Dunne was aware that he had a few hundred million dollars' worth of trust-preferred securities (a kind of low-cost financing favored by financial companies) sitting on the firm's balance sheet in the spring of 2007. That was routine; Sandler O'Neill was warehousing the securities while awaiting the right time to repackage them and sell them to investors. But Sandler O'Neill's balance sheet was much smaller than those of firms such as Merrill Lynch, making Dunne nervous. He started investigating the firm's risk.

It all boiled down to just one question, which Dunne asked in the summer of 2007. He wanted to know how much collateral the firm had on its balance sheet in connection with the trust-preferred securities. Hearing the answer, and realizing that the figure was out of whack with the historic average, Dunne reacted instantly. "I told them to get out [of the positions in the trust-preferred securities], forget what the models said [about value], to just sell everything. I had to assume the worst-case scenario, for the sake of the firm."

Dunne had learned over the years that following closely in the footsteps of bigger Wall Street institutions wasn't necessarily prudent. More than a decade earlier, his closest friend and the head of investment banking at Sandler O'Neill, Chris Quackenbush, had pointed out that just because a firm is bigger doesn't mean its behavior or attitudes are worth emulating. They had both learned that lesson when Sandler O'Neill underwrote a new stock issue for a client alongside Salomon Brothers (now part of Citigroup). Quackenbush cautioned Dunne that the SEC rules required underwriters to stay out of trading activity in the stock for two days after the issue was priced and sold. The next morning, Dunne spotted Salomon's trading desk busily making a market in the stock and raking in fees. He stormed into Quackenbush's office, furious at losing potential profits to a rival firm. "I said, 'Look, pal, don't tell me they don't have lawyers and risk guys all over at Salomon."

Come on, we're losing money!' ”

Quackenbush—one of the sixty-six Sandler O'Neill employees killed in the 2001 terrorist attack on the World Trade Center—stood up to Dunne. “He said he didn't give a hoot—only he didn't use the word hoot—about what another firm was doing,” Dunne recalls. What mattered was that Sandler O'Neill should do the right thing and not take foolish risks. Dunne says those events taught him a lesson he would later recall as he watched Merrill Lynch, Citigroup, and others accumulate massive exposure to subprime CDOs. “The big guys may build the system that the rest of us have to live in, but we don't have to follow what they are doing blindly,” he says today.

It would have been far harder for Citigroup to sell or hedge the \$43 billion in subprime securities sitting on its balance sheet than it was for Sandler O'Neill to slash its much smaller exposure. But in the summer of 2007, Citigroup's CEO, Chuck Prince, didn't seem to be asking the same questions that Dunne was. Indeed, it wasn't until he convened a meeting in September to discuss the market meltdown that was already under way that Prince grasped the magnitude of the bank's exposure. His once-blissful ignorance would cost him his job before the year was over. At Merrill Lynch, Stan O'Neal had built a culture revolving around his dream of transforming the firm into the next Goldman Sachs; now he too was put out to pasture. (Nearly simultaneously, and perhaps not coincidentally, Merrill finally created and filled the position of chief risk officer.)

Wall Street investors were much more alert to subprime-related risks. They watched with concern as Wall Street's CDO creation machine churned out more and more of these structured products, each containing a higher proportion of subprime loans than its predecessor. But then, they were looking at the market from the perspective of an investor, and had long had concerns about the extent to which ultralow interest rates failed to reflect the real levels of risk. “The pricing became ridiculous,” says Bill Kohli, a fixed-income manager at Putnam Investments in Boston. “The more risk you took, the better your performance was: [bond] yields got

so low that in order to generate the same returns you had a few years earlier, you had to take a lot more risk.”

If Wall Street’s investment banks and the mortgage companies who were providing them with their raw material didn’t get the trade-off between risk and return, investors did. For them, buying CDOs was a long-term investment, in contrast to Merrill Lynch or Citigroup, which planned to pass the CDOs to someone else, along with their risk. To compete with their rivals, investment managers need to offer superior returns, but to keep their own investor base satisfied, those returns have to be steady and consistent. Taking too much risk raised the odds of losses, which would in turn cause fund investors to demand their money back.

By 2006, it seemed to Kohli and many of his peers that whichever way they turned, they saw only risk. Many bond managers recognized that yields being offered on corporate bonds were ridiculously low by historical standards; since bond prices and yields move in the opposite direction, for investors to make money by buying those bonds, the yields would have had to fall still more, an improbable scenario. Yield levels were so low that just pocketing a bond’s income stream wasn’t an attractive option, either. And anyway, how many of those securities might run into trouble if the economy stalled and borrowers struggled to make payments?

Another risk was that an increase in bond yields would send the bond’s price, and therefore its value, plunging. Many still decided to hold their noses and buy higher-yielding products, reasoning that many of those structured CDOs had been assigned triple-A credit ratings by Moody’s or Standard & Poor’s. Somehow, a majority of them managed to overlook the odd fact that for every blue-chip U.S. company worthy of earning a triple-A rating from one of those credit rating agencies, there were thousands of structured products carrying the same seal of approval. Others began to balk as the products became increasingly complex or opaque, or valuations reached what they considered to be extreme levels. Some, including BlackRock’s Scott Amero, did the due diligence into the loans that underpinned these securities and recoiled in horror at what they

found. Between the summer of 2006 and late 2007, the number of borrowers who defaulted on their new mortgages only months after signing on the dotted line doubled, as the FCIC reported. Some homeowners never even moved into their new abodes. “Buyers of CDOs are given a take-it-or-leave-it deal; the investor isn’t at the table participating in the discussion of how to structure the CDO alongside the issuer and the guy from Moody’s or S&P,” says Ed Grebeck, CEO of Tempus Advisors, who teaches courses on structured finance at New York University. “For fixed-income managers, this was what was available—end of story.” And fixed-income managers were encouraged to put their trust in those ratings; after all, the ratings told them whether a particular bond could be added to their portfolios.

Aware that the CDO vendors are in the business of boosting their own bottom line, some investors began focusing instead on relative risk. “There were blue-chip companies that were the subjects of leveraged buyouts, and many of those leveraged loans and bond issues, while a bit pricey sometimes, weren’t flawed,” says Amero. “They certainly suffered [in the midst of the credit crunch], but they [were] still securities that we believed [were] fundamentally good.” He points to the loans sold in connection with the \$26 billion buyout of First Data Corp. by KKR as an example (although the company, as of early 2010, was recorded as incurring a loss for KKR itself).

Some investors couldn’t react to the risks they identified. A bond fund mutual fund manager, for instance, has to invest in the kinds of fixed-income securities that are deemed permissible by the terms of the fund. But while such rules left many mutual fund managers in a bind, hedge fund managers had far more freedom of action. While raising capital, a hedge fund manager spells out the broad strategies that he intends to employ to generate returns in an offering document—a “long/short” or “event-driven” strategy, for instance—but he usually leaves himself with a lot of room to maneuver. So when John Paulson began to grow alarmed by what he believed was a credit bubble, all he had to do was decide how to profit from the recklessness of others.

Paulson, a former investment banker, decided that the subprime mortgage market was the part of the credit bubble that seemed the most overextended. He began using derivatives to short subprime mortgage securities in April 2005. It was the culmination of months of thought, analysis, and planning; the bigger any subsequent decline, the larger the profits Paulson's fund would capture. "We thought [this position] was a terrific risk-return tradeoff where you can risk 1 percent and make 100 percent," Paulson said in July 2007. "The exuberance in the credit markets and the massive liquidity was severely mispricing these securities."<sup>5</sup> That turned out to be the understatement of the decade. Paulson's Advantage Plus Fund returned 158 percent to investors in 2007 and another 37.6 percent in 2008, a year in which the Standard & Poor's 500 index fell 36.9 percent. The Credit Opportunities Fund fared even better, returning 600 percent to investors. Paulson himself pocketed an estimated \$3.7 billion as his share of those returns; by paying heed to hidden sources of risk, suddenly he had become simultaneously a billionaire and a household name.<sup>6</sup>

If Paulson, working outside the mainstream investment banking community and relying on public information, could spot what was going on and take action, why couldn't Wall Street itself? Only a handful of mavericks such as Paulson spotted the opportunity to be a contrarian; few bankers seemed to have any sense of the risks associated with their own behavior and/or felt the need to act. Some of these were at Goldman Sachs, whose chief financial officer, David Viniar, convened a meeting in December 2006 to discuss subprime-related risks. The participants (who included risk managers) agreed they would kick off the new year by establishing a short position, a strategy that paid off richly for the investment bank and certainly contributed to its survival. Later, Lloyd Blankfein would attribute Viniar's initiative to what he described as Goldman's greatest "risk protection"—giving as much status, prestige, and compensation to the risk managers seeking to control the investment bank's finances as it did to the bankers and traders.<sup>7</sup>

For the most part, however, Wall Street seemed content to pursue its own peculiar brand of magical thinking. In the parallel universe

as imagined by investment bankers, risk was minimal and readily managed, the supply of cheap credit was endless, and buyers were eager and plentiful. Wall Street's willingness to act as if reality was what they imagined it to be generated a toxic combination of blind faith in its own ability to manage risk and willful blindness to what should have served as warning signals. The result would be the effective demise of three of the five largest investment banks (Bear Stearns, Lehman Brothers, and Merrill Lynch, the last of which opted to be acquired by Bank of America) in little more than six months in 2008. It also brought about the near collapse of Wall Street itself.

### Wall Street's Magical Thinking

Key to Wall Street's magical thinking was its reluctance to look risk straight in the eye. Of course, until the summer of 2007, there were few obvious signs that the bull market in credit would have such cataclysmic consequences. Those who persisted in voicing discomfort about the pace at which deals were being done, at the lofty valuations or at the degree of leverage, might be proven right in the long run, but for now would be laughed at and shunned, and perhaps even lose their jobs.

"Even to someone with a lot of expertise in risk management, it was hard for us to envisage while we were absolutely awash in liquidity that the biggest risk we faced was the sudden evaporation in market liquidity," says Leslie Rahl, founder of the risk consulting firm CMRA, whose "workouts" have included many of the derivatives debacles of the 1990s. What seems obvious now wasn't at the time, she adds. "It seemed illogical not to just keep doing what had worked." After all, until early 2007, there hadn't been a bank failure in nearly three years. Even when Pittsburgh's Metropolitan Savings Bank collapsed in February 2007, there was no reason for magical thinkers to view it as anything other than an anomaly; only three institutions were shuttered by the FDIC that year, the same number as failed in 2003.<sup>8</sup> And 2003 had turned out

to be a pretty good year for financial markets, they reasoned.

When Wall Street worried that it might be missing the warning signs of an extreme event that could threaten the financial system as a whole, the issue of a credit market bubble and subprime lending rarely served as the focus of those debates. Instead, risk managers at firms such as Lehman Brothers in 2006 worried about the impact of another terrorist attack like those of September 11, 2001, or of an epidemic of avian flu on global financial markets.<sup>9</sup> In contrast, the ultraliquid credit markets seemed unlikely to be the center of a financial markets disaster rivaling the 1929 stock crash in magnitude and significance. In the absence of any bank collapses and in the presence of record low bond default rates, the calculus made sense. Maybe there was a credit bubble out there, but bubbles can exist for a long time without bursting. An investor or banker who takes to the sidelines at the first hint of trouble can lose a lot of money and forfeit his credibility, the late 1990s had demonstrated only too clearly. Former Fed chairman Alan Greenspan wryly reflected on the relevance of that period, noting that “underpriced risk—the hallmark of bubbles—can persist for years.”<sup>10</sup> (It took three years from the date Greenspan warned of “irrational exuberance” for the dot-com bubble to finally burst.)

Wall Street, by and large, wasn't listening to its risk managers. It wasn't doing its best to detect warning signs. While most experienced risk management professionals agree that the very time a business is booming is exactly the time to start worrying more about what risks might be going unnoticed (from excess leverage to the presence of a rogue trader), Citigroup's David Bushnell instead admitted to the FCIC that, in general, his risk management team actually boosted risk limits for a growing business. One of his team, Ellen Duke, later acknowledged that she didn't worry as much as she should have about the CDO business, in large part because she believed that the way the products were structured would reduce rather than increase the amount of risk. She confessed to being “seduced by structuring.”

Wall Street seemed to be relying exclusively on a handful of quantitative risk-management models to save the financial system



from disaster. The immense forward leaps in computing power that had made possible the creation of complex derivatives and other structured products had also made it possible for mathematical minds to devise ways to track and calculate different kinds of risk across a multitude of different business segments rapidly and efficiently. Computers also made it possible to simulate shocks to the system and watch how markets behaved. These models had a kind of entrancing elegance to them, and that helped produce an unwarranted degree of confidence in the numbers they generated. What users of these models forgot is that simply being able to generate a number and label it “risk” didn’t mean that the model’s assumptions were correct, that the number was useful or would remain useful in all market environments—especially because a growing proportion of the securities that could swing most violently and trigger the biggest losses for their holders weren’t publicly traded, but “over the counter” derivatives. The spread of derivatives made risk management a more complicated task. If an investment bank had shares of Cisco and General Electric on its books, for instance, the impact of a market shock would be relatively straightforward to calculate; those stocks trade on an exchange and have a clear market value. But only a fraction of the world’s financial instruments are that easily monitored. What would happen to a corporate bond? They don’t trade as often, and dealers in those bonds make a market in them on an ad hoc basis when a potential buyer or seller requests price information. Who would be willing to be an intermediary in times of market stress? And at what price? Then there are the derivatives, which also aren’t traded on an exchange (except for the plain-vanilla variants, such as options and futures contracts) and which often are highly customized products that don’t have a logical buyer.

That’s just the very tip of the iceberg. Today’s investment banks are global: their risks can be related to the trading they do with a Kazakh oil and gas company, the loans they make to a Thai retailer, or a buyout they finance of a Mexican food processing company by a European conglomerate. Throw a stone in the waters of global markets today and the ripples will take a more unusual shape and

stretch far wider than they would have a decade ago. Hence the allure of the quantitative risk management model in the eyes of investment bankers.

## The Value at Risk Conundrum

The best-known of these models is the famous (or infamous) value at risk (VaR) model. “Essentially, that was the solution devised to the problem of a CEO who walked onto the trading floor and wanted a simple answer to the question of how much risk the investment bank was running today,” explains Jaidev Iyer of GARP. “With VaR, you could give him a single number—how many dollars the bank could lose today if things went wrong.” VaR vaulted into prominence when an international group of banking regulators, the Basel Committee on Banking Supervision, explicitly endorsed it as a way to gauge how much capital a financial institution is putting on the line, and thus to calculate how much capital it should set aside to shield itself should those risks backfire.

The result was the Basel II accord, first published in 2004, which required financial institutions to incorporate risk into their balance sheet decisions. In quest of additional profits, financial institutions pushed hard for a tradeoff: if they could demonstrate that they had all kinds of risk management models like VaR, then regulators would give them a break by relaxing requirements on how much capital they had to possess to guard against big losses. The tradeoff was alluring to the bankers; regulators would later argue privately that they had always had reservations but capitulated under relentless pressure from the industry. The balance had shifted: regulators now would, de facto, be more dependent on the banks’ own in-house evaluation of the magnitude and nature of the risks the latter were running, despite the fact that those financial institutions had every incentive to underestimate those risks.

After a lot of debate—it took five years to hammer out the basic principles, and implementation still wasn’t complete when the crisis broke—the signatories (including central bankers and other

regulators from twenty different countries) finally agreed that banks, investment banks, and other financial institutions could rely on VaR as a way to gauge risk. The lower the VaR, the less capital an institution needed to set aside to shield the firm from risk. But at the end of the day, no one was happy. “Nobody believed in it and nobody used it, except in the annual report and to tell regulators what was going on,” says one former regulator. “Everyone in the regulatory community knew there were failings with this process. But at the same time, it had been so hard to agree on this, and so controversial, that no one who worked on Basel ever wanted to reopen the topic for discussion again.”

The biggest problem with VaR—and with any other effort to model risk—is that while Wall Street may concern itself with numbers, human behavior is just as important a determinant of what happens there. And human behavior is notoriously difficult to quantify. But as VaR increasingly demonstrated throughout the Wall Street crisis, numbers didn’t tell the whole story.

To start with, VaR couldn’t give anyone an accurate picture of how well risk was being managed. For instance, the VaR associated with Goldman Sachs’s sales and trading business was \$101 million in 2007, meaning that on any given day, that was how much it might lose with a defined degree of probability. Goldman was second only to Citigroup in the amount of risk, and it also earned more in revenues than any other financial institution from those trading activities—\$27.5 billion in 2007, up 21 percent from the previous year. On the surface, Lehman looks less risky in absolute terms. Its VaR was \$92 million, and its revenues from sales and trading were about half of those at Goldman. But VaR doesn’t tell the whole story. It was Lehman, not Goldman, that experienced the biggest increase in VaR (it more than doubled, the highest rate of growth of any investment bank in 2007), while it increased only 37 percent at Goldman Sachs. Moreover, the size of Lehman’s VaR relative to that of its trading revenue was higher than the same ratio at Goldman. Moreover, Goldman lost money on fewer trading days in 2007 than in 2006; the number of days on which Lehman’s traders lost money jumped from five in 2006 to thirty-three in

2007. Goldman made more than \$100 million on each of eighty-nine trading days; Lehman pulled off the same feat on only thirty-one days.<sup>11</sup> In other words, VaR alone gives a hopelessly inadequate view of the two organizations' ability to manage the level of risk that they were taking. "It didn't tell you anything at all about the caliber of assets on the balance sheet connected with those risks, or the skill of the bankers and traders," argues one veteran banker and risk manager.

It didn't help that some of Wall Street's more aggressive CEOs were prodding their traders to take more risk and, like Stan O'Neal at Merrill, constantly asking the heads of various trading desks why they weren't taking on still more risk in pursuit of higher profits. Even as it increased, O'Neal was heard to expostulate that VaR was too low at Merrill, given the "real" risks and the bank's overall objective. Fixed income markets weren't cyclical anymore, O'Neal told board members; risk was a less risky concept. Not for a second did he contemplate the reverse theory: that the models no longer reflected reality.

The methodology used to calculate VaR is also problematic. VaR, like most other risk management models, is based on a series of assumptions, which in turn depend on probability and statistics. That means that VaR is shaped by what has happened in the past, and more specifically by what has happened most frequently. In some cases, there are a lot of data to draw on: the real estate market, for instance, has more than a century of reasonably reliable data, while the bond market has seventy or eighty years' worth. At the other end of the spectrum, risk managers can draw on only five years' worth of robust data available on credit default swaps, the newest breed of derivatives, which played a critical role in the market meltdown. VaR places more reliance on recent history than it does on the broad sweep of past events, but the biggest shocks have no historical precedent. As Greenspan sadly admitted to Congress, the models weren't designed around periods of maximum stress. Had they been, bank capital requirements would have been higher. Instead, Greenspan opined, "the whole intellectual edifice [of risk management] collapsed."<sup>12</sup>

VaR also relies on probability. The more frequently an event has occurred in the past, the greater weight it is given in VaR. (Another problem: the more time elapses between market crises, the fewer bankers and traders have actually witnessed extreme events; by 2008, only a tiny handful of former financiers recalled the events of 1929, and almost none of them were still working actively on Wall Street.) By definition, therefore, VaR discounts the risk associated with an extreme event such as the 1987 stock market crash or Long-Term Capital Management's collapse. But while those are statistically unlikely to recur, such "unknown unknowns" are exactly the events that are the most destabilizing and thus the most critical to risk managers. Nassim Nicholas Taleb became just as famous as John Paulson (if not as wealthy) following the publication of his book *The Black Swan: The Impact of the Highly Improbable*, which points out just how frequently those events occur. Before the rest of the world "discovered" Australia, all swans were white; every empirical observation over the course of millennia supported that proposition. And yet, as the discovery of the first black swan in the antipodes proved, it was a false theory.

It was what Lehman's risk managers couldn't imagine, because it was outside of the realm of their knowledge, experience, or the all-important data, that would lead to the firm filing for bankruptcy two years later. In Taleb's view, these "Black Swans" are far more common than we'd like to think, and the biggest risk management flaw of all is the fact that we are so reluctant to admit that there is no such thing as a perfectly functioning crystal ball. Could someone in 1900, with the knowledge that was available as of that date, have predicted World War I and its consequences, including the Third Reich and the rise of the Soviet Union? he wonders. Of course not. The knowledge of the future available to a citizen at the dawn of the twentieth century was as limited as ours is today. That has ramifications for trying to manage risk on Wall Street. "In finance," Taleb concludes, "people use flimsy theories to manage their risk and put wild ideas under 'rational' scrutiny."<sup>13</sup> Black Swans are, by definition, impossible to quantify until they have occurred and thus become knowable. by which time it's too late.

Those who rise quickly to positions of power on Wall Street these days tend to be people with strong mathematical skills and a natural quantitative bent, because that's what it requires to come to grips with the complex financial instruments that dominate today's financial system. These individuals gravitate to quantitative tools for help in understanding risk. When they spot a possible Black Swan rising like a storm cloud on the horizon, their first instinct isn't to ask themselves the most basic question: "What might this be? Is it something I recognize, or is it something new that is going to force me to alter the way I think about the world?" Instead they plunge into their comfort zone—quantitative analytics—to see if they can make sense of this mysterious cloud. By the time they realize they can't, that it's something new and very ominous indeed, it's too late.

Even after the collapse of Bear Stearns and Lehman Brothers, in which liquidity risk had played a major role, bankers still continued to focus far more attention on credit risk and operational risk than on developing methods for predicting whether liquidity is about to evaporate. Ironically, the level of risk associated with flawed models (including risk management models) was even less of a priority, something that only 58 percent of respondents attempted to manage, according to a survey conducted by accounting giant Deloitte in late 2008.<sup>14</sup>

Quantitative risk measurement and management tools will remain problematic as long as financial institutions have a vested interest in interpreting the results the way they feel best helps them continue to pursue profits at all costs. A firm with a high VaR can reassure itself that its traders are better than their rivals at managing that risk, so the level or rate of increase is nothing to be concerned about. Moreover, as long as that high VaR is accompanied by a jump in revenues and profits from taking the risks, what is there to worry about? For Sir Deryck Maughan, plenty. At an industry conference in December 2009, the British banker, now a partner at KKR, warned his colleagues that many of the mathematical models that had led financial institutions to discount or overlook what proved to be toxic risks were still being used. The industry, he said, had not "faced up to the intellectual failure of risk management

systems, which are still hardwired into many banks and many trading floors.”

Above all, regulators still worry that the banks will try to compute VaR in such a way as to reduce their capital requirements. Since financial institutions can make money only on capital that can be used (and the leverage that they can apply while using that capital), the lower their capital requirements and the greater the capital they can use, the more likely the bank or investment bank is to generate an outsize ROE. That potential global competition to have the lowest possible capital, warned Sheila Bair, chairman of the Federal Deposit Insurance Corporation, in a June 2007 speech, “is a game with no winners.” Bair worried that the Basel approach came too close to letting banks set their own capital adequacy standards, an approach she compared to letting each football player set his own rules in a championship match.

Bair’s warnings, and her subsequent contributions to the debate over Wall Street’s future, identify her as perhaps one of the most prescient Wall Street regulators of the last quarter century. At the time the Basel II signatories agreed to this approach, markets were unusually benign, volatility was at very low levels, and bank profits were strong and rising. That alone should make regulators think twice about what constitutes an acceptable level of capital, she cautioned. There is a “danger [in] thinking that banks will have enough lead-time to ramp up their capital as economic conditions deteriorate.”<sup>15</sup> In light of the events of the next eighteen months, which included frantic and sometimes failed attempts to replace capital being eroded by write-downs, those remarks are striking. Bair, it seems, was able to do what Wall Street’s best and brightest minds couldn’t: envisage a day when the future might not be as rosy as the present. But then, regulators don’t get bonuses for delivering profits to the banking industry.

The Lemmings, the Cliff, and the Laws of Physics

In 1831, well-trained English troops were marching in step across a

suspension bridge near Manchester when it suddenly collapsed. Those assigned to investigate the tragedy discovered that the reasons for the collapse were tied to the laws of physics. British soldiers were drilled rigorously until they could march impeccably in step, or cadence, as it's known. But when it came to crossing the newly designed suspension bridges, this pattern proved to be disastrous. In some cases, the cadence of the marching can match the natural resonance frequency of a suspension bridge; in those cases, even though each step adds only a tiny amount of energy, cumulatively the impact of so many marching soldiers in cadence puts so much stress on the structure that the result is devastating. Once engineers realized what was happening, they set about devising new kinds of alloys that would reduce the natural resonance of a bridge to the bare minimum. Meanwhile, military officials recognized that marching in step, however desirable in nearly every other circumstance, was a foolish risk to take when crossing suspension bridges; they began instructing their troops to break cadence when crossing bridges.

This famous example of one of the laws of physics at work has an uncanny similarity to Wall Street. A Wall Street institution's employees are trained to pursue ROE at all costs, almost blindly, in the same way that soldiers are drilled to march in cadence, until it becomes second nature. Neither group questions the nature of that training until something goes wrong. In both cases, the result is a high level of systemic risk that no quantitative model can capture until it's too late. Just as each soldier concentrated only on making sure his steps exactly matched those of his fellow soldiers ahead of and on either side of him, on Wall Street few people seemed to pay attention to anything beyond the transaction at hand and its role in maximizing their group's profits and the firm's return on equity.

The groupthink worried Myron Scholes, coauthor of the Black-Scholes valuation formula, which made it possible for options and all kinds of other complex derivative products to find a home on Wall Street. Scholes (whose formula is the subject of much scorn from critics such as Taleb, who argue that it makes risk appear too understandable and too quantifiable) points out the inherent



riskiness of ignoring systemic risk. “Any one bank can measure its [own] risk” using models based on Black-Scholes or other research, Scholes notes. “But it also has to know what the risk taken by other banks in the system happens to be at any particular moment.”<sup>16</sup> In other words, just as no drill sergeant today would insist that his soldiers march in cadence at all times, regardless of the circumstances or the terrain, no financial institution can afford to ignore the possibility that what appears to be a riskless transaction in isolation can create risk to both the institution and the system if it’s repeated endlessly across Wall Street. One bank doing subprime CDOs wasn’t going to torpedo the financial system, but the banking system en masse cranking out so many subprime CDOs that subprime lending became the tail that wagged the dog came perilously close to doing just that.

That kind of copycat behavior also damaged regulators’ efforts to rein in risk, recalls Sheila Bair. The banking regulator had a “peer intervention” analysis that was designed in the expectation that one banker had a better chance than a regulator of figuring out if another banker was taking on too much risk. The problem was that so many institutions were doing exactly the same thing, and the problems weren’t flagged. Everyone was doing it; it was the new normal and everyone was making money doing it. No one caught on to the risk management flaw, Bair told the FCIC commissioners, “until the risky activities undertaken by all became unsustainable.”

Wall Street needs to break out of its old ways of thinking about risk and leave behind the notion that it can always be identified, quantified, and controlled. What is needed more than a risk management system is a risk-aware culture, as Deloitte advocated in its survey. Those institutions the accounting firm spoke to in the latter months of 2008 were already aware that their risk management programs weren’t doing a good job for them. Fewer than half of the respondents believed that those risk programs offered “significant value”; nearly a third told surveyors that risk management didn’t generate any value when it came to either boosting the quality of their earnings or improving risk-adjusted returns. Only 38 percent believed their risk management systems

helped limit losses when risks rose to the surface.<sup>17</sup> Indeed, almost the only area in which financial institutions felt that risk management programs were of significant value was keeping regulators happy.

Alan Greenspan may blame models for risk management failures, but it was human beings who devised those models, established their core assumptions, and then interpreted the results. As Sheila Bair had feared, there were ample incentives for misreading the level of risk in the financial system. Not surprisingly, most of them revolved around the two core drivers of everything else that happens on Wall Street—fear and greed. In this case, the fear was of being left behind in the battle for market share, profits, and return on equity, while greed was the allure of outsized bonus checks in exchange for taking risks and discounting the lurking presence of a Black Swan event that couldn't be quantified anyway. In presenting the final FCIC report in late January 2011, panel member and former CFTC chair Brooksley Born pithily described what followed as risk management turning into “risk justification.” When the upside payoff was potentially enormous, and the downside risk looked slight in terms of probability if not impact, then why not just set the real warning signals to one side, quietly, safely out of sight? In any event, the only way to rein in risk taking, many risk managers argued, was itself behavioral. “Top managers and directors need to keep asking how the bank is making this money, whether the business is sustainable, what assumptions is the risk taking based on, can we get clear and accurate and objective information on the business and its risks,” argues one banker turned risk consultant.

“Risk models always are a bit deceptive,” says Leslie Rahl, the veteran risk manager at CMRA. Let's say there are two portfolios, one of which is full of complex structured products while the other contains only plain-vanilla securities such as stocks and bonds. Both are run through risk management models that show that they have an equal level of risk—something that can happen in periods of prolonged market calm. Rahl says the response should be not to heave a sigh of relief and move on but to become concerned and

ask more questions about why two such disparate portfolios could appear to possess such a similar risk profile. “Until we come up with better methodologies, we have to find a way to adjust what the models say for the elements that the models can’t capture,” she points out.

Wall Street also needs to find a way to question its own assumptions, not just the conclusions drawn by models. The crisis we have just lived through wasn’t as impossible to predict as some Black Swan theorists might argue. The risks associated with subprime lending were clear; as a study by Federal Reserve economists on the crisis showed, many Wall Street analysts correctly predicted that a slump in housing prices would batter subprime loans and the CDOs that contained them. But they ascribed a low probability to that ever happening.<sup>18</sup> “For fifty years, housing prices nationwide had always gone up, even if just a little bit,” notes Michael Stockman, formerly a banker at UBS who now advises clients on portfolio construction as a managing partner of Corridor Quadrant. True, there were regional housing slumps, but one of the reasons that bankers felt comfortable giving mortgages to subprime borrowers was their confidence that even if they weren’t good credit risks, the value of their collateral—the house they bought—would never deteriorate. Even movements in major real estate indexes were referred to as “appreciation,” Stockman notes wryly. “No one could imagine depreciation.” Indeed, when prices did fall, the move was dubbed “negative appreciation.”

In medicine the adage that doctors first and foremost should do no harm causes physicians to second- and third-guess their original assumptions and send patients to other doctors for additional tests and second opinions. With no professional standard of that kind on Wall Street, there was no motivation for anyone within AIG’s head office to query the results that its London-based division, AIG Financial Products, was posting. Between 1999 and 2005, the division’s revenues soared 342 percent, to \$3.26 billion, as its financial engineers delved into the business of selling insurance to investors in CDOs in the form of credit default swaps. The business proved so successful that by 2005, AIG Financial Products was

generating 17.5 percent of AIG's revenues, up from 4.2 percent in 1999; profit margins on the business had nearly doubled.

Across AIG, there seemed to be the will to believe that this business would be the insurance world's version of the Internet, an innovation that would utterly transform its business by enabling savvy firms such as AIG to sell insurance against credit risk in the same way they insured people against hurricane damage or death. Investors paid their premiums, just as someone buying fire or life insurance did. Because the CDOs AIG was insuring carried top-tier credit ratings, the firm didn't need to worry about setting aside capital to make good on the insurance claim. AIG figured that if CDO quality began to deteriorate, it would be able to respond. In fact, the calls for the firm to post collateral in connection with the slumping values of CDOs mounted faster than AIG could cope with; the firm had forgotten that it's the things that you fail to worry about or assume aren't risks at all that prove most toxic in the long run. AIG's de facto collapse and the more than \$100 billion in bailout funds provided by the Treasury Department to keep it at least nominally afloat and prevent its collapse from fatally damaging every financial institution with which it had had dealings is one of the most clear-cut examples of what can happen when Wall Street stops thinking sensibly about risk on both an enterprise and the systemic level.

Enlightened self-interest may not be working to curb excessive risk taking. But Wall Street can't simply pass the buck, either, demanding that others perform this governance and risk management function on their behalf. For starters, it's by no means clear that regulators will do a better job; these days, some of them are likely to be the same former Wall Street risk management executives that stood by, oblivious, as the storm gathered and struck them.

Michael Alix, for instance, trumpeted the resilience of his risk management models and celebrated his risk management system's ability to ensure that Bear Stearns didn't hold too many risky securities at the same time in an interview with a BusinessWeek reporter back in 2006. Even when the markets were falling in

response to a rise in interest rates, a computer screen full of flashing red lights (signaling securities whose prices were declining) didn't alarm him, he bragged. "The machine works!"<sup>19</sup> Less than two years after Alix was named head of risk management at the firm, Bear Stearns proved definitively that the machine didn't work: it hadn't anticipated all the problems that Bear would face or the extreme market conditions.

In one of the irony-rich moments of the Wall Street crisis, Michael Alix himself went on to be named vice president of the New York Federal Reserve's Bank Supervision Group in October 2008, at the heart of the crisis. The appointment raised eyebrows and prompted some scathing comments across Wall Street, where Bear's former rivals were fighting to survive and figure out what to do next. But then, to many observers it was already clear that, far from helping Wall Street to rein in its worst instincts, regulators of all kinds—from the SEC down to the rating agencies—either were unable or unwilling to act or were even more oblivious to the risks than Wall Street itself. Wall Street may have been dancing as long as the music kept playing, in Chuck Prince's words. But to many it seemed as if the central bankers and securities regulators were calling the tunes and turning up the volume.

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## CHAPTER 7

### Washington Versus Wall Street

The story of James Gilleran and his chain saw has become one of the most infamous in the growing annals of regulatory mismanagement of Wall Street. It dates back to the early summer of 2003, long before anyone on the Street realized that there was anything alarming going on in the real estate market, much less in the business of turning subprime mortgages into triple-A-rated packages of securities. Banking regulators were gathering to proclaim their support for the Bush administration's decision to reduce the regulatory burden that made it harder for the institutions they supervised to extend as many loans as they wanted. Gilleran, who had been named to head the Office of Thrift Supervision (OTS) in 2001, knew a great photo op when he saw it. At the press conference, he was one of four banking regulators to pose for dramatic effect behind a stack of paper representing regulations governing the lending business, all wrapped up in red tape. The other three regulators brought garden shears to demonstrate their willingness to attack the problem. In the photograph, Gilleran sported the biggest grin and the biggest weapon: a chain saw.

But then, James Gilleran had a lot of motivation to make his corner of the regulatory jungle happy by cutting red tape: the prospect of millions of dollars a year in fees from institutions that elected to operate a savings and loan institution, or thrift, as these entities are known. Just as the investment banks had every incentive in the world to maintain the lowest possible amounts of capital on their books, so many regulators—especially smaller, newer, and less well-known entities such as the OTS—had a built-in reason to lower their regulatory standards and overlook risky

behavior on the part of their regulatees in an effort to woo and retain “clients.” Anyone familiar with the basic rules of organizational behavior could have predicted this would happen. OTS’s budget depended on the number of institutions it regulated. The more institutions it could attract under its regulatory umbrella, the better it would fare, organizationally speaking. On the other hand, if it adopted a regulatory stance that its “customers” viewed as unduly harsh, a number of thrifts might suddenly decide that they were really commercial banks at heart and thus subject themselves instead to the oversight of the Office of the Comptroller of Currency (OCC) and the Federal Reserve.

This was exactly the kind of development that the FDIC’s Sheila Bair had feared—that lax regulation and a less-than-rigorous approach to risk management would cause the lowest common denominator to triumph. Gilleran kept slashing away at both regulations and his own ability to enforce whatever ones remained on the books, in hopes of wooing more “clients.” Even as the mortgage lending business—a big part of the savings and loan industry—swung into high gear, Gilleran’s chain saw whirred into action: the OTS honcho cut the size of his staff by 25 percent.

OTS-regulated institutions became the biggest providers of the mortgages that would end up contributing most to the subprime meltdown, such as option ARMs (adjustable-rate mortgages), but complaints about predatory lending didn’t seem to register on Gilleran’s radar. As is now well known, it was during Gilleran’s tenure that the worst of the flawed mortgage products made their debut; complex loans that borrowers didn’t understand committed them to larger mortgage payments than they would be able to make. Only reluctantly did OTS later sign an OCC-orchestrated pact to halt the practice.

John Reich, who took over the helm of OTS from Gilleran in 2005, showed nearly as much zeal as his predecessor had done in the quest to make the organization the regulator of choice for America’s financial institutions. His publicly voiced concern about the risk that overregulation would penalize both lenders and borrowers and keep Americans from the dream of owning their



own home must have been music to the ears of Angelo Mozilo, CEO of Countrywide Financial.<sup>1</sup> By 2005, Mozilo was a bit fed up with having to account for all his actions to the OCC. The latter, as the Washington Post later reported, didn't want Countrywide's senior officers deciding which appraisers should be chosen to calculate the value of the properties against whose value Countrywide was lending money and structuring mortgages. Logically enough, the OCC feared that that presented a conflict of interest: appraisers might come back with inflated valuations that would allow Countrywide to write more loans and pocket more fees from selling them (and the risk they entailed) on to investment banks and commercial banks to be repackaged into CDOs. In

2006, Mozilo decided to leave the pesky OCC behind and to become a thrift, subject to the more benign regulation of the OTS. Its new regulator had, Countrywide executives later said, promised to take a more "helpful" view of the appraisal selection process.<sup>2</sup> It proved to be a classic example of what became known as regulatory arbitrage.

Indeed, it wasn't a coincidence that OTS ended up as the regulator of choice of many of the financial institutions that took on the greatest risks in subprime lending and would later pay the ultimate price for their risk management failures and the regulatory shortsightedness of Gilleran and Reich. For years, the OTS's single most important client was Washington Mutual (WaMu), the feisty thrift that had built up a nationwide banking network and was writing mortgage loans as fast as it could. The OTS certainly didn't want Washington Mutual to leave its regulatory embrace. Perhaps that was why its regulators allowed the institution to slash the amount of capital it allocated against possible future loan losses more and more with each year that passed, even when it became clear that the risks associated with the real estate business and mortgage lending were rising. By the summer of 2005, loan loss reserves at WaMu were a mere \$48 for every \$10,000 in mortgage and personal loans, about 25 percent below the already low average level for savings and loan institutions regulated by OTS.<sup>3</sup> Not surprisingly, in what would prove to be their final fiscal year as

independent institutions, fees paid by Washington Mutual and Countrywide together accounted for nearly a fifth of the OTS budget.

One of the other institutions of which the OTS ended up as a major regulator was AIG, the giant insurance company that would become one of the biggest casualties of the Wall Street mayhem. As an insurance company, AIG was regulated by state agencies rather than federal banking or securities regulators. But it owned a savings and loan institution, and that meant the OTS received all the financial information about the company's operations. The OTS had warned AIG's board that its risk management procedures were full of holes. Nonetheless, when Federal Reserve officials put in a series of emergency phone calls on the critical weekend in September that led to the Lehman Brothers bankruptcy and the sale of Merrill Lynch, their OTS counterparts sounded downright bewildered to hear from them.

The OTS was unaware of the fact that within the next two weeks AIG would face a demand for nearly \$40 billion in cash from its counterparties to offset the declining value of the securities it had posted as collateral. The losses were in AIG's financial products division, which wasn't regulated by the OTS; still, given the magnitude of the obligation, they would certainly wreak havoc on the company's insurance and thrift operations. That would be even more true if, as seemed likely, AIG had to file for bankruptcy as a result of the losses. (Such a filing was averted only at the last moment by one of the largest direct infusions of government cash of the entire crisis.) The OTS couldn't even begin to help its fellow regulators unravel the mess; the Fed decided instead to summon AIG's CEO, Robert Willumstad, to help it understand the magnitude of the problem.<sup>4</sup>

The OTS approach to regulation ended up as the focus of an audit report by the Office of the Inspector General at the Treasury Department. The latter concluded that OTS-supervised thrifts were able to file misleading statements about their financial position, in particular the amount of capital they held on their books. While IndvMac—which collapsed in July 2008—was responsible for its

own fate, the report says, the OTS had an opportunity to rein in the institution's hyperaggressive lending as early as 2005, when cash flow problems first surfaced.

The report is a review of several occasions on which the OTS permitted the institutions they regulated (including IndyMac) to backdate new capital infusions into the mortgage lending institutions, making their balance sheets look more stable than was really the case. In the case of IndyMac, that made the thrift look healthy only two months before the FDIC had to step in, close the doors of the suddenly insolvent institution, and reimburse its depositors. Even though at times IndyMac's thinly staffed regulator had up to forty people peering over the shoulders of the thrift's managers, the Treasury Department's forensic accountants concluded that they all either missed or didn't care about IndyMac's reckless behavior. (This included failing to verify that developers it was lending to had nailed down funding for all their projects and not overhauling its lax appraisal process for residential mortgages.) What did matter to OTS? "Growth and profitability [were] evidence that IndyMac management was capable" of managing their business and its risks, the report's authors concluded.<sup>5</sup>

Of course, other regulators weren't exempt from this.

## Playing the Blame Game

When Wall Street's misaligned compensation policies set up incentives almost guaranteed to wreak havoc on the financial system, and when its internal risk management systems and models failed to work the way everyone believed they would, the theory was that the regulators and legislators—"Washington," for short—should have been able to prevent, control, or manage the crisis. After all, the *raison d'être* of the entire regulatory system is to serve as a last-ditch line of defense, one protecting the integrity of the financial system from Wall Street's worst instincts, referred to on the Street itself as "animal spirits." It was logical that investment banks were cheerleaders for their own interests. But the financial system

needed its own team of cheerleaders—or guards—and that role is supposed to be played by the regulators. These groups, including the OTS, were established to protect the health of the system, because of the importance of the money grid to the economy and even to society as a whole. They weren't there to help individual businesses maximize their returns or to promote the philosophical concept of free enterprise.

Chuck Prince, the CEO of Citigroup until his ouster in the fall of 2007, might insist on continuing to dance to the music that he heard. But it was a regulator's job to ask whether the music that he claimed to hear was real or playing only in his head. And if exhausted musicians were collapsing one by one on the stage even as the Wall Street CEOs continued to polka, then the task of a regulator was to step in and declare that the party was over. A well-functioning regulatory system is one that is able to detect when the music is out of tune, when half the musicians can't keep up with the dancers, and when the dancers are cavorting to imaginary tunes.

On an unseasonably warm and balmy St. Patrick's Day in 2009, exactly a year after the collapse of Bear Stearns began the final chapter in the meltdown, some of Wall Street's survivors headed to the Upper East Side of Manhattan. They were bound for Rockefeller University's Caspary Auditorium, site of a sold-out Oxford-style debate about the causes of the financial crisis, sponsored by Intelligence Squared, a nonprofit organization backed by a hedge fund manager, Robert Rosenkranz. The resolution up for debate that evening: "Blame Washington more than Wall Street for the financial crisis." If it weren't for the occasional splash of green in the audience, no one would have known that the day was one that other New Yorkers were celebrating. In contrast to Intelligence Squared's other monthly debates, audience members hadn't come to this one to be entertained or even educated. They were cross, worried, and anxious; they wanted to vent. "I just know that I wasn't responsible for all this mess," said a twentysomething laid-off banker who gave his name only as Pete, his anger palpable. "We're the most hated guys out there. No one believes us. Even the president tells us we're shit. Come on! It can't be all about Wall

Street!"

Indeed it can't, economic historian Niall Ferguson reassured Pete and others like him at the beginning of the debate. Ferguson admitted that he hadn't come to praise or defend bankers. "We blame them for much of what has gone wrong," he told the audience. "It's just that we blame the politicians more." The Wall Street hometown audience erupted in laughter and cheers; declaring open season on Washington is universally popular. As for Citigroup's Prince, who claimed Wall Street had no option but to get up and dance, Ferguson pointed out slyly, "You have to ask yourselves, ladies and gentlemen, who was playing the music." Why, the historian wondered, do politicians love to point their fingers at financiers in times of trouble? "Could it just possibly be that they're trying to divert our attention away from Washington's own responsibility for the debacle?"

The possibility that the fatal flaw lies outside Wall Street itself is a comforting one to many financiers, especially as they confront the specter of heavy regulatory reforms. "Blaming Wall Street is like blaming the atmosphere for thunderstorms," exclaimed John Steele Gordon, part of Ferguson's debate team arguing in favor of the motion. Street "panics" happen periodically, he pointed out. "It's the nature of the beast." On the other hand, Washington regulators are "supposed to be the guys with the striped shirts and the whistles on the playing field. They make up the rules, and then they enforce them. And then they sometimes change the rules in order to accommodate some of their friends."<sup>6</sup>

It was an uneven contest: Ferguson and his two allies won the debate hands down, helped in equal parts by their debating skills, Ferguson's charm and Scottish accent, and the audience's determination to heap more of the blame on Washington, an attitude that reminded some observers of the age-old children's protest about being punished for a misdeed: "But, Mom/Dad, he made me do it!" Certainly, those New Yorkers seemed ready to believe that Washington made them do it: before the debate, 42 percent of attendees had voted in favor of the motion that Washington was more at fault than Wall Street. but two hours of

debate later, 60 percent agreed with the proposition. Nearly ten months later, a somewhat cooler-headed Jamie Dimon insisted that, on the contrary, the buck stopped with Wall Street. “I do not blame the regulators,” he testified before the FCIC hearings in January 2010. “The responsibility for a company’s actions rests with the company’s management.” But there were still many to disagree with Dimon, to question whether Dimon believed his own argument, and to argue that Washington had actively urged Wall Street to pursue risky strategies, or at least served as an enabler of sorts.

Awarding the lion’s share of the blame for the financial system’s near meltdown to Washington rather than Wall Street is tempting, but it’s also overly simplistic. True, Wall Street’s regulators didn’t try very hard to rein in the festivities at the height of the boom; some, such as Gilleran and the OTS, seem to have egged their constituents on to greater follies. But by the time the crisis was taking shape, the ability of regulators to fulfill their traditional role of protecting Wall Street’s core functions—the smooth transfer of capital from those who had it to those entities that needed it—had been steadily eroded by several decades’ worth of policy decisions. These culminated in a dysfunctional regulatory system that was rarely able to move beyond the nuts and bolts of each individual decision—separating research and investment banking divisions, moving to decimalization in trading systems, banning an “uptick” rule, promoting home ownership, fighting the prospect of an economic slump by keeping interest rates at rock-bottom levels for years, allowing parts of the financial system to shop for their own regulator—to focus on the big picture.

And when the big picture was mentioned, that picture wasn’t one of the maintenance of a financial utility. No one discussed whether those initiatives contributed to the long-term health and stability of the financial system. Regulating other utilities is relatively straightforward, in both theory and practice, in part because there’s a general acceptance among all interested parties that there is a broad public interest in having a reliable source of gas or electricity and an ample supply of clean water. (That’s particularly true

because most regulatory agencies are established to police the behavior of monopolies or oligopolies providing services that society deems to be essential.) Even the managers of power plants and water companies that might have an interest in keeping costs low and maximizing profits know that they will personally suffer alongside everyone else in the community if those financial goals result in the power grid collapsing or the water becoming contaminated.

When it comes to Wall Street, however, the picture is far blurrier, and not just because no single Wall Street institution can lay claim to monopoly or oligopoly status. Wall Street isn't a business like any other; it can't be compared to retailers such as Walmart or consumer goods manufacturers such as Colgate-Palmolive. Even critics of excessive regulation will admit, especially after the events of the last few years, that all members of society have a vested interest in the survival of the financial system that can't be compared to even those giant corporate entities. (After all, we can always go shopping at Target.) Anyone who quibbles with that may want to discuss their views with the citizens of Iceland, who saw their own money grid almost completely disappear; some Icelanders returned to fishing to keep food on the table as the country's three McDonald's franchises closed their doors—good for the country's nutrition, doubtless, but a blow to its economy and psychology. It's deceptively easy for anyone to decide what makes for a good regulatory outcome in other utilities (clean water flows through the water pipes; electrical power is delivered when needed and in the quantity required to meet the demands of even the hottest summer days), and a failure is equally easy to spot (a blackout, for instance).

But on Wall Street, what makes for a good regulatory outcome is far more nebulous. Even the events of 2008 are subject to debate. Did they signify the failure of the regulatory function, because several major institutions collapsed, others required hundreds of billions of dollars of taxpayer capital to survive, and the entire money grid came within a fraction of an inch of the brink of disaster? Or was it a success, because legislators and regulators were

able to pull together in a remarkable last-ditch effort in the worst days of the autumn of 2008 and rescue the most systemically important institutions, those deemed too big to fail? The definition of a good regulatory outcome is equally subjective. Ask an investment banking shareholder, and he will likely reply that a hands-off approach by regulators that allows the companies whose stock they own to capture a bigger market share and maximize their profits is the most desirable system. Corporations want a system that provides them with low-cost access to capital, even when the transactions that they seek to complete are ones that are uneconomic for Wall Street to undertake. Money managers and individual investors want a system that protects them from Ponzi schemes and other abuses.

The very disparate views of the goals of financial market regulation were part of the problem. Another major reason that the financial system would be left unguarded and unprotected (in the eyes of some, at least) at a crucial juncture was the fact that to many on Wall Street, the laudable goal of protecting the money grid required tolerating the intolerable: government intervention. By the dawn of the twenty-first century, the kind of deregulatory fervor that James Gilleran displayed in taking a chain saw to symbolic and actual red tape wasn't an anomaly but part and parcel of the political and regulatory ethos in the United States.

For government intervention in the shape of regulation to be acceptable, the proposed rules must be able to clearly demonstrate their value in advance, this camp argued, a burden of proof that was hard to meet. The FDIC's Sheila Bair admitted that when banking supervisors had to rely on judgment, the absence of clear reason for concern—such as losses from the risky activities—made it difficult to intervene. “Without hard evidence that the activities were creating unwarranted risk,” trying to clamp down on risk taking would have been a provocative move, Bair suggests. (It would also have ignited a firestorm of controversy: Why were regulators seeking to meddle in a profitable business run by talented professionals?) “In retrospect, it is clear that supervisors were not sufficiently forward-looking in identifying and correcting



imprudent risks,” Bair testified at the FCIC hearings. “Current profitability alone is not a sufficient measure of safety and soundness.” Indeed, profits—particularly the kind of record profits posted in the six straight years between 2001 and 2006—can be a red flag alerting a vigilant regulator to risky business. Only briefly, in the aftermath of the chaos made worse by the simultaneous failure of incentives, risk management, and regulation, was it philosophically acceptable to talk about preemptive regulation—protective regulation—once more.

Washington and Wall Street have coexisted uneasily for as long as there has been an independent national government and a national financial system. As long as financial markets have existed, what happens within them has consequences not only for the financiers but also for citizens who are far removed from Wall Street and who would be hard-pressed to distinguish a stock from a bond when asked to do so, much less define a derivative. The current crisis has wrecked the national economy of Iceland and caused havoc in German towns; everyone from marketing executives at consumer product firms to managers of geriatric nursing homes has had to rewrite frantically budgets to cope with the financing crisis that ensued. New college graduates, retirees, and entrepreneurs have seen their dreams shattered. Some economists calculate that the cost of the current crisis may reach as much as \$4 trillion. That is a high price to pay for the de facto failure of governance, risk management, and regulation. American citizens, regardless of their level of wealth or personal opinions on the merits of regulation or government intervention, will end up paying for the government bailouts of Wall Street institutions and regulatory shortcomings in the form of higher taxes or lower government spending on other projects for years to come.

### Deregulatory Fervor and Unintended Consequences

It shouldn't have been this bad. In the wake of the 1929 market crash and the nationwide depression that followed a wave of bank

failures in the 1930s, politicians recognized the impossibility of controlling the fear-and-greed cycle that has governed financial dealings for centuries. People, left to their own devices, will fuel future bubbles, they knew, whether the focus of runaway speculation was tulip bulbs or railroad stocks. But, they reasoned, the federal government could put in place a set of institutions whose function was to take a pin to those bubbles (or even find a way to let the air gently out of them) before they could become so big that when they burst they would wreak havoc on the entire system.

In the 1930s, a battered and disgraced Wall Street had little ability to object to the array of reforms and regulatory measures introduced by Washington. When Congress passed the 1933 Glass-Steagall Act mandating the separation of commercial banks (entities taking deposits from individuals and businesses) from investment banks (those banks engaged in the riskier business of trading or raising capital via the debt and equity markets), even J. P. Morgan's heirs bowed to the inevitable. In September 1935, a clutch of J.P. Morgan office boys pushed eighteen heavy wooden rolltop desks out the doors of 23 Wall Street, the building at the corner of Wall and Broad that the financier had occupied from the day it was built until his death in 1913. They shoved them up a slight incline, past the New York Stock Exchange on their left, to the doors of a newer building at the corner of Wall Street and Broadway. A new investment bank, Morgan Stanley, had been born, in response to Washington's demand for risk reduction.

But Wall Street was never comfortable with the extent to which regulators restricted its collective ability to seek out new sources of business and profits. Every time a financier was blocked from doing something new and creative, he chafed at what felt like senseless and burdensome regulations. With the passage of decades and the disappearance of those who could all too vividly recall the horrors of the crash and the Depression, even rules like Glass-Steagall seemed increasingly unnecessary. With the transformation of Wall Street's business during the 1970s, and in particular as increasingly powerful competitors arose in Europe and Japan. Wall Street's

leaders began viewing regulation as not only something that blocked their firms from earning as much as they could, but something that would lead, inevitably, to the loss of market share to overseas rivals and the erosion of Wall Street's unquestioned dominance of global markets. Banks such as Deutsche Bank and Credit Suisse didn't have to worry about Glass-Steagall, they fretted. They had giant balance sheets, the likes of which Morgan Stanley, Goldman Sachs, and Salomon Brothers could only dream about. Happily for Wall Street, this growing disgruntlement on its part coincided with the rise to power of a group of politicians with a distaste for regulation that, if anything, exceeded that of the financiers.

Ronald Reagan's vision of America harkened back to a golden age of sorts, around the dawn of the twentieth century, when American lives were lived around the town square and the country store, where the Fourth of July was celebrated sedately and joyously with picnics of fried chicken and blueberry pie followed by fireworks after dusk. Free enterprise was part of being a free man or woman, in this worldview, and Reagan had an apparently endless series of witty and damning *bons mots* about the evils of government intervention. "The nine most terrifying words in the English language are, 'I'm from the government and I'm here to help,' " Reagan quipped on one occasion. As for the government's view of the economy, that was easy to summarize: "If it moves, tax it. If it keeps moving, regulate it. And if it stops moving, subsidize it." Reagan's view of regulators themselves was equally jaundiced. "The best minds are not in government," he declared. "If any were, business would hire them away."<sup>7</sup> Reagan's philosophy resonated deeply on Wall Street. Freedom, the new president proclaimed, was a core American value. Didn't that include the freedom from regulation for those on Wall Street?

Free market fundamentalists, as George Soros dubbed them, rose to power in the Reagan era but weren't confined to the Republican Party. When the Democrats took control of the White House and (briefly) Congress in 1992, policy toward Wall Street continued to revolve around deregulation, with few interruptions. (Robert Rubin.

who later prodded Citigroup's bankers to take more and more risk at the height of the bubble, was a Goldman Sachs alumnus appointed by President Clinton to run the Treasury Department; not surprisingly, he advocated a hands-off approach to regulating Wall Street.) The free market fundamentalists argued that the managers of Wall Street's financial institutions were the people best suited to understand what was going on and to identify the real risks. And they had incentives to be prudent: if they weren't, investors and analysts would hold them to account. Missing from that analysis were the facts that Wall Street leaders also had an incentive to downplay the risks they identified, that their shareholders had a tendency to view a half-empty cup as two-thirds full, and that analysts were justifiably wary of the career risk associated with slapping a buy rating on any stock, much less on a Wall Street power player.

Increasingly, policy makers and legislators seemed to overlook the fact that an underregulated Wall Street could create havoc that wasn't confined to the financial system itself but stretched well into the broader economy and society. In other words, it wasn't just their own fate for which Wall Street firms were responsible. In the same way that a pharmaceutical company that didn't test its drugs properly (and didn't have an effective FDA overseeing those tests) would not only blow itself up but cause active harm to the general public, so the collapse of a Wall Street firm could have far broader consequences.

History spelled out the message quite clearly. The nineteenth century was punctuated by a regular series of panics on Wall Street: one in 1819, another in 1837, and still another in 1857. The Panic of 1873 (caused by a toxic combination of events that ranged from the railroad bubble to the effort by financier Jay Cooke to corner the gold market and his subsequent bankruptcy) led to a six-year-long national depression; the conflict between labor and management that followed it lasted well into the twentieth century and can be traced back to the decision of President Rutherford Hayes to use troops to break a strike by railroad workers. (Scores were killed.)

The 1873 crash caused bankruptcies across the United States and put an end to post-Civil War Reconstruction in the South; there was no money to continue political and economic reforms, meaning that African Americans in many former slave states were forced to wait another century to exercise their right to vote. The 1873 panic was followed by a boom revolving around more railroad speculation—which in turn produced yet another panic in 1893. That financial and economic crisis caused mayhem in eastern and midwestern manufacturing centers and sent displaced workers drifting westward to populate western cities from Portland to San Diego. One nineteenth-century panic caused the collapse of more than a dozen railroads; a later one was responsible for the demise of some six hundred banking institutions. In all cases, leverage was one of the culprits.<sup>8</sup>

Then came the Panic of 1907, an event that offers some uncanny parallels to the events of a century later: the complete disappearance of liquidity from financial markets, the collapse of one of Wall Street's largest financial institutions (the Knickerbocker Trust Company), the phenomenon of contagion as the crisis rippled through the system from one financial institution to the next, and the unwillingness of New York banks to extend even short-term credit.<sup>9</sup> Only the intervention of J. P. Morgan himself, playing the role of the then nonexistent Federal Reserve, saved the day. Summoning Wall Street's best and brightest to his Wall Street offices, he commanded them to cough up \$25 million in the next ten minutes to keep the stock exchange open or watch the financial system itself collapse. Within half an hour of the arrival of the first banker at Morgan's offices, \$23.6 million had reached the stock exchange; liquidity had been restored.

Morgan had saved the day, but his actions had created two separate sources of concern that led directly to the creation of a regulatory institution that could fill the role that Morgan had: the Federal Reserve. There were widespread fears that Morgan's power—so dramatically revealed—could be misused. Those who didn't worry about Morgan himself were concerned that after his death (which came in March 1913, months before the Fed's creation)

there would be no other single individual with the same blend of skill, judgment, power, and force of character to perform the same function in the event of future panics. A regulatory agency was the solution that addressed both sets of concerns.

The chain of events that began in the summer of 2007 reminded even die-hard free market fundamentalists that in the midst of financial panics, regulation and regulators had their uses. Henry “Hank” Paulson, the former CEO of Goldman Sachs, had pleaded for years that Wall Street be allowed to regulate itself. Appointed Treasury secretary in 2006, he remained a staunch advocate of free financial markets. “An open, competitive and liberalized financial market can effectively allocate scarce resources in a manner that promotes stability and prosperity far better than governmental intervention,” Paulson told an audience at the Shanghai Futures Exchange in the spring of 2007, a speech that was seen by global economists as part of an ongoing campaign by the United States and U.S.-based financial institutions to persuade China to follow their lead at a faster pace.<sup>10</sup> (China had already introduced new products such as foreign-exchange derivatives contracts and expanded its bond market, but it was slower in developing its asset-backed securities market and still imposed constraints on the local activities of U.S. financial institutions.)

Within eighteen months, Paulson was down on one knee in front of Nancy Pelosi in the Oval Office, begging for her help to get Congress to pass an unprecedented bailout package, one that would involve massive government intervention, to save the financial system from disaster. Meanwhile, the effort to preempt global competition had begun to look like an academic exercise. For now, at least, giant financial institutions had to worry more about surviving than about losing market share. And in China, local regulators were learning a lesson that their U.S. counterparts might have absorbed in 1873, 1893, 1907, or 1929. “Financial innovation is a double-edged sword,” Fan Wenzhong, deputy head of research at the China Banking Regulatory Commission, said at a September 2008 conference in Beijing. “We can’t just concentrate on product innovation and overlook the need to build the financial system.”<sup>11</sup>

But by the time Paulson learned that regulators and legislators (however flawed the individuals themselves might be) might have their virtues when it came to serving as a counterweight to the worst excesses of Wall Street's "animal spirits," it was late in the day. The regulatory framework had been established early in the twentieth century as a way to prevent another financial markets panic. But over the last twenty-five years, either the power of regulators to act had been curtailed or those individuals installed at the helm of regulatory agencies were unwilling to act.

Even if the new breed of regulators installed by the deregulatory zealots could bring themselves to admit that something more than just another normal market hiccup was taking shape, their hands-off philosophy left them powerless and paralyzed. Just as bankers used magical thinking to reassure themselves that the heavy winds and choppy seas they saw weren't a category 5 hurricane taking shape, regulators tried to convince themselves that the free market fundamentalists had it right and another panic wasn't on the way—it couldn't be, because an article of their faith was that market discipline would prevent any financial institution from taking silly or ill-considered risks. (Sheila Bair of the FDIC might note after the storm that a belief in self-regulating, self-correcting market was a fallacy; until that had become obvious, however, that view would have been deemed heretical by any in a position to act on it and beef up regulation.) By the time the storm made landfall, it was too late to act.

In just one example, the formal repeal of the Glass-Steagall Act in 1999 (after years of steady erosion) had helped create banking institutions that the Fed and the Treasury Department now realized were too big to be allowed to fail. Bailouts of AIG and the injection of billions of dollars of new capital to maintain institutions that might otherwise have collapsed, such as Citigroup, are part of the price that American taxpayers and businesses will have to pay for failing to protect the money grid. But the consequences of the near collapse of the money grid are liable to be far more dramatic and long-lasting than those of the actual collapse of the electricity grid in the northeastern United States and parts of Canada in the

summer of 2003. The latter event, a daylong blackout, was unpleasant and caused chaos as well as millions of dollars of losses in spoiled food and lost business. But restoring the power grid to full effectiveness is a matter of willpower, capital, and equipment. Restoring the financial grid to health will take longer and cost trillions of dollars. And when it's done, Wall Street, and our relationship with it, will never be the same again.

## Unintended Consequences

Perhaps someone should have warned these avid deregulators of the law of unintended consequences. But even in cases where a specific deregulatory measure didn't have unintended consequences (on which more later), the cumulative effect of the deregulatory ethos was such that over time, the idea that it might be appropriate or acceptable to regulate Wall Street became less and less politically acceptable. "If government appoints as regulators those who do not believe in regulation, one is not likely to get strong enforcement," economist Joseph Stiglitz pointed out in his testimony to Congress. Ultimately, those who did believe in regulation and who managed to survive within that kind of system found it difficult to actually regulate. Meanwhile, Congress—even before the financial crisis hit and the Madoff scandal dominated newspaper headlines—had concluded that regulators too often made a hash of their job even when they chose to do it.

It's hard to think of an excuse for the SEC's failure to figure out what Bernard Madoff was up to in his massive Ponzi scheme, especially since at least one concerned individual, financial analyst Harry Markopolos, presented an analysis of the whole scheme to them on a silver platter years before Madoff himself confessed. But perhaps there's an explanation for the agency's apparent inability to act, one that dates back to the events of 2005 that culminated in the SEC's decision to fire Gary Aguirre.

Aguirre, a staff lawyer, had spent months investigating a series of mysterious trades by hedge fund Pequot Capital Management, and



believed that Pequot may have been tipped off to an upcoming merger by John Mack, then CEO of Credit Suisse and a friend of Pequot's founder, Art Samberg. (All the targets of Aguirre's investigation denied any wrongdoing and at first, the SEC dropped the matter without bringing any charges, although a second inquiry, begun in 2008, contributed to Samberg's decision to close his firm the next spring.)

Aguirre wanted to subpoena Mack, then in the running for the CEO's job at Morgan Stanley, to question him about his relationship with Pequot and obtain records of any conversations related to the merger in question. His superiors at the SEC told him to back off, pointing out that Mack had "juice" with top regulators; only months later, days before the end of his probationary period, the SEC fired Aguirre. A Senate investigation later concluded that both Pequot's trades and John Mack's actions were worthy of further investigation, as Aguirre had declared, and that there certainly was a "sufficient basis" for asking Mack some pointed questions under oath. The senators lambasted the SEC for its lack of backbone and particularly for paying "undue deference" to Mack, because of his role as a captain of Wall Street. Instead of seizing the opportunity to investigate the links between Wall Street and the hedge fund industry, the later report concluded, the SEC backed down. And, the senators added, when Aguirre tried to alert the SEC's top brass to the issue, the agency's internal investigators "failed to conduct a serious and credible investigation" of Aguirre's claims.

John Mack would ultimately testify—but the timing was unusual; he would discuss the trades only a few days after the statute of limitations for any potential offenses had lapsed. True, Pequot agreed to pay \$28 million to settle charges of insider trading in the spring of 2010 (without admitting or denying any wrongdoing), but that occurred only after the financial crisis had pushed the SEC (under new leadership) to be more proactive. Only weeks after Pequot settled with the SEC, the SEC settled with Aguirre: the latter's wrongful termination lawsuit against the agency was ended with the payment to him of \$775,000, representing his full salary since his termination as well as legal fees. In the immediate

aftermath of Aguirre's fruitless efforts to depose John Mack in 2005, followed by his firing only months later, it was clear to anyone still in doubt that trying to rein in Wall Street was likely to be more trouble than it was worth. If trying to put John Mack in the hot seat got Aguirre into hot water, why would any regulator trying to keep his job (or get a new, better-paying one on Wall Street later) pursue allegations about the equally powerful former chairman of the Nasdaq Stock Market, Bernard Madoff? It seemed tantamount to committing professional suicide.

That's the kind of message that the hands-off approach to regulation was sending, explicitly or implicitly, for much of the two decades leading up to the crisis. Regulators may have helped resolve the Long-Term Capital Management debacle, but they didn't help to prevent it. Analysts and short sellers were the first to publicly discuss their concerns about Enron's opaque accounting; a detailed SEC investigation followed, but as short seller Jim Chanos of Kynikos Associates said at the time, "It just gave us all the gory details; it wasn't as if they were catching anything or discovering anything that anyone who had looked at their financial statements didn't already suspect was there. It wasn't regulating and preventing a thing; it was coloring in the picture we already knew."<sup>12</sup> Regulators, Chanos points out, were bolting the barn door long after the horse had fled. Speaking out again in 2009, Chanos argued at the Intelligence Squared debate that "there has not been one major financial fraud in the past 25 years uncovered by the government, outside auditors, or outside counsel. It's always been journalists, whistle-blowers, or short-sellers, or some combination thereof."<sup>13</sup>

Ultimately, the combination of regulation and deregulation created a particularly toxic brand of chaos. In the aftermath of the near collapse of AIG, Congress and other onlookers went hunting for the regulator that should have been scrutinizing the doings at AIG's financial products division. (That London-based unit was the part of the insurance company earning the big fees selling credit default swaps and failing to maintain any capital against potential losses, bringing AIG and the financial system itself so close to collapse that by mid-2009 the government had forked over some

\$170 billion to save AIG alone.) They found dozens of potential suspects; in every country where AIG did business—virtually every developed nation and many developing ones as well—there was a regulator responsible for overseeing part of their business. Then, on March 5, 2009, Scott Polakoff, the interim director of the Office of Thrift Supervision and heir to the chain-saw-wielding Gilleran, somewhat sheepishly asked to interrupt a Senate hearing into AIG's near demise to 'fess up. "It's time for OTS to raise their hand and say they have some responsibility and accountability here," Polakoff admitted. "We were deemed an acceptable regulator for both U.S. and domestic and international operations." Florida senator Mel Martinez seemed taken aback. "You [are] the regulator we've been looking for," he marveled. "I think we had assumed there wasn't one." "I'm the one," Polakoff responded. Anyone who had watched as one OTS-regulated institution after another collapsed as a result of poor risk controls might have been forgiven for whispering to himself, "I might have known."

## Perverse Incentives

Without strong regulatory agencies in place—entities with the willingness to regulate prudently and the ability and resources to follow through and enforce their regulations—there was little incentive for financial institutions such as Washington Mutual, Countrywide, or AIG to maintain prudent provisions against future losses. The proverbial carrot—the lure of higher earnings—pushed them in the opposite direction, and there seemed now to be no effective stick in the shape of curmudgeonly regulators determined to make them do the right thing.

A 2004 report by the Office of Federal Housing Enterprise Oversight (OFHEO) disclosed significant accounting irregularities at Fannie Mae and Freddie Mac that couldn't fail to raise questions about the judgment of the CEOs of both agencies. Nonetheless, Franklin Raines, CEO of Fannie Mae, responded to a question from a congressman about whether the agency's decision to set aside a

mere 3 percent of its assets against possible future losses—a razor-thin cushion by most standards—by declaring that he felt it was actually too large a sum. The single- and multifamily home mortgages that Fannie Mae owned, Raines testified, were “so riskless that capital for holding them should be under 2 percent.” While Raines didn’t get any encouragement to slash those reserves further, his comments weren’t met with howls of protest from anyone, from regulators to members of Congress. In fact, when Armando Falcon of the OFHEO testified about the accounting irregularities, Barney Frank of the House Financial Services Committee responded by saying, “I don’t see anything in your report that raises safeness and soundness problems.”<sup>14</sup>

Alan Greenspan, who had led the Federal Reserve for nearly two decades by this time, continued to believe that “enlightened self-interest” would cause Wall Street leaders such as Raines to act prudently. He cherished the illusion that their firms could regulate themselves, in the face of evidence showing him that enthusiastic risk taking was more integral to Wall Street than sober and attentive risk management. Sophisticated risk models and the even more elaborate derivative products from which Wall Street was earning more in profits (at higher profit margins) with every year that passed would do what they were designed to do, Greenspan was convinced. The only requirement was that the “enlightened self-interest of owners and managers of financial institutions [should lead] them to maintain a sufficient buffer against insolvency by actively monitoring their firms’ capital and risk positions,” he wrote a year after the collapse of Bear Stearns.<sup>15</sup>

Greenspan admits that he made a mistake. But rather than blame regulators for their failure to oversee what was going on, or the institutions for being imprudent, Greenspan directed his fire at the hypercomplex derivative products, which were “too much for even the most sophisticated market players to handle prudently.” In other words, he said, there is nothing that any regulator or Wall Street rocket scientist could have done.

Greenspan may have been right, but the truth was that no one tried. Regulators didn’t attempt to keep up with the pace of

innovation on Wall Street, the growth in its use of and reliance on leverage, and its growth in size and reach. Even had they wanted to rein in what was going on, their efforts would have been doomed to failure.

There's a good reason why Greenspan is now widely viewed (particularly on Main Street) as one of the chief culprits responsible for the financial crisis. As is the case with most regulators, his errors were ones of omission rather than commission, but they were big ones. If anyone had the ability to realize clearly that Wall Street was motivated more by greed and the fear of losing a fraction of a percentage point of market share to a rival rather than by the fear of being seen to be less than responsible or honorable custodians and users of the financial grid, it was Greenspan. It was he who clung to the conviction that a prolonged period of ultralow interest rates wouldn't harm the financial system, who believed dogmatically in the probity of the financial institutions and their ability to manage their business, who kept the punch flowing long after the partygoers were intoxicated and reeling around half senseless.

Greenspan, dubbed "the Maestro," was perhaps the single individual who had the gravitas and the power to stand up to Congress, the president, and Wall Street CEOs and warn them they were being reckless or shortsighted. Had he chosen to, he could have insisted that legislators transform the OTS into a powerful entity with the will and the ability to regulate the IndyMacs and AIGs. He could have sounded the alarm about inadequate reserves and risky derivatives, as a handful of respected financiers such as George Soros and Warren Buffett were already doing. (Buffett memorably and presciently described derivatives as "weapons of mass financial destruction.") Instead, Greenspan proclaimed in 2004, as the bubble was taking shape, "individual financial institutions [have] become less vulnerable to shocks," while the financial system as a whole was downright robust. And as for those derivatives, the ones that by 2009 he argued had been too much to handle? In 2003 he contended that they were an excellent device for transferring risk from those who couldn't handle it to those who

could. He suggested to the Senate Banking Committee that regulating them would be a mistake.

The derivatives market is perhaps the single largest example of deregulatory zeal on Wall Street. When the regulatory framework that still governed Wall Street in 2007 was created in the 1930s, no one dreamed that these products would even exist. (Getting a 1940s-era policy maker to plan for derivatives was about as rational as suggesting to a Victorian policeman that he send off blood traces found at the scene of a crime to be tested for DNA.) Like all financial innovations, derivatives were a compelling addition to the tools at Wall Street's disposal. A corporate treasurer could use interest rate swaps to manage his company's exposure to interest rates; currency-related derivatives enabled companies that earned a lot of income outside the United States to manage the risk associated with unexpected moves in the value of the dollar. Used that way, derivatives reduced risk for Wall Street's clients.

But these high-octane instruments could also be used as outright bets on the direction or movement of markets, creating more risk for their users. It all came down to how they were being employed. And during the 1980s and 1990s, as derivatives became far more widely used (data from the International Swaps and Derivatives Association, ISDA, showed a jump from about \$850 billion in 1985 to \$8.5 trillion by 1993), concern that regulators didn't have a clue about how they were being used began to mount. ISDA's membership—which included most of the big Wall Street institutions along with other large and mid-sized banks—successfully fought off a first effort by the Commodity Futures Trading Commission to bring derivatives under its oversight. By the mid-1990s, when market events pushed regulation back up to the top of the agenda once more, ISDA had helped the industry prepare to fight back. “Market discipline is the best form of discipline there is,” Mark Brickell, then head of ISDA, was guaranteed to proclaim, in one way or another, at every ISDA-sponsored event.

But some of these highly structured products now were causing losses on Main Street and attracting the attention of both legislators and regulators. Procter & Gamble and Gibson Greetings were hit

with losses related to derivative-like instruments on their books that their treasurers insisted didn't perform as Wall Street had promised. (It remains up for debate whether the treasurers really didn't understand what they were being sold, or simply claimed not to when their bets later turned bad.) Meanwhile, Orange County had lost some \$2 billion on leveraged bond derivatives called inverse floaters and in 1994 became the largest U.S. municipality to declare bankruptcy as a result. Its treasurer had bought the derivatives from Merrill Lynch after first trying to deal with J.P. Morgan. "Under no circumstances should we deal with this client!" concluded J.P. Morgan banker Bill Demchak, returning to New York after a meeting with the treasurer, Robert Citron, having realized just how clueless the bank's potential client was about what derivatives were, what they could and couldn't do, and the risks that were involved.<sup>16</sup>

Even before the losses, alarm bells were ringing. Richard Breeden, once known as an avid deregulator during his days at the helm of the SEC, warned corporate directors about the potential risks of derivatives in a Wall Street Journal editorial. In May 1994, the General Accounting Office (GAO) presented a 195-page report summarizing two years of study of the burgeoning derivatives market to Congress. The GAO—better known as a supporter of free markets than of regulation—concluded that there were "significant gaps and weaknesses" in the way that derivatives were regulated and urged Congress to appoint a federal agency to oversee "the safety and soundness of all major OTC derivatives dealers." A fierce fight followed in Congress and within the broader business community, with many regulators lining up alongside Wall Street, ISDA, and Greenspan. A handful of congressional leaders took up the regulatory battle. When in a hearing on proposed derivatives regulation ISDA's Brickell blasted Representative Jim Leach for treating derivatives differently from other securities, Leach retorted that they were different. They "are new, they are off balance sheet, they are a totally different dimension."<sup>17</sup>

Ultimately the free market fundamentalists prevailed, partly because some former critics saw the light. Gerald Corrigan, during

his days at the helm of the New York branch of the Federal Reserve—the Fed post that gives its holder the closest view of what is going on on Wall Street—had once voiced concern about the newfangled and complex securities. Upon leaving the Fed, Corrigan went to work at Goldman Sachs; soon he was named cochairman of the fledgling Derivatives Policy Group, whose goal was to convince legislators that the bankers themselves were in the best position to both understand these complex instruments and manage their risks. Wendy Gramm, a former CFTC chair (and wife of former senator Phil Gramm, coauthor of the legislation reversing the Depression-era Glass-Steagall Act; she would become infamous as a member of Enron’s audit committee), suggested that Washington should “resist the urge ... to over-regulate what we just do not understand.”<sup>18</sup> Greenspan’s confidence in free markets remained unshaken; he continued to assure Congress and the public throughout the 1990s that the market could regulate derivatives usage just as ably as any agency.

As the usage of derivatives continued to grow and spread throughout the financial system, with more and more complex iterations being devised, concern increasingly revolved around the lack of transparency in the market for these instruments. The existence of a stock exchange provides a degree of transparency that helps investors value a company’s equity; the very liquid bond market, even in the absence of an exchange, made tracking bond prices relatively straightforward. An investor might quibble over whether the valuation the market was giving to the stocks or bonds was appropriate. But the transparency of the market meant that she could figure out what that valuation was with the click of a mouse.

In contrast, derivatives—which tend to be more customized instruments—don’t trade anywhere and for decades didn’t clear through any entity that was monitored by a regulator. Anyone requesting the most basic information on the industry—such as the notional value of credit default swaps written—could obtain only informed guesstimates. Brooksley Born, head of the Commodity Futures Trading Commission (CFTC) in the late 1990s, asked Wall Street and other interested parties to comment on ways that



derivatives might be regulated in order to be sure that these increasingly ubiquitous and high-octane instruments didn't threaten the stability of the financial system before regulators were even aware of what was going on.

Within the blink of an eye, the deregulatory gang circled the wagons and began heaping scorn on Born. Even the crisis surrounding Long-Term Capital Management, whose losses were caused in part by the hedge fund's use of derivatives to magnify its bets on the bond market that later went sour, failed to save Born's initiative—or her career. Congress barred the CFTC from wielding any regulatory clout over derivatives for six months; Born resigned in 1999. (Born would be back. In 2009 she received the John F. Kennedy Library Foundation's Profile in Courage Award, presented to the public servants who have made courageous decisions of conscience without regard for the personal or professional consequences, for her efforts to bring the derivatives market under some kind of regulatory oversight. She was also named a commissioner of the FCIC, putting her in a position to shape the debate surrounding future regulation and closely question her former adversaries.) The same year, Greenspan and others (including then Treasury secretary Bob Rubin, who would later become vice chairman at Citigroup, a major player in global derivatives markets) proposed that Congress ban the CFTC from any future meddling in the derivatives universe. It wasn't either necessary or desirable for Congress or anyone else to meddle with derivatives, Greenspan declared firmly on several occasions. All that was needed for the world of derivatives to function smoothly with minimal risk was for it to remain as unfettered as possible; the bankers wouldn't let it get out of hand.

Of course, like so many analyses—the Treasury's report on the shenanigans at the OTS, the UBS shareholders' report, and a chilling SEC survey of what went wrong at Bear Stearns—this chain of events looks more dramatic and alarming when viewed with the benefit of twenty-twenty hindsight. At the time, many Wall Street regulators believed the real threat was not lax regulation but overly oppressive regulation. Creating tough new derivatives rules

wouldn't wipe out the demand for these products overnight, and it certainly wouldn't eliminate the eagerness of the global investment banks to earn fees from structuring and selling them. The impact of regulating derivatives would have been to drive the business offshore and undermine Wall Street's preeminence as a financial center. With every year that passed, this became a more likely scenario, it seemed. In the wake of economic liberalization in China, new businesses were being formed at a rapid clip; the demand for capital was at its height there, and an Asian financial institution could conceivably use success in China to establish itself as the next Citigroup or JPMorgan Chase. Then there was Europe, where the city of London was making determined efforts to compete head-to-head with Wall Street for the title of global financial capital.

As late as 2005 and 2006, those fears seemed even more intense. In the wake of the billions of dollars lost amid the accounting scandals revealed at the beginning of the decade, Congress passed the Sarbanes-Oxley Act. Sarbox, as it is familiarly (but not affectionately) known, tried to address a valid concern: the fact that corporate managers had been able to manipulate their earnings and distort the portrayal of their financial position.

But Sarbox created a financial burden for the publicly traded companies that had to comply with the new law, particularly smaller companies. While the SEC had originally estimated the cost of meeting the new audit and governance rules at around \$91,000 per firm, companies reported spending an average of \$4.36 million each in 2004 alone, the first year that the rules took effect. Those figures were reported by the Committee on Capital Markets Regulation, which also noted that while half of all IPO proceeds raised in 2000 by companies (U.S. and foreign) selling stock occurred through a transaction on a U.S. exchange, by 2006 that had shrunk to only 5 percent. (It's unclear whether the reason was actually the competitiveness of American capital markets or other factors, such as the reality that a growing number of IPO candidates were non-U.S. companies that preferred to go public on an exchange based in their own country.) Meanwhile, the independent

group noted that private equity funds were growing rapidly, a clear signal that regulation and the costs of complying with regulation were keeping both issuers and investors out of the public markets—at least in the United States.<sup>19</sup> In London, however, the London Stock Exchange's Alternative Investment Market (AIM) was increasingly appealing even to U.S. companies that might have been expected to go public on Nasdaq; it held regular marketing seminars in New York and San Francisco to which were invited investment bankers and promising young private companies.

The London exchange bragged about AIM's "pragmatic and flexible approach to regulation" (which involves the company picking one of a number of approved lawyers, accountants, or other corporate finance professionals to vouch for its bona fides, permitting both the company and the exchange to outsource regulatory issues to these "nomads"). Alarmed by this and other trends (companies were also going public in Amsterdam and Tokyo; U.S. investment banks viewed China and even Europe as higher-growth markets), groups such as the Committee on Capital Markets Regulation increasingly spoke out about the oppressive burden that regulations like Sarbox created for Wall Street. "Let's be frank—people liked London because it was less regulated than New York," says the head of one of the large hedge funds that began building up a presence in the city at the beginning of the new millennium. "If you were a company going public, that was what mattered, period. For hedge funds, there was the extra benefit of the time zone." (From London, hedge funds could trade in Asian markets in the morning, European markets throughout their working day, and U.S. markets in the afternoon and evening.)

The SEC, meanwhile, became the target of a very specific and intensive lobbying effort to reduce the burdens of regulation on the part of Wall Street in the spring of 2004. The big investment banks, led by Goldman Sachs, wanted to increase the amount of leverage they could take onto the balance sheets of their brokerage divisions. If the SEC agreed, the investment banks could stop holding so much capital in reserve against future losses by their brokerage divisions. Instead, that capital could flow up the corporate chain to the parent

company, which could put it to work in ways best calculated to increase ROE and profits—ways that included investments in CDOs and mortgage-backed securities as well as credit derivatives and other complex structured products.

Since the net capital rule had been passed in 1975, investment banks had been required to limit the amount of leverage to \$12 in debt for every \$1 in equity on their books. They also had to tell regulators and shareholders if they approached that level too closely, and to stop trading if they exceeded it. In practice, that meant that leverage ratio rarely topped 10 to 1. But in a low-interest-rate environment, taking more risk and building up leverage levels was more vital for investment banks trying everything they could to pump up their return on equity. And the SEC seemed to feel that Wall Street was now grown-up enough not to require any adult supervision, that the investment banks were interested enough in their reputations and self-preservation not to do anything stupid. So, after a brief meeting in April 2004, the SEC, under its chairman Christopher Cox, gave the go-ahead to switching to a new monitoring system, one that allowed the firms themselves to establish their own capital levels based on their own computer models. “I keep my fingers crossed for the future,” quipped SEC commissioner Roel Campos, voting in favor of the measure.

Indeed, the decision proved to be the equivalent of firing a starter’s pistol. The race itself was between the major investment banks, each of which seemed to be eager to claim the title of being the first to pile the largest amount of leverage on its balance sheet—or at least to deploy leverage to maximize return on equity and profits. At Bear Stearns, leverage peaked at around \$33 of debt for every \$1 of equity, while at one point Merrill Lynch had leverage ratios of 40 to 1. Not surprisingly, the golden years of finance followed the repeal of these net capital laws: by 2006, financial services companies made up nearly a quarter of the U.S. stock market’s capitalization, compared to about 15 percent over the previous decades, and those companies earned 43 percent of all the earnings reported by companies in the Standard & Poor’s 500 index.

Ironically, the SEC was able publicly to spin this de facto bit of

deregulation as a way to increase its ability to keep an eye on what Wall Street was up to. That's because in exchange for the relaxation of the net capital rule, Wall Street firms agreed to let the SEC scrutinize their balance sheets, an agreement that conveniently dealt with another Wall Street headache—the threat by the European Union to regulate U.S. brokerage units doing business in England, France, and other parts of Europe. The EU authorities pledged not to do so if the SEC promised to regulate the parent entities. John Heine, the SEC spokesman, proclaimed that in fact the new 2004 rules “strengthened oversight of the securities markets, because prior to their adoption, there was no formal regulatory oversight” or liquidity standards for the parent holding company.<sup>20</sup>

That may have been true in theory, but in practice the SEC didn't seem terribly worried about what Wall Street was up to at either the brokerage firm level or the parent company level. Seven people were given the task of examining the finances of the parent companies. Performing that role, scrutinizing the balance sheets of the investment banking industry's largest players, should have given them enough insight into the levels of leverage and risk within the industry. However, they didn't act to rein in that risk taking, whether because they didn't believe it posed a systemic threat to Wall Street or because they lacked the power to address any problems that they spotted. (The contents of the SEC's postmortem on Bear Stearns, which not only clearly spelled out the firm's missteps but also suggested that regulators were aware of those missteps as they occurred, suggests that the latter explanation for inaction was more probable.<sup>21</sup>) Between March 2007, when the first questions were beginning to surface about the subprime crisis, and the autumn of 2008, after the collapse of both Bear Stearns and Lehman Brothers and the sale of Merrill Lynch to Bank of America, the group didn't even have a director to oversee their activities and lobby for action at higher levels within the agency.<sup>22</sup>

If Greenspan was correct in his suggestion that it was the nature of CDOs, derivatives, and other financial products that caused the problem, along with the way financial institutions failed to manage the risks they created, regulators should have admitted their

inability to control that risk. If the various regulatory bodies had simply acknowledged that they couldn't monitor Wall Street anymore, much less prevent investment banks from taking foolish risks, they would have delivered a clear message to legislators and investors alike that the latter would need to step up their own vigilance. Acknowledging that the regulatory system wasn't up to the task of reining in the increasingly complex world of Wall Street would have told other financial system participants to be still more prudent and protect themselves, since the regulators could no longer do it for them.

As it turned out, self-regulation remained the order of the day but ended up making no one happy. It irked Wall Street, which disliked having to pander (as bankers saw it) to regulators. In the eyes of Wall Streeters, most of these officials weren't nearly as smart as the financiers they were overseeing; certainly, investment bankers argued, they didn't understand what Wall Street's risk-taking culture was all about. After all, if the regulators were really competent and capable (or so the Reaganesque argument ran), they would have pursued a career on Wall Street itself, taking those risks and making big bucks, instead of becoming faceless bureaucrats. For their part, regulators were continually frustrated by their inability to get a clear picture of what was going on in the increasingly fragmented financial universe. Chaos seemed the most likely result of the potential information gap.

Most crucially, everyone seemed to want to defer to Wall Street. Politicians relied on Wall Street institutions for campaign donations; regulators such as the OTS relied on the same institutions to maintain their clout and budgetary power. Even today, it is Wall Streeters who have been chosen to oversee the bailout and restructuring plans by government officials.

At first blush, it seemed as if the credit rating agencies had a unique chance to speak their minds. They had acquired the status of quasi-regulatory institutions thanks to Depression-era rules banning banks from owning non-investment-grade bonds; that made agencies providing the now urgently required ratings a de facto part of the Wall Street regulatory apparatus. Ratings agencies didn't

report to Congress or rely on politicians for their budget needs. Ironically, as parts of the shadow banking system (such as securitization) became more important to Wall Street but also more likely to escape the oversight of other regulators, the ratings agencies became more crucial. At the same time, significantly, the nature of financial products became more complex. Only a triple-A rating could compensate for the complexity of the products emerging from the CDO-creation pipeline, enabling Wall Street to earn its fees and book the profits from its transactions.

Alas, the ratings agencies' ability to serve as some kind of guardian of the health of the financial system proved even more fallible than that of the accountants who had blithely overlooked years of financial misstatements by the likes of Enron and WorldCom. Part of the problem lay in the deceptive simplicity of the ratings themselves. The theory was that investors should be able to count on the credit quality of a triple-A asset to ensure that it would sail through any storm and emerge relatively unruffled, except perhaps in the event of a nuclear war or global pandemic. As bond managers liked to say, if a triple-A bond's quality deteriorated suddenly and significantly—enough, say, that it crossed into junk bond territory—then investors would have a hell of a lot more to worry about than what was happening to their portfolios. They'd be stocking up on canned goods and ammunition and heading for the hills. In contrast, a triple-B rating, while still investment-grade, signaled that an investor needed to monitor the transaction more closely. The ability to apply this very simple rating system to the extraordinarily complex world of structured finance was a coup for Wall Street, but it left investors with the perception that this new breed of security was just as easy for everyone to value and judge the risk of as a plain-vanilla bond.

The other problem was and remains the perennial one on Wall Street: the magnitude of the fees available for rating these CDOs and the identity of those footing the bill. Rating agencies may not have had to report to Congress, but they needed to report to their own shareholders. Turning down the opportunity to rate a CDO deal, a transaction that could generate \$100,000 in fees for the agency,

would have been just as hard to explain to their own investors as the decision by an investment bank not to structure the potentially lucrative CDO package in the first place. Not surprisingly, given the growing importance of structured finance products that required ratings, the ratings agencies became more deferential to Wall Street institutions, working with them to tweak the design of the product in question. By 2005, about half of Moody's revenues came from the fees it earned for evaluating these and other structured products, and as much as 80 percent of its growth in revenue was coming from the same kinds of complex products. As the assets underlying the CDOs became more risky, the ratings agencies had become so dependent on fees they earned from them that turning down a deal became harder.

Marty Fridson, the veteran bond market analyst, says the real conflicts of interest didn't arise at the ratings agencies until recently, when they began to rate structured products such as CDOs. "For years, people objected in principle to the fact that the issuers selling the bonds paid the agencies for the rating, but in practice, it was rarely a problem," he argues. Information on the bond and the issuer's financial position was readily available to any analyst who wanted to check the accuracy of the agency's rating. And, Fridson points out, at the end of the day, a company that needs capital often has less clout than the rating agency. "The rating agency has an interest in maintaining the integrity of the rating; the issuer has to pay for that rating regardless of what it is, if they want to be able to sell the bonds."

In the world of structured finance, however, if the senior tranche of a CDO didn't get a triple-A rating, investors would be less likely to purchase it and the deal would be pulled. With no deal left to rate, fees could be as much as \$500,000 for a straightforward CDO; \$850,000 for something more complex, as the FCIC later reported. Multiplied by the growing number of transactions taking place at most major financial institutions on the Street, this was hardly chump change for the rating agencies. "The deal only worked if the top part could get a triple-A rating, and so it was in the agencies' interest to make sure they could do that." Fridson explains. The



balance of power tipped definitely in favor of Wall Street. “No triple-A rating, no deal. No deal, no fee. Even if they’d had all the good intentions in the world, it would have been hard for them to manage that big a conflict of interest,” suggests Fridson. “Both sides had a vested interest in getting it right—at least, getting it to the point where it could be sold.” After that, it was caveat emptor.

Anyone expecting Moody’s to apply the brakes to the runaway train, however, had failed to recognize that some of the same considerations fueling Wall Street’s addiction to risk taking were present among the rating agencies as well. In 1998, Moody’s had become a publicly traded firm, meaning that its own outside shareholders could now also clamor for higher profitability. Mark Froeba, a former Moody’s employee, told the FCIC that prior to that watershed event, “an analyst’s worst fear was that we would contribute to the assignment of a rating that was wrong.” Later, it became “that he would do something, or she, that would allow him or her to be singled out for jeopardizing Moody’s market share.” Indeed, Moody’s employees reported that their decisions were tracked and second-guessed whenever a deal went to a rival such as Standard & Poor’s. Sometimes, the hapless analyst would be told to justify any action that led to losing a deal in a written report to their superiors. Investment banks picked up on this hunger for fees, a hunger they were all too familiar with: analysts who proved too uncooperative or demanding would be told that their bosses would be informed that they were being “unhelpful.” “They would threaten you all the time,” former Moody’s employee Gary Witt told the FCIC.

The hunger for deals may have encouraged the rating agencies to adopt many of the worst habits of the investment banks whose transactions they were—at least theoretically—monitoring. Why create a new, tougher model as mortgage underwriting standards fell? No one in the top echelons at the rating agencies wanted to find reasons to turn away business by offering less than a triple-A rating, and a new model might force them to do just that. Still, even a brief glimpse back through time should have been enough to force them to reconsider. Of all the structured deals put together

since 1980 and rated triple A on their debut, only slightly more than half were able to hang on to that rating for as long as five years, the FCIC discovered. It should have been clear that something was amiss with the initial rating process. And as for downgrades: well, that was a case of too little, too late. True, in 2008, rating agencies downgraded nine out of every ten CDOs in existence—but that happened long after the problems had become apparent and far too late for the downgrade to be the kind of useful “sell” signal to the investors that the rating agencies were supposed to be serving. Some of those investors—those who had scrutinized the rating agencies’ processes as well as the deals—had sold by then; others would be caught owning assets that they couldn’t sell for even pennies on the dollar.

No one in Washington or among the ranks of the quasi-regulators of the shadow banking system, it seemed, was both willing and able to oversee what was happening on Wall Street. To many, the debate over regulation felt increasingly academic, and little alarm was raised when an occasional regulator admitted that large parts of the financial system escaped not only the regulatory system’s control but even its sight. In part, this was because of what Goldman Sachs strategist Abby Joseph Cohen once referred to (in the context of the dot-com years) as the “Cinderella economy”—nothing was ever carried to excess, and the level of market volatility remained low.

Initially, Ben Bernanke, Greenspan’s successor as head of the Fed, was as phlegmatic as the Maestro himself. We were, Bernanke declared, living through “the Great Moderation,” a period of market tranquility. As long as that lull continued, the gap between the regulators and their ability to monitor and oversee what was happening on Wall Street grew wider. Each Wall Street innovation ensured that the rules governing the Street became more outdated. Even the collapse of corporate giants Enron and WorldCom hadn’t rattled confidence in the financial system for long. That financial markets could shake off such gigantic blows made even those worried about a looming subprime credit crisis confident that whatever happened, the financial system itself wouldn’t suffer

lasting damage; therefore, the fact that regulatory rules were outdated and agencies underfunded was less troubling.

When the government did respond to crises with new regulations, these tended to be too ad hoc to serve as well-considered responses to the root causes of whatever debacle they were intended to address. Many of them had just as many unintended consequences as deregulation had had. The settlement between regulators and investment banks in the wake of the conflict-of-interest scandals in investment research on Wall Street (finalized in 2002) required firms such as Citigroup and Merrill Lynch to rigorously separate research from investment banking activities. That laudable objective led to research itself being starved of resources; now that analysts couldn't use honest and objective opinions to help make money for the institution (even when those opinions were their own, developed without reference to their institution's financial interests), they were no longer a profit center. That meant that promising analysts ended up working in other areas of finance.

The long-term consequences were damaging for both investors (who had access to less good-quality research on a wide range of stocks) and for smaller companies whose stock prices languished when investment banks cut back their research activities. There is certainly far less publicly available research on one of today's hot new market sectors, green technology, than there was on the Internet in its early days. Then came Sarbanes-Oxley, which imposed costly new burdens on entrepreneurial companies, and which was passed in a matter of days to address the kind of governance problems detected at Enron only months previously.

In the view of some market participants, the need for well-considered and thoughtful regulation of Wall Street risk taking was growing as markets became faster-moving (with trades taking place in milliseconds rather than mere seconds), more global (with the advent of twenty-four-hour-a-day trading), and more interlinked. "Look, we're not known, as a group, for loving regulation for regulation's sake," says the CEO of one large hedge fund. "But someone, somewhere, should have had some kind of oversight of what was going on with Wall Street's balance sheets. And yes. I was

saying so at the time. There should have been some risk-based guidelines on how big those balance sheets were allowed to grow.”

On Main Street, there are lots of incentives for most of us to behave prudently. We try to keep some money set aside in cash for a rainy day—enough to cover our mortgage payment for a few months in case we lose our job or need to pay unexpected medical bills. In contrast, Wall Street seemed to be a kind of Wonderland, where normal rules of behavior were irrational. On Wall Street, all the incentives clearly urged financial institutions to believe that there would never be a rainy day and to behave accordingly. Washington succumbed to that way of thinking, whether it was due to Wall Street’s lobbying (an appeal to legislators’ self-interest) or to its preaching the virtues of self-regulation (an appeal to their idealism). By doing so, Washington seemed to suggest that this kind of magical thinking was just fine. As Niall Ferguson pointed out in the St. Patrick’s Day debate, Washington-based institutions, from the SEC to the Fed, were great enablers of the hijinks on Wall Street. True, regulators didn’t urge a financial institution to slash capital reserves to the bone—but they didn’t protest when that happened. They even adjusted the rules, obligingly permitting the institution to do just that. Or, if the rules weren’t changed, regulators such as the OTS quietly looked the other way.

Even after the collapse of Enron highlighted the risks associated with off-balance-sheet activities, Wall Street firms successfully lobbied for a rule that exempted them from consolidating their own offshore vehicles onto their publicly reported balance sheets. Suddenly, structured investment vehicles (SIVs) were being treated differently from off-balance-sheet vehicles at any other corporation. More and more, these SIVs became the place for financial institutions to park what they couldn’t hold on their own balance sheets. While the SEC had relaxed rules pertaining to capital for the likes of Merrill Lynch, the Fed maintained tougher standards for the banks that it regulated. But neither the Fed nor any other regulator cared about SIVs, since they didn’t show up on the balance sheet, and that balance sheet was what the regulators studied. So Citigroup shuffled lots of its hardest-to-manage securities into SIVs

it had created offshore; when outside investors in the short-term securities used to finance the SIV began to protest, Citigroup pledged to buy back those securities at their full value if they ever ran into trouble—a promise that would come back to haunt the firm in 2007 and 2008.

But Washington's failure to monitor the health of the money grid went beyond its lack of oversight over complex securities and offshore off-balance-sheet transactions. As well as providing too little oversight, Washington was providing far too much credit, thereby permitting and even encouraging the institutions whose well-being was crucial to the health of the financial system to pile on more and more risk.

The lower interest rates fell and the longer they stayed there, the more demand Wall Street found among its investment clients for higher-yielding securities, even those that came with extra risk attached. "The Fed did not take away the punch bowl [of easy money]," says economist Nouriel Roubini, the new generation's "Dr. Doom." Instead, he suggests, the Fed responded by adding "vodka, whiskey, gin and [other] toxic stuff to it."<sup>23</sup> And even as individual members of Congress tried to rein in some of Wall Street's excesses, they failed to realize how their enthusiastic participation in other initiatives was actually fueling them.

Certainly, few members of Congress objected to the principles enshrined in the series of laws they passed designed to encourage home ownership among all strata of American society. "We want everybody in America to own their own home," declared President George W. Bush in 2002 before launching yet another round of initiatives aimed at that end. And yet, as Sheila Bair noted in her FCIC testimony, "There are both opportunity costs and downside risks associated with these policies."

In the name of the overarching virtues of home ownership, subprime loans made their debut. These loans were more and more affordable thanks not only to the creative financing by financial institutions but also to rock-bottom interest rates being maintained by Washington even as the rate at which house prices grew each year suddenly jumped from 7 percent to 17 percent. Even after

Congress had become aware of the accounting problems at both Fannie Mae and Freddie Mac, they were slow to act to rein them in; by the time of their bailout, the two agencies had about \$65 in debt for every \$1 in assets. Those much-maligned subprime lenders could just claim that they were doing what their president commanded by turning more Americans into homeowners.

“Wall Street is one of the most competitive industries I have ever seen in my life,” says Seth Merrin, founder of Liquidnet, who does business with nearly every major Wall Street institution. “If you put three or four of these guys in a room by themselves, within fifteen minutes they’ll have some kind of bet going on, even if it’s just how long it takes for a raindrop to hit the bottom of the window, and they’ll all be yelling and screaming at their raindrop to move faster.” These are the same people, Merrin wonders in disbelief, “that regulators expected to be rational and sensible and rein themselves in when the going got really exciting?” Merrin points out that the combination of government legislative policies that encouraged home ownership, fiscal policies that revolved around cheap money, and a deregulatory ethos was an environment designed to fuel ferocious competition between Wall Street institutions, each of which was intent on winning the biggest market share while maintaining the lowest possible capital reserves. “All the regulatory oversight catered to encouraging their self-interest, not to getting them to think about the fear part of fear and greed,” he concludes.

## The Fallout

Regulation is never perfect; every effort to shape the outcome of what Wall Street does leads to unintended consequences. Jeff Rubin, director of research at Birinyi Associates, a market analysis and investment firm, has studied the way markets work for decades and wonders, for instance, why regulators who oversee Wall Street have been so intent on pushing for ultra-high-speed transactions. “If an institution is investing for the long term, why does it make a

difference that the trader can complete the trade in fifteen seconds instead of thirty seconds, and do it in pennies rather than eighths [of a dollar]?” Studies he and others have done show that speed doesn’t necessarily produce a better price, he says.

Rubin believes that many of the changes to the trading rules that have taken place over the last decade as markets have become more complex haven’t benefited the entities for whose benefit Wall Street is supposed to exist—long-term investors and the companies who use Wall Street institutions to raise capital from that group of investors. “Those changes help Wall Street institutions like proprietary trading desks and hedge funds make money, not investors or issuers,” Rubin declares bluntly. Regulators, he says, have been good at paying attention to the interests of the groups they are supposed to be overseeing but far less skilled at or interested in ensuring that the system their action and inaction produced was in the best interest of that core constituency.

Curiously, some of the beneficiaries of that lax regulation are now aligning themselves with Rubin (no relationship to Bob Rubin of Goldman Sachs, the Treasury Department, and Citigroup) and other critics. While no one has yet uttered the words “They made me do it!” some of the comments about regulators coming from senior figures on Wall Street don’t fall far short of that. “Look, the people who were selling this stuff, they are being offered incentives to do it, in an environment where their bosses and the government knew, or could have known, what they were doing,” says one top investment bank officer who worked closely with one of the former Wall Street CEOs dragged in to testify to Congress and the FCIC.

The executive is scornful of that process. “Oh, come on, it’s for the TV cameras! It’s like the car business; when the government is buying the car itself, why should I start worrying that this vehicle is unsafe at any speed? If Fannie and Freddie were buying these CDOs and subprime loans, if the regulators overseeing them and Congress weren’t saying, ‘Stop a second!’ then even if at the back of your mind you say, ‘Shit, I wouldn’t buy this,’ you justify it to yourself. It’s your job to do this, you have bills to pay—and everyone, including the government, is telling you it’s okay.” At the back of

Wall Street's mind, the former banker admits, was the thought that as long as Washington was putting its stamp of approval on the whole housing boom, those financial institutions that helped keep it moving wouldn't be held accountable for their actions; they would have a kind of get-out-of-jail-free card. That reasoning would prove valid for some, if not for those at Bear Stearns and Lehman Brothers.

The hearings by Congress and the FCIC, designed to probe the causes and consequences of the mess on Wall Street, have been great street theater but offered little in the way of hope for the Street's critics. If anything, however, they have showcased what seems like a lack of knowledge among representatives and senators about how Wall Street works, its purpose, and the reasons it came so close to the brink of disaster. Those hearings and the myriad public debates on the causes of the crisis have also shown how ready each group—Washington and Wall Street—is to toss the burden of responsibility to the other. Some held higher hopes for the FCIC. After all, its membership was made up of financially sophisticated individuals who were very familiar with the ways of Wall Street, and several of its members were ready to ask pointed questions of those summoned before its public panels. But even had the final report not been hampered by the inability of the members to reach a nonpartisan consensus on the causes of the crisis, the report—which didn't appear until late January 2011—was far too late to influence the first and likely most significant piece of the reform legislation, the Dodd-Frank Act. At the time of writing, it remains to be seen whether the specific abuses and problems the FCIC panelists identified can be addressed by regulators as they try to implement the changes that Dodd-Frank requires.

Ultimately, both groups are culpable. After all, Washington didn't hold a gun to the head of Chuck Prince or any other investment bank CEO in order to force Wall Street to keep dancing. But regulators and legislators alike, instead of pulling the plug on the jukebox in order to preserve the health of the money grid, looked the other way and allowed the music to keep playing and Wall Street to keep boogving. In some cases, they took actions that



resulted in the volume moving higher and tempting more participants onto the dance floor. The regulators and their overseers in Congress and the White House knew—or should have known—that the nature of those on Wall Street would be to cavort enthusiastically until the last note sounded. They could have insisted that the band play a mournful pavane in order to change the atmosphere. They could have taken away the toxic punch bowl that Roubini describes in order to restore sobriety to the proceedings. At the very least, they could have confiscated the car keys of all the revelers, to ensure that the damage they caused was limited to a few smashed glasses.

When regulators did wake up from their long nap and act, it was too late. They opened the Fed's lending window, in time to rescue Goldman Sachs and Morgan Stanley but too late to save Bear Stearns. By forcing a last-ditch rescue of Bear in the shape of the JPMorgan Chase takeover and bailing out Fannie Mae and Freddie Mac, regulators sent the signal to Richard Fuld at Lehman Brothers and other Wall Street CEOs that bailouts might be available for them, too. Not until the last minute, during a series of marathon meetings over the course of a now famous and stressful weekend in mid-September 2008 at the fortress-like headquarters of the New York Fed, did it become clear just how dire the situation was.

Timothy Geithner, then head of the New York Fed, urged the assembled bankers to try to find a way to finance Lehman's toxic assets, a measure that would have averted a bankruptcy filing and facilitated the company's sale to Barclays or another acquirer as a going concern. The Wall Street senior bankers, summoned at the eleventh hour and fifty-ninth minute, balked. How costly would this bailout be? Certainly far pricier than Long-Term Capital Management had been, at a time when their own balance sheets were under pressure. And why should they help a competitor acquire Lehman? The bankers focused instead on finding a solution to prevent other investment banks from following Lehman down the drain; Geithner tried to refocus the discussion on the immediate problem of Lehman. "You guys have got to try harder," he demanded.<sup>24</sup> Ultimately, however, there was no alternative to

Lehman's collapse; the effort was too little, too late.

Should Washington's legislators and regulators have treated Wall Street the same way that parents of irresponsible teenagers treat their children—setting curfews and restricting access to the family car? Your answer to that question probably depends on the philosophical perspective from which you approach it. But in the wake of the financial crisis and the credit crunch that rippled throughout the broader economy, leaving mayhem in its wake, it has become nearly as difficult to suggest that Wall Street be left to regulate itself as it has always been for parents to let their teenagers follow their instincts, however destructive, in the name of a laissez-faire parenting philosophy. As George Soros—who himself has profited richly from free markets—suggests, “The stability of financial markets is not assured; it has to be actively maintained by authorities.”<sup>25</sup>

What happens next is likely to follow the script written in the 1930s, in the wake of the last great systemic crisis. Washington is in the midst of rewriting the rule book according to which Wall Street must live, and building or rebuilding a set of institutions that can enforce those rules. Only when it's evident what form those new rules will assume—a process that may take another five years or more to become clear—will it be possible for Wall Street to move beyond the current range of interim responses and figure out how it will perform its core function for the rest of the twenty-first century.

In order to develop more than simply a Band-Aid solution, Washington and Wall Street will need to join forces and create a kind of accountable capitalism. Like it or not, Wall Street is not the type of business that can be allowed to simply collapse if its members behave foolishly and its investors don't rein them in. That means that somehow legislators and regulators will need to inculcate an awareness of that overarching duty among Wall Streeters, from the Lloyd Blankfeins right down to the greenest junior banker. Without a sense of fiduciary duty, on the part of both Wall Street and its overseers, to the financial system itself—and not just to those who earn short-term profits by participating in that system—there is little reason to be optimistic about Wall Street's

ability to avoid a future catastrophe.

Without free enterprise, there's no reason for Wall Street to exist, just as there's no reason to have cars if you don't have roadways on which to drive. But those roads have to be maintained, and cars have to be driven at safe speeds. Now it's up to a new generation of regulators and financiers to devise a new set of rules of the road for Wall Street, one that will emphasize its role as a utility.



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PART III

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THE NEW FACE OF WALL STREET

As fate would have it, two of the most illuminating comments on the nature of Wall Street, the reasons for the near-cataclysm and the prospects for its future, weren't made in any of the numerous hearings held by any of the Congressional committees and subcommittees or by the Financial Crisis Inquiry Commission. True, these summoned pundits of all kinds—regulators, legislators, members of the financial industry and academics—and provided them a forum within which they could debate the causes of the financial crisis and throw out their favorite ideas for reforming the system, to ensure that such a crisis could never be repeated. But while many of those trying to delve into what had gone amiss on the Street paid careful attention to these events and to the speeches given by the likes of Lloyd Blankfein and Henry Paulson to groups of all kinds, two throwaway remarks proved far more revelatory. Both were made by senior Wall Street figures—one to a radio talk show audience, the other in response to a question tossed out in the midst of a panel discussion held by financial journalists.

The first of these comments came from Richard Parsons, the lawyer who had previously served as CEO of the company formerly known as AOL Time Warner and who had been named chairman of Citigroup in early 2009. In May of that year, the government had taken a step toward restoring confidence in the financial system by requiring banks to undergo a stress test, running a crisislike scenario to see how well management coped and whether they had the financial strength to survive another liquidity crisis. Perhaps in order to celebrate the fact that the still-struggling Citigroup had passed the test (as had every other institution ...), Parsons was a guest on a morning talk show on WNYC, the New York City affiliate of National Public Radio. He chatted amiably with the show's host, Brian Lehrer, about the results of the stress test and the future of New York as a global financial center, his soft, warm voice carrying a tone calculated to reassure and even soothe any Main Street residents listening who might still be fuming about the billions of dollars it had taken to keep Citigroup afloat, and the fact that the government had become the bank's single largest

shareholder.

Parsons's voice stayed calm as he made one of the most significant and revelatory statements about how Wall Street's legacy institutions—the behemoths like Citigroup that had survived the crisis, often with the help of massive injections of government capital—viewed the future. Citigroup, Parsons declared, was committed to weathering the storm. After that, he added almost casually, the bank would feel obliged to “do right by our two major constituencies.” Seconds later, he unwittingly showed just how little those on Wall Street had changed their perception of the world and their place in it in light of the events of the last two years. Parsons didn't mention the government as one of those constituencies, or the taxpayers whose dollars had kept his institution afloat. Nor did he mention the financial system as a whole, on which we all rely to function smoothly. Not even the bank's clients—its depositors, borrowers, credit card holders, the companies for which its bankers helped raise capital—were acknowledged as one of those “major constituencies.” These, the Citigroup chairman explained, “are our shareholders and our employees.”<sup>1</sup>

In other words, the same kind of slavish catering to bonus-hungry employees and profit-hungry investors would come first and foremost on postcrash Wall Street—at least in the opinion of the chairman of one of its largest institutions. Parsons, via a spokesman for the bank, declined to elaborate on his comment or explain why this focus would produce better outcomes for the financial system and for shareholders than it had during the past decade, or why Citigroup would be better able to manage the kind of risks that single-minded approach created than it had been in all-too-recent memory.

John Mack, on the other hand, seemed to have emerged from the mayhem with a very different view of what went wrong—or, at least, a very different view of what was going to be possible on the new Wall Street. He disclosed this new attitude—one that surprised many who know Mack as a hard-driving banker ambitious to propel whichever institution he happens to be heading to the top of the league tables and to maximum levels of profitability—in

what appeared to be an unscripted comment in the midst of a panel convened by Bloomberg News and Vanity Fair to discuss media coverage of the crisis. Mack, weeks away from stepping down as CEO of Morgan Stanley, was in the audience; spotted, panel members urged him to answer a few questions. Soon the discussion shifted to how regulation of Wall Street needed to alter in order to prevent another such crisis in the future. Asked for his thoughts, Mack obliged. "We cannot control ourselves," he told a startled audience. Regulators have to do the job that Wall Streeters can't do for themselves: they "have to step in and control the Street." Mack declared he didn't care that ten or fifteen federal regulators now roamed the hallways at Morgan Stanley, now reborn as a federally regulated banking institution. "I love it," he said. "That kind of scrutiny forces firms to invest in risk management."

Two senior bankers, two events, two throwaway remarks—and two very different and conflicting pictures of Wall Street and the need for change. In Parsons's opinion—one that other bankers would later endorse, describing the crisis as nothing more than a particularly acute version of the kind of regular financial crisis that once happened every few decades—Wall Street could and should get back to business as usual as rapidly as possible. There was little need for change, Parsons implied. In contrast, Mack seemed to believe that without some kind of transformation in both the way Wall Street conceives its role and the way it does business, it might only be a matter of time until firms like Morgan Stanley would either precipitate or contribute to another financial crisis by focusing monomaniacally on what is in their own best interest and paying little heed to the kind of systemic risk their behavior creates.

Certainly, the rebound of the stock and bond markets beginning in the spring of 2009 and the rapid return to financial health of Wall Street's strongest survivors (Goldman Sachs reported profits of \$13.4 billion in 2009; JPMorgan Chase would announce that its own earnings had more than doubled since 2008, hitting \$11.7 billion) gave those Wall Streeters who had survived the carnage plenty to celebrate. As they enjoyed their bonuses—lavish, even if not quite back to precrash levels—Main Street erupted in outrage.



And the new administration of President Barack Obama took notice. In the early months of 2010, only weeks after the banks began reporting their financial results for 2009, President Obama announced plans for an overhaul of Wall Street. A key feature of this, he said, would be what rapidly became known as the “Volcker Rule,” named after former Federal Reserve Chairman Paul Volcker, its architect. In future, the president said, deposit-taking financial institutions wouldn’t be allowed to use their capital to treat themselves as their own best customers. No more proprietary trading; no more investing in hedge funds; no more participating in private equity investments as an investor.

The president didn’t use the word utility in his bombshell announcement, but he may as well have done so. Only days earlier, investment analysts had voiced excitement about the future earnings potential of the biggest or most powerful Wall Street players—Goldman Sachs and JPMorgan Chase—suddenly switched their focus to calculating how big a hit those institutions would take to their bottom lines if they were forced to act solely as intermediaries and restrained from the lucrative businesses that had generated so much of their income in recent years. Goldman, they calculated, would feel the biggest hit, forfeiting an estimated \$4.67 billion of earnings in 2011 if the president’s proposals became law.<sup>2</sup> No wonder the squawks of outrage were heard from every corner office on Wall Street, as one CEO after another scrambled to make the case that proprietary trading, hedge funds, and private equity dealmaking hadn’t been the cause of the financial crisis.

What Wall Street chose to overlook was the fact that those activities were symptomatic of the real problem. John Mack was absolutely correct in his diagnosis: left to their own devices, Wall Street firms cannot help themselves. They will revert to any and all activities that are in their own best interest, seeking out ways to earn higher returns and recruit the talent able to generate those returns by paying the most lavish bonuses and offering the most lavish perks. Risk management, however, would be seen in the same light as before: not just unprofitable, but eating into profits that otherwise could be paid out to either employees or

shareholders. The last crisis may not have been caused by proprietary trading, but by the attitude on Wall Street that had led to proprietary trading desks, prime brokerages, and “sponsor” groups becoming such powerful players simply because they could generate outside profits symbolized what was wrong with the system. As long as Wall Street continued to reward itself so lavishly at the same time as it chose to view some of its clients as little more than “counterparties” that should be prepared to look out for themselves in any and all situations, the risk of a repeat of the events of 2007 and 2008 remained high.

The crisis had not—and still has not—reshaped the fundamental attitudes of many of Wall Street’s leaders toward the financial systems. While they are responsible for making the money grid work efficiently and safely in the interests of all its beneficiaries, not just themselves or those able to reward them most richly, too many of the leaders think like Parsons: that their responsibility is to their shareholders and their employees. That attitude, coupled with the eagerness of Wall Street to return as rapidly as possible to the status quo ante once the immediate crisis had been averted, served as the catalyst for the president’s reform proposals. “My resolve to reform the system is only strengthened when I see a return to old practices,” Obama said at the time he proposed the “Volcker Rule.”

Just because Wall Street’s biggest institutions can construct CDOs and CDO-squared structures, because they can boost leverage levels, because they can structure transactions that even some of their bankers view as risky or dangerous for the investors that the investment banks convince to take the other side of the deal, doesn’t mean that they should do so. And that’s the problem at the heart of any discussion about the future of Wall Street: there are still too few incentives to say “no” to deals and financial products that shouldn’t happen. True, the subprime lending market is largely moribund; financial institutions won’t be able to take on nearly as much leverage under new rules set in place by national regulators and transnational groups like the G-20. The products that trigger the next bubble—and the next crash—won’t be CDOs, junk bonds, or dot-com stocks. But as long as some players in the financial

markets—perhaps hedge funds, perhaps private equity funds, perhaps some other entities that aren't on our radar screens today in the same way that subprime lenders weren't a factor on Wall Street as recently as the mid-1990s—generate massive amounts of fees for Wall Street institutions and want to undertake high-risk deals, there will be little motivation for those intermediaries to just say no. On the contrary, there will be every reason to go along, because the financial rewards will be there—as will the sense that if they don't grab the opportunity, their rival will. Inevitably, as John Mack realized, financial institutions are programmed to seek out and emphasize the riskiest businesses because that's where the biggest profits can be made. Self-control is simply not part of Wall Street's DNA.

In a pinch, we can muddle along with a dysfunctional health-care system, or even an educational system that isn't doing justice to our country's children. But we can't exist without a robust financial system. The question becomes, what kind of corporate structures, regulation and policy frameworks will encourage Wall Street institutions to behave in the interests of all its stakeholders and in a way that doesn't jeopardize the health of the financial system itself?

The efforts at reform that we've seen to date, many of which I'll address in the remaining chapters, are only a partial solution. The conundrum can't be addressed unless and until we're prepared to start thinking of and treating Wall Street as the utility that it really is. That doesn't mean that its institutions must be government-controlled monopolies—far from it. On the contrary, just as a freewheeling Wall Street turning out subprime CDOs with reckless abandon proved dangerous, I'd suggest that a government-administered financial institution that dutifully loaned more to struggling businesses would be equally hazardous. True, helping a small business obtain a much-needed loan to stay afloat may be more altruistic than creating another subprime CDO just in order to capture the fees, but that doesn't mean it makes more business sense or is less risky. Nor does it mean that Wall Street institutions must accept a regulated rate of return set by the Fed or some other agency, or even limit the size of the bonuses they pay out to their

top-performing employees.

Rather, it means that everyone whose fortunes are tied to Wall Street—from the loftiest banker to the lowliest trader and including investors in firms like Goldman Sachs—must accept that the sole purpose of the financial system isn't to enrich them. To earn those big bonuses, they can't focus obsessively only on capturing outsize profits or on beating Goldman Sachs in the race to maximize return on equity or dominate the investment banking league tables. We must redefine the meaning of success on Wall Street to include more than just profits for Wall Streeters themselves, but reasonable outcomes for those who rely on it: access to capital, a transparent system, and bankers who treat them as valued clients and not simply disposable counterparties. The mantra "caveat emptor" is no way to run a utility.

In the chapters that conclude this book, I'll explore some of the ways the trauma of the financial crisis has already begun to reshape the world of Wall Street. Some firms have vanished; new players are emerging. There's a possibility that entirely new types of players could begin providing intermediary-type services. A quarter-century from now, the list of Wall Street's most powerful firms and individuals may be very different in nature as some of these changes upset the balance of power. Goldman Sachs may no longer be the firm everyone wants to mimic and to outperform. But without some kind of sweeping change, begun either outside or within the financial system, the Street's participants will always be chasing their most successful rival, whatever that firm happens to be. And that ethos is a damaging one, something we can't afford to retain as the "new" Wall Street emerges.

Yes, the Dodd-Frank Act has been passed; the FCIC has rendered its verdict on the causes of the financial crisis. But we're still in the early stages of seeing that new Wall Street take shape, and it's up to all parties concerned to ensure that the system that results is one that serves all their interests, from Goldman Sachs right down to the smallest client of the money grid. The ethos of "chasing Goldman Sachs"—pursuing the maximum level of profits and return on equity without heed to systemic risk or the interests of all the

stakeholders in the money grid—is a model that must be abandoned in the name of creating a stable and sustainable money grid. Being a winner on Wall Street must mean being more than the firm that manipulates the grid the most successfully, earning the biggest profits in the process because that is all its own shareholders care about. After all, shareholders of the energy giant BP realized in the aftermath of the offshore drilling catastrophe in the Gulf of Mexico in the spring and summer of 2010 that the pursuit of profits wasn't all that mattered. What counted more, it turned out, was maximizing financial returns safely and with an eye toward the environmental consequences of its actions. The same is true of Wall Street, still grappling with the aftermath of its own version of a toxic spill. Perhaps one day it will rediscover and subscribe once more to Jack Morgan's pledge of doing "first-class business in a first-class way."

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### Wanted: A New Model for Wall Street

Without question, 2010 was an “annus horribilus” for all those at Goldman Sachs. Admittedly, it had begun on an upbeat note, champagne corks popping to celebrate not only the firm’s survival but also its startlingly rapid return to profitability in 2009. Even the professional pundits, the investment analysts who scrutinized Goldman Sachs’s financial reports in an effort to predict just how well it would do, fell well short of reality in their forecasts. The firm was once again the envy of the rest of Wall Street, reporting \$13.39 billion in profits, or \$8.20 a share, compared to consensus estimates of \$5.19 per share.

But the jubilation wouldn’t last long. Even as the analysts were digesting the fine print of the year-end report and revising their earnings estimates upward for 2010, a series of blows began raining down on Goldman Sachs. Until that year, Goldman had seemed immune to the kinds of turbulence that sent its rivals scurrying for cover, while its blue-chip bankers seemed never to make the kind of missteps that caused those rivals to founder. Then came the news that President Obama’s planned Wall Street reforms seemed likely to wreak havoc on the kinds of lucrative business that Goldman Sachs dominated and that generated a large proportion of those enviable profits it had just posted. Only weeks later came another, more serious blow: news that a newly ferocious Securities and Exchange Commission had sued the firm. Goldman Sachs, SEC enforcement officials alleged, had deceived its clients in the Abacus CDO transaction by concealing from them the role that John Paulson—the hedge fund manager who was eager to bet against the subprime mortgage securities in the transaction—played in selecting

the specific holdings in the deal. Had investors known that Goldman was bending over backward to cater to Paulson, would they have been as willing to buy in to the deal? The SEC's enforcement division thought not. Goldman's failure to disclose those facts—facts the SEC deemed “material”—rose to the level of fraud, the SEC alleged in its April lawsuit.

The envy of all his Wall Street peers until now, Lloyd Blankfein must have felt like the loneliest man alive at the end of the month as he sat in the hot seat in a Senate hearing room, struggling to explain to his Congressional inquisitors—members of the Senate's Permanent Subcommittee on Investigations—just why he didn't believe that his firm had an obligation to inform clients that it was trying to persuade to invest in subprime CDOs that its own bankers and risk managers were internally referring to the deals as lemons and the transactions as “shitty” or “crap.” “Clients don't care about our views,” he declared. For the first time in recent memory, Goldman Sachs's name and reputation commanded no respect or deference on the part of the senators; instead, they used the marathon session to challenge Blankfein and some of his senior officials on the basic principles of their business. Sometimes, they hit the nail squarely on the head, as when the junior senator from Montana, Jon Tester, demanded of the Goldman Sachs team assembled in front of him: “Who do you consider yourselves working for—the client or the firm?” That was just one of many questions that the Goldman team battled to avoid answering. “That's a complicated question,” replied Dan Sparks, the former head of Goldman's mortgage business.

It didn't take too long for Goldman Sachs to realize that trying to convince the public, members of Congress, and regulators that its actions—selling what one Goldman exec described as “big old lemons” of mortgage securities into deals that could be peddled to its clients, or rather, its counterparties—were acceptable behavior was doomed to failure. True, the firm remained as resolute as ever in public: it had done nothing wrong; it had discharged all its obligations to its counterparty in the Abacus transaction. But even if the firm won battles along the way, a growing number of Goldman



insiders was convinced that it couldn't win the war: it had to settle the case in order to appease its clients, stop the run on its stock that had wiped billions of dollars of market value from its shares in the weeks that had elapsed since the case was filed, and move on to more important issues, like figuring out how it would make money in a new regulatory and market environment.

Already, the lawsuit had overshadowed Goldman's release of another quarter's worth of blockbuster earnings in April; none of the Goldman partners who assembled in June for the firm's annual jamboree wanted to have that state of affairs continue. Sure enough, by July the warring parties had reached a truce of sorts: while Goldman wouldn't acknowledge wrongdoing, much less fraud, it would admit that its disclosure standards weren't all that they could be and the firm would pay a \$550 million fine to resolve the case. More significantly, the firm announced that it was already in the midst of a systematic review of its business practices—a tacit admission that these had drifted away from the principles of “long-term greed” espoused by the likes of previous generations of Goldman Sachs leaders. “There was a sense among us all that something, somehow had gone awry and needed to be fixed,” says one former Goldman Sachs partner. “The consensus was that we needed to find the path back to the kind of business culture that we had had before; the kind of environment in which it would never have been conceivable for us to sell securities to our clients that we were privately describing as toxic, as lemons, as crap.” Goldman Sachs had gone from being Wall Street's most admired and most envied firm to being its most reviled. True, rivals might still covet its profits, but now the sources of those earnings were coming under attack. Goldman couldn't afford to be perceived as the firm that was willing to do deals that a second-tier firm like Bear Stearns—an investment bank that hadn't been able to manage its own risk well enough to ensure its survival!—had turned down for ethical reasons.

But that left everyone with some big questions to address. What would the new Goldman Sachs look like? And would it be the kind of firm that could continue to dominate Wall Street and earn

outsized returns for its investors? Or was the Goldman Sachs era at an end? Would the new rules of the road being drafted in Washington favor new kinds of financial businesses? Would new players try to take advantage of the uncertainty? Would the financial crisis of 2008 and its fallout mark the end of an era or trigger little more than cosmetic changes to the way Wall Street did business? President Obama's objective was clear: he wanted an end to a financial system that had taken "huge, reckless risks in pursuit of quick profits and massive bonuses." But if the old Wall Street was mad, bad, and dangerous to navigate, what kind of new landscape would or should replace it?

### Goldman Goes Back to the Drawing Board

Goldman Sachs had spent decades scrambling to become an elite institution and by the 1980s, it had more than achieved that objective. Now, despite everything that had gone wrong, the firm's leaders weren't going to sit around and wait meekly to be told what to do next by a passel of Washington bureaucrats. After all, Goldman bankers were known not just for their aggression but their vision: hadn't their risk management team succeeded in identifying the risks in the credit bubble and acted to prevent the firm's collapse, while wannabe Goldmans had failed? The fact that that very prescience was being held against them in the Abacus case was, in the eyes of those at Goldman Sachs, at least, downright bizarre, but it also signaled that it was time to go back to the drawing board and start reinventing Goldman Sachs before the regulators did it for them.

"It was kind of a crisis for everyone who had worked at Goldman during the big transition, during the time period where we had gone from being a firm that saw a value in principles to one that saw the greatest value in earning the fattest fees possible," says one former partner. Everyone wanted to recapture something of the spirit of the old Goldman Sachs—not the firm that the rest of the world despised because it was believed that Goldman had been

making money at the expense of all the other participants in the financial system while the latter foundered, but the business model that earned outsize profits by being more agile and nimble than anyone else when it came to navigating financial markets and earning an outsize share of the rewards that were there to be captured. “If the firm is going to be what it was, we need to find a way back to the days when ‘long-term greed’ was what mattered,” says the former Goldman partner. “No banker can ever write e-mails like Fabrice Tourre did, showing how cynical he was about what the bank was doing, because there shouldn’t be anything to be cynical about.” It’s not a matter of morality, he adds. “It’s just common sense—it’s prudence, it’s responsibility, it’s about all the other things that have gone by the wayside across Wall Street in the last decade or so.”

That kind of thinking and the hope of restoring Goldman Sachs to its pinnacle atop Wall Street lay behind the review of business practices that Goldman began in the spring of 2010, while the review—with the implicit promise that Goldman had seen the light and would change its ways—helped to save the firm from the full wrath of the SEC and an even larger fine in the Abacus case. It also contained some unpleasant surprises for Goldman insiders. Particularly dismaying were the results of an independent survey of Goldman’s clients, which revealed that many of them had become wary of the investment bank in recent years. To those who were still trying to convince themselves that Goldman had done nothing to violate clients’ trust or that could be perceived as doing so, the results were horrifying: too often, a large number of clients said (after being promised anonymity) the investment bank put too much importance on its own interests at the expense of those of the clients. Insiders say they were taken aback by the magnitude and extent of the mistrust and skepticism and that the early survey results were among the factors that convinced Lloyd Blankfein to settle the SEC lawsuit as rapidly as possible. “Just imagine us asking a client to testify on our behalf in that kind of case, and then the dude getting up on a witness stand and saying nope, under oath, I can’t swear that there’s any reality to the Goldman mystique.” says

one Goldman Sachs insider. “That scared the hell out of everyone in the corner office.”

If the Abacus deal symbolized and highlighted what Goldman Sachs and the rest of Wall Street had become—entities that served themselves first to the choicest dishes on the menu and leaving the leftovers for their clients—the business practices review was an opportunity to correct that, at least in the eyes of some of Goldman’s veterans who recalled the days when the investment bank was still a partnership and when there were some deals and some business relationships that the firm shunned as unprincipled, however lucrative they might become. “We just didn’t do every deal—that’s how we got that elite reputation in the first place,” says one Goldman Sachs alumnus. He and others applauded when, in January 2011, the results of the review once again enshrining client interests as paramount were unveiled. “Our experience shows that if we serve our clients well, our own success will follow,” the review declared. The second principle, that the firm’s assets are its people, capital, and reputation, was also a familiar one, albeit with a new twist in recognition of recent events: the review noted that the last of these—reputation—would be the most difficult to restore if it was damaged. Going forward, Goldman pledged, “prior to accepting a role with a client, we will exercise care to ensure that we are able to fulfill our responsibilities to that client. Having assumed a role, we will not undertake activities or accept a new mandate that would prevent us fulfilling those responsibilities.” Providing superior returns to its shareholders ranked third on this list of revised priorities.

But will this mean that Goldman Sachs actually changes the way that it does business, and help shape a new Wall Street? It’s hard to say. While Goldman promises to make its financial statements more “transparent” and easy to understand, it hasn’t laid out a plan of action: it’s still unclear whether or how Goldman will act on these principles in the future. It’s also hard to see how the bank will be able to keep the demands of shareholders for superior returns at number three on that list: after all, Goldman, like other publicly traded corporations, has a fiduciary duty to maximize shareholder

returns. All that matters is that the actions it takes to do so don't put the corporation's survival and well-being at risk. Will shareholders stick around if they believe Goldman Sachs is bending over backward to cater to its clients at their expense—if Goldman walks away from potentially profitable transactions?

Goldman Sachs, like other firms on Wall Street, had lost its way during the previous decade or two. A new kind of business model had evolved, one that led to investment banks establishing a hierarchy of clients, with the so-called dumb money at the bottom. That included, as the Senate and FCIC hearings made clear, institutions like the German bank IKB, which bought the Abacus securities from Goldman Sachs without knowing of John Paulson's full role in the transaction—and without, as Goldman bankers scornfully noted behind the scenes, doing enough due diligence to detect the degree of risk they were taking on in the transaction. (IKB's losses on this and other mortgage-backed securities investments made it one of the first banks to fail in the crisis; bailing it out required a cash infusion of \$13 billion by a group of state-owned German banks.) "It's fair to say that the review caused us to think about the missteps we had made," says one Goldmanite. And yet, the review also seemed to duck away from some of the most critical questions. When it came to the issue of conflict of interest—who is Goldman Sachs putting first?—the firm took refuge in weasel words. Conflict of interest, it declared, "does not have a universally accepted meaning."

As Goldman's *annus horribilus* drew to a close and 2011 dawned, the only certainties were the questions that surrounded the firm and Wall Street as a whole. And the transaction that Goldman Sachs had hoped would give it a new public image—a \$1.5 billion capital infusion into one of the most-watched companies of the last few years, the still privately held social networking site Facebook—was supposed to provide the world with evidence that a new, kinder, gentler Goldman Sachs was already taking shape. Goldman Sachs itself wouldn't be the primary beneficiary of the Facebook investment—the kind of pre-IPO financing that historically has paid off with hundred-fold returns in the case of similarly iconic

companies in the past, from Google back to Yahoo! and eBay. Instead, while Goldman Sachs, alongside a Russian investment company, would invest \$500 million in Facebook, the bank's real role was the classic one of intermediary: it was responsible for negotiating the terms and conditions of the investment, which would include another \$1.5 billion of capital from Goldman's private banking clients. "This is Goldman doing what it does best, adapting to new circumstances and finding a way to make them profitable," says Clayton Rose, a former banker now teaching finance to students at Harvard Business School. Instead of using the firm's own capital to capture all of the potential return, Goldman Sachs, it seemed, had found a way to use its capital to develop a business relationship. "Friending" Facebook earned Goldman Sachs a fee today, a relationship with the company that hopefully would put the bank in the pole position when the race to become lead underwriter for Facebook's IPO got under way, and it would make the affluent clients of Goldman's private wealth management business happy, too, as they'd get a unique opportunity to invest in Facebook, a deal they could brag about today and profit from in the coming years.

In postcrisis Wall Street, this was a sweet deal indeed, one that showed Goldman Sachs at its innovative best. Goldman, like other Wall Street players, needed to identify some clever new ways to make money, with some of their most profitable businesses under attack: if regulators and legislators had their way, there would be no more proprietary trading or hedge fund investments permitted, and even the practice known as marketmaking—which could mean holding positions on a bank's balance sheet for months, making it look uncannily like proprietary trading in the eyes of those predisposed to be critical—was under siege. Add that to the fact that new rules meant keeping higher levels of capital in reserve and using less leverage, and the prospects that firms would resume posting record profits were becoming dimmer by the day. Even the financial markets weren't cooperating. By the summer of 2010, trading volumes across Wall Street had become "painfully slow," as Richard Handler, CEO of Jefferies & Company, complained when

warning investors that the investment bank would post disappointing third-quarter earnings; a growing risk aversion and directionless markets, combined with uncertainty about everything from the global economy to the stability of the financial system, were keeping investors on the sidelines. Even venture capital funds weren't eagerly pushing forward more than a select handful of social networking companies with familiar brand names as IPO candidates for Wall Street's consideration. "It's far easier for us to get these companies acquired for a modest premium, and collect our fees for that, than it is to gamble that one of them might actually get investors excited enough to be worth our time and effort in pushing an IPO through the pipeline," said one banker who works extensively with Silicon Valley startups.

In that climate, the Facebook deal looked like a dream come true, especially as the orders came flooding in—more than \$7 billion of them for the \$1.5 billion of stock on offer. Then Goldman's success once again became its undoing. Because the deal was being orchestrated by the now notorious bank, and being done for a high-profile firm like Facebook, news of the private placement leaked out into the public domain, along with speculation that Goldman Sachs had reserved the right to hedge its own Facebook holdings, something not available to its clients. Goldman officials denied that, but they couldn't stop the flood of publicity—publicity that isn't permitted as part of a private placement sold to individual investors under the securities laws. The only prudent course of action was to pull back; only non-U.S. private banking clients would be allowed to participate. Goldman's bankers were furious, and so were many of those bankers' wealthy clients who were now shut out of what promised to be one of the most attractive deals of the decade.

The Facebook deal offers hope for Goldman Sachs, at least—hope that it will be able to find new ways to compete and thrive in the new, postcrisis Wall Street. "Firms that previously lived off highly customized transactions that have a high degree of intellectual capital involved, like Goldman Sachs and JPMorgan Chase, will find their businesses and profit margins under serious threat. based

on the way that the new Wall Street is taking shape,” argued Rose in early 2011. “They will have to replace those earning with more traditional kinds of revenues, which also tend to have lower profit margins, so that’s going to be a real challenge. The business models will have to change.” And once again, a premium will be placed on creativity and innovation.

## Reinventing Wall Street

In the aftermath of the crisis, and lingering on into early 2011, there were more questions about what the new Wall Street would look like than there were answers. The passage of the financial reform bill known as the Dodd-Frank Act in the summer of 2010 provides a context in which to pose those questions, but this significant package of legislation needs to be implemented and then face legal challenges that will further define what it does and doesn’t permit Wall Street to do, before we will begin to understand the full ramifications of the new rules. Some lawyers calculate that will take five years or so; others argue it will be at least a decade.

In the meantime, however, Wall Street has already begun to undergo its own transformation, slowly and almost imperceptibly. Legislative reform and lavish bonus packages may have grabbed headlines throughout 2009 and into 2010, but other forces were already at work. Just as the bankers at Goldman Sachs were pondering what kinds of new transactions might make them money in this new business environment and laying the groundwork for the Facebook deal, even as the firm’s leaders battled to put to rest the SEC lawsuit, across Wall Street other firms were asking themselves the same big questions: What does Wall Street do, and what should it do? How does it function, and how should it function? The magnitude of the crisis and the dislocation it produced had been so great that almost anything now seems possible, at least in theory. For the first time in some seventy-five years, since the changes to the financial system that came on the heels of the 1929 crash, Wall Street players have received a glimpse



of entirely new vistas and possibilities. It's almost as if they have just arrived in the Wild West, been shown a map on which all the territory is up for grabs, and been told to go out and stake a claim. Everyone, from the newest member of the tiniest regional brokerage to the most eminent Wall Street veteran, is free to take part in the game of reinventing Wall Street.

Even if angry and aggressive legislators and newly reinvigorated regulators impose new constraints on what some financial system participants can do, many Wall Street veterans still see more opportunity than risk. In some cases, those opportunities may influence how we redefine what Wall Street is and how it functions. Winners can come from anywhere. They can be found among the ranks of the giant financial institutions (including Goldman Sachs); the boutique institutions launched by star bankers that try to replicate what Goldman was two or three decades ago and thus repeat its successful transformation into an elite and astonishingly profitable institution; and even among the midmarket players that end up dominating one particular niche within the investment banking universe, whether it's health care or green energy. At least one giant hedge fund dreams of a future in which it joins the ranks of the intermediaries, becoming an investment bank in its own right as well as an investment firm. Why not?

Some of these businesses dream of becoming the next Goldman Sachs; meanwhile, the actual Goldman Sachs and its peers at the top of the Wall Street power structure are intent on modifying their own business models as much as they need to in order to take advantage of new opportunities and avoid fresh risks, all the while trying to prevent too much change of a kind that might topple them from their perch. "They will fight—ferociously—to recapture any ground that was lost during the storm," says Jimmy Dunne of Sandler O'Neill. "We have a window of opportunity, yes, but it will close, and we'll have to fight just as hard to hang on to whatever we gain."

In place of the magical thinking that dominated Wall Street in the years leading up to the crisis arose a kind of willful amnesia. Surelv. leaders of the large legacy institutions like Goldman and

JPMorgan Chase reasoned, the events of 2007 and 2008 were nothing more than a giant nightmare from which they were now awakening? At first, events conspired to support that perspective. Goldman Sachs, whose employees seemed able to spin straw into gold, reported the largest quarterly profit in its history in the summer of 2009, only weeks after repaying \$10 billion of government bailout money. By the end of the third quarter of 2009, Goldman and JPMorgan Chase were running neck and neck in the profitability sweepstakes, each having posted profits of around \$8 billion.

Of all the firms fighting to reclaim their previous power and prestige, Goldman, as already discussed, had the steepest uphill climb. As its coffers swelled with its fresh profits and employees began spending their bonus checks, populist fury mounted. Even charitable donations didn't help. The level of outrage was reflected in the tone and content of Matt Taibbi's scathing profile of Goldman published in the July 2009 edition of Rolling Stone. Rehashing every conspiracy theory surrounding Goldman, Taibbi concludes (in some of the most memorable prose ever crafted in a work of business journalism) that Goldman is "a great vampire squid, wrapped around the face of humanity, relentlessly jamming its blood funnel into anything that smells like money."<sup>1</sup>

Lloyd Blankfein, embarking on a PR crusade to stem the hostility, didn't help matters. Granting an interview to the Times of London, Blankfein tried to emphasize Goldman's crucial role in the financial grid, arguing "we help companies to grow by helping them to raise capital. Companies that grow create wealth. This, in turn, allows people to have jobs that create more growth and more wealth. It's a virtuous cycle." But then, he went on to declare that Goldman Sachs is "very important" and that it serves a "social purpose." Blankfein even told the interviewer that he believes he is "doing God's work."<sup>2</sup> His performance during the Senate hearings, during which he was interrogated on the details of the Abacus transaction and his thoughts on client relationships in general, was even more counterproductive.

Even before the markets made earnings outsize profits much

harder in the summer of 2010, Goldman Sachs was finding that it had to keep increasing the amount of risk it was taking in order to stay on top. Throughout 2009, the firm's average daily VaR level rose steadily, following a 20 percent jump in the first quarter. Most of that came from its trading, particularly in the risky bond and currency markets. For most of 2009, the gap between bid and ask prices—known as the spread—remained extraordinarily wide, offering savvy traders the possibility of paying low prices to buy securities they could resell later at a higher price, either because the asset had risen in value or the spread had narrowed. Or, if the trader was executing a transaction for a client, wider spreads justified higher fees. In the second quarter of 2009, Goldman earned more than \$100 million revenues on forty-six separate days of trading, according to an SEC filing—a record. Its value at risk shot up in the same period to an average of \$245 million daily, from \$184 million in the second quarter of the previous year. Goldman's profits drew irritable comments even from Wall Street insiders, concerned that the risks being taken to earn them would once again come back to haunt others who relied on the financial system. "They are making very luxurious returns," said Larry Fink, the founder and CEO of BlackRock and himself a former investment banker, of Goldman's profits. He went on to imply that this came close to profiteering at the expense of the money grid's users, including investment firms such as BlackRock.<sup>3</sup>

Every player cherishes his or her own dream of what the new Streetscape should look like. Some will find that vision harder to realize than others—Citigroup, for instance, will find it hard to reclaim all its past power and prestige. Regulators will have a tough battle trying to force legacy institutions like Goldman Sachs to change the way they think about their business. For others, the task will be simpler. All that is needed for some smaller firms to realize their vision is for Wall Street's giants to continue in disarray and confusion long enough for them to carve out a new and larger role for themselves during the morphing of the money grid. There is every incentive for the rest of Wall Street to continue chasing Goldman Sachs. in part because there is more opportunity than ever

before for some other institution to displace Goldman at the top of the Wall Street hierarchy by being just as smart and attracting less attention and controversy. Chasing Goldman Sachs could take on an entirely new meaning.

## Wall Street's Barbell

As the panic that had gripped Wall Street at the height of the crisis in 2008 began to abate the following year, it was replaced with controversy. To avoid a repeat of the crash, what should the “new,” postcrisis Wall Street look like? Should it be a completely fresh set of institutions, carved out of the strongest part of the legacy firms and supplemented by the array of midmarket firms and a host of boutique institutions and new players? Or should it be back to business as usual, only with a smaller number of ultralarge players dominating Wall Street?

As early as the autumn of 2008, it was clear that in the first stage of the evolution of a new Streetscape, at least, the financial system would look much like a barbell. At one end was a numerically small number of firms that, thanks to their gargantuan asset base, would likely continue to wield a disproportionate amount of power. These behemoths might be fewer in number than before—Lehman was gone; Bear Stearns, absorbed into JPMorgan Chase; and Merrill Lynch, now forming one division of the suddenly much larger Bank of America—but they would be powerful competitors. These “too big to fail” institutions also emerged as the focus of a controversy: should the government have shielded them from the full brunt of the financial crisis in the name of trying to protect the financial system itself from calamity? And would they continue to be handled with kid gloves because no one wanted to discover firsthand what might happen if they collapsed?

While the lion's share of the business—profits from underwriting stock and bond deals, advising companies on mergers, and providing trading services to clients—still rests in the hands of the giants, there is a lot of interest in what is happening at the other

end of the barbell, inhabited by a cluster of boutiques and specialized investment banks. Some are already established, like Sandler O'Neill or Jefferies; others have only recently been created by star bankers and traders who had decamped from the giant firms either before the crisis or in the wake of the chaos and upheaval. All of them are aware they have more chance than ever before of unseating some of the powerhouse firms and many are building their business plans on one incontestable fact: the distaste for and widespread distrust of "big Wall Street," exemplified by firms like Goldman and Citigroup.

Their potential clients may not subscribe to the kind of conspiracy theories put forth by Taibbi in Rolling Stone, but they do have lingering misgivings about the way those big players regard their clients in the wake of some of the disclosures in the FCIC and congressional hearings. Who wants to be the next IKB, the sucker who is fed a bunch of toxic securities by the next unscrupulous banker? The taint associated with old-model Wall Street is such that brokers and investment advisors who once loved to boast that they belonged to Merrill Lynch's "thundering herd" are now fudging their answers to the question "So, what do you do for a living?" Some are even deserting, setting up independent businesses.

"Some of the changes that we've seen happen in the wake of the crisis aren't likely to be unraveled any time soon, and they are changes that favor the creation of new business models on Wall Street," argues John Costas. He's putting his money where his mouth is. For more than a quarter of a century, Costas worked for some of Wall Street's biggest firms, rising to become head of investment banking at UBS. In the wake of the crisis, he launched the PrinceRidge Group with former colleague Michael Hutchins, a broker-dealer to trade a growing array of fixed-income products. But that's just the beginning of Costas's ambitions. He plans to turn to his advantage both the anger at Wall Street and the reality that the size of the "too big to fail" institutions can't serve all clients well; PrinceRidge, he calculates, is ideally positioned to fill what he believes is a void in the market left behind in the wake of the crisis.

"On a normal day in 2008 and into 2009, about half the market

share [was] up for grabs and the little firms were making ten times more money than they had ever made before,” says Costas. He sees no reason that shouldn’t continue and delights in the prospect of beating the big guys at their own game. Only weeks after opening its doors in 2009, PrinceRidge was off to a flying start; in 2010, it opened offices in Chicago and Los Angeles. “It’s a very unique time, where you can open a business and right away have clients doing business with you.” He sees no signs that the market opportunity is shrinking: while in 2006, about 85 percent of the trades that PrinceRidge is targeting were handled by the Wall Street giants, that ratio remains much lower. “Over the next three to five years, fifty percent or so will be up for grabs by firms like ours.”

Hedge fund manager Nick Harris\* is already seeing the impact of that trend. Harris relies on Wall Street traders to get him in and out of positions in stocks at a second’s notice. Beginning in 2008, he realized that some trading desks at the giant Wall Street firms weren’t as able or willing to help him put together trades as they once had been—even though Harris manages a few billion dollars in assets. JPMorgan Chase and Barclays (which acquired Lehman’s investment banking operations) seemed to have little interest in changing that state of affairs. So when Harris set out to raise another round of capital, he embarked on a simultaneous quest to broaden his trading relationships.

“There’s a great opportunity for anyone who is interested to come and grab market share in the trading universe—the Canadian banks, European institutions like BNP Paribas, or the midmarket firms like Jefferies,” Harris says. “Anyone with any kind of appetite for risk and the ability to manage it could grab the business away.” Previously, Harris had never dealt with trading desks at Jefferies or Key Bank. Now, he says, they “are starting to be more important to us because they are the guys providing the liquidity” in the place of giant institutions like JPMorgan Chase that reason tells him should be better able to do that. Harris now has a long list of those firms and individuals, including a relatively small Texas-based company that helped Harris execute some crucial trades in the stock of a tobacco company. That firm was added to speed dial on his traders’

phones; it took the spot once reserved for Citigroup, Harris says.

## Forging a New Reality from Opportunity

Jeffrey McDermott has his own dreams of grabbing market share from the big institutions at the other end of the barbell. Unlike some other refugees from the Wall Street giants, McDermott initially thought he might launch a private equity firm when he left UBS in 2007. But raising capital as the credit bubble lurched toward its end proved difficult; McDermott switched his focus to a more distinct and more compelling business idea, and one he felt had a better chance of thriving: a boutique investment bank dedicated to advising and raising capital for clean technology and other green businesses.

“From the point of view of the economy and society as a whole, it was pretty clear to me that climate change and global sustainability were going to continue to be big areas of interest and investment for a while,” McDermott explains. He calculated that, as had been the case in the dot-com revolution, smaller companies would likely lead the way. But with Wall Street’s big firms caught up in the battle to return to their old business model and engaged in fighting off Washington’s reform proposals, firms like Goldman Sachs weren’t likely to be interested in any but the top 0.01 percent of those businesses, leaving, McDermott estimates, about three hundred companies in this arena “underbanked.” Again, the upheaval had created a void—one that McDermott is filling with his new firm, Greentech Capital Advisors. He almost chuckles with glee discussing the magnitude of the opportunity, one that his years spent dealing with Fortune 500 clients at UBS prepared him to fill. “This whole industry has only grown up in the last (few) years, so there’s no embedded firm with specialized knowledge and a competitive advantage. It’s all new intellectual capital, and I’m in on the ground floor.”

It remains to be seen whether players like Costas and McDermott can translate their early advantage into a lasting and sustainable

business edge. Dick Bove, an investment banking analyst who himself now works for a smaller firm, Rochdale Securities, argues that the big firms are likely to lose market share to the top new entrants. “The risk is on the side of JPMorgan Chase and the other big players,” he says. “There’s a space at the top of the investment banking world, where firms like Lehman, Bear, and Merrill Lynch once were—and yes, Goldman too, before it and Morgan Stanley became banks. That’s the space that is up for grabs and it remains to be seen whether a new hybrid model—a firm more diversified than a traditional boutique, but that isn’t driven by the need to post big returns on equity—will emerge and grab that, or whether it will be divided up between the big guys and the small, specialized boutiques.”

Certainly, the boutiques showed no signs of standing still—on the contrary, they buzzed with excitement and a sense of opportunity. For years and sometimes decades, boutiques like Greenhill & Co. (founded by Robert Greenhill, former rainmaker at Morgan Stanley) had worked quietly but very profitably on the margins of Wall Street. With moderate fixed costs—they didn’t run giant trading desks or have big underwriting or distribution businesses to fund—they had no giant debt load and while they hadn’t been as locked into the pursuit of return on equity, they had done very well at the game nonetheless. (In 2006, when Goldman Sachs reported a 33 percent return on equity, becoming the envy of all the big Wall Street institutions, Greenhill generated an ROE of 56.3, rising to 82 percent in 2007.) It seemed to offer convincing evidence that trying to mimic Goldman Sachs was not the only way to become extremely wealthy on Wall Street. Greenhill never branched out beyond its core area of expertise and so, even at the height of the market meltdown in November of 2008, it managed to attract an extra \$80 million in capital from investors eager to back one Wall Street business that seemed to know what it was doing. (It took only hours to raise the money; Bob Greenhill later bragged to Fred Joseph that he could have raised twice as much.)

The capital would come in handy, since Greenhill was taking advantage of the chaos to recruit discontented top bankers from



across Wall Street. From Merrill, Lehman, Citigroup, and Morgan Stanley, the bankers flocked to Greenhill and other boutiques, suddenly realizing that this was the kind of place he or she had always yearned to work. “It was obvious from the start that we didn’t have to make the kind of tradeoffs—we weren’t trading, we weren’t lending, we were being hired for our expertise,” says one banker who made the move in 2009. Greenhill acquired a Chicago office, and then opened one in Los Angeles as well, then expanded its roster of activities in London. The new bankers brought big deals with them: Greenhill advised Roche on its \$46.8 billion battle for control of biotech giant Genentech. Not only were the boutiques avoiding the giant writedowns, but they were getting seats at some of the best deals in town: advising on InBev’s \$52 billion purchase of Anheuser-Bush; Pfizer’s \$68 billion bid for Wyeth; and the \$58 billion merger of mining giants BHP Billiton and Rio Tinto. By mid-2009, their share of the merger advisory market had hit 15 percent—and that of the giants was down.

Some of the boutique bankers were focused not on chasing Goldman Sachs but rather on finding a way to reinvent the “old” Goldman Sachs for the twenty-first century. Ken Moelis, a veteran of such feisty second-tier institutions as Drexel Burnham Lambert and Donaldson, Lufkin & Jenrette, was one of these. Moelis became a power player at UBS, from which he walked away only weeks before the Swiss bank realized the full magnitude of its subprime lending problems. (Moelis wasn’t involved in that CDO business.) Having turned UBS into a viable rival to Morgan Stanley and Goldman Sachs, Moelis figured he would repeat the feat—but this time for his own benefit. Now it would be Moelis & Co. that went head-to-head with Goldman Sachs.

At a Los Angeles dinner celebrating the new firm’s launch, Moelis delivered a brief motivational speech to the small team of veteran bankers he had convinced to join him. It was clear that he saw the fledgling investment bank as something more than just another one of a cluster of boutiques. “I hope this is the beginning of something that, a hundred years from now, people will look back on and say, ‘That’s when it started.’ ” Moelis later recalled saying. In fact, he

thought it was the kind of moment that deserved to be preserved in the kind of old black-and-white photographs that had hung on the walls of the firms where Moelis had learned his trade and now set out to beat; the photograph featuring Messrs Goldman and Sachs, for example.<sup>4</sup>

Within twenty-four hours of opening his doors, Moelis had made the magnitude of his ambition clear, parlaying a long-standing professional relationship with Stephen Bollenbach, the CEO of Hilton Hotels, into a \$13 million fee for Moelis & Co. in exchange for the new firm's assistance advising Hilton on the hotel chain's pending purchase by Blackstone. More deals followed and to be sure he was prepared for anything, he poached a forty-person team of restructuring bankers from Jefferies & Co. to handle what he expected would be a wave of bankruptcy-related workouts.

Even firms that had previously abandoned the investment banking and market-making parts of the financial services business seemed to take a new interest in their potential in the postcrisis environment. Sanford C. Bernstein & Co., noted for the caliber of its investment research, announced in December 2009 that it had recruited Thomas Morrison, a former Bank of America investment banker, to launch a new division that would focus on underwriting securities transactions for clients. This was a part of the business that Bernstein (now a division of asset management company, Alliance Bernstein Holding L.P.) had abandoned previously, amid controversy surrounding the potential for conflicts of interest between its research and the demands of serving corporate finance clients. Faced with the size of the opportunity that had arisen, those concerns now took a backseat.

The presence of these new rivals is an additional threat to the established banks, at a time when they already feel under siege by government policy changes. Some have let their frustration and vulnerability show, as when UBS filed a lawsuit against Jefferies & Company, claiming that the latter had been "surreptitiously planning" a raid on the former's banking talent before it poached a team of star health-care bankers. UBS had lost a lot: in the last four years, the team and its leader, Benjamin Lorello, had earned more

than \$1 billion in fees for UBS. Given that the ties between a top banker and his clients tended to be stronger than those between the clients and whatever institution that banker happened to be working for (with the possible exception, of course, of Goldman Sachs), the suit showed just how concerned UBS was that its brand name not be further damaged by such defections.

## The Future of the Behemoths

Wall Street's giant firms may feel threatened, but they aren't dinosaurs. Nor will they simply slink away into the night. For starters, many of them still have access to one of the scarcest resources on Wall Street postcrisis: capital. Underwriting deals is fine; advising on mergers is a great business. But to be a powerhouse player requires capital—and the talent to deploy it in such a way as to make money at every turn. “To stay in the game, you need capital,” points out one Goldman Sachs banker. “Do you think that we just take an order to sell so many shares of General Electric [but] don't execute it until we find someone else who's willing to buy [the shares] at that price?” Nonsense, he says. Being an intermediary these days means knowing what price to pay for a big block of stock a client wants to sell, being willing to keep some, most, or all of those shares on the firm's own balance sheet (“warehousing” it, in Wall Street parlance) until a buyer can be found for it at a high enough price, and managing the risk associated with that position. That kind of market-making requires a big balance sheet as well as trading talent: two assets the typical boutique doesn't possess. “They're just too small,” the banker says of the boutiques. “The phrase I hear is ‘too small to thrive.’ I don't know about that, but they'll be thriving in their own little corner of the world, not expanding into ours.”

Whether that dismissive perspective is accurate or not isn't the point. Rather, the issue is that none of the rivals has a clear monopoly on the winning Wall Street model. Size has its advantages; being nimble and opportunistic will benefit other firms.

Even some of the firms that have struggled in the wake of the crisis have a chance at emerging in the winners' corner, once they are recapitalized and efficiently managed.

Still, by the time the dust settled it was clear that one of the large firms had a chance of beating Goldman Sachs at its own game. After years spent stuck beneath Goldman, Morgan Stanley and even Citigroup in the league tables and thus in Wall Street's pecking order, JPMorgan Chase was emerging as the dealmaker that its rivals were starting to envy by the summer of 2009. Of every \$100 of fees companies paid to Wall Street banks for underwriting stock sales, JPMorgan Chase collected \$15, while Goldman Sachs pocketed only \$10. JPMorgan Chase vaulted from sixth to first place in the much-watched underwriting league tables since 2005, when it had earned only \$5 of every \$100 of fees. It was already a powerhouse player in the debt and loan markets, and its bankers were faring well in the battle to advise on mergers and acquisitions, helped by the bank's ability to make loans in support of these deals. (The battle between Goldman and JPMorgan for primacy continued into 2011.)

Moreover, the bank had relatively few legacy issues to deal with; whether by accident or design, its CEO, Jamie Dimon, had steered clear of the subprime mess; he had been tapped to acquire both Bear Stearns and Washington Mutual—deals which dramatically increased the bank's size and clout—because of its balance sheet strength. Almost overnight, Dimon became a kind of Wall Street superhero, one of the only Wall Street leaders to emerge untainted from the fiasco. At the firm's annual meeting in 2009, Dimon was thanked at least twice by shareholders for his leadership and was able to promise in return the prospect of a higher dividend.

The biggest banks face one giant obstacle, however: the raft of new regulations that I'll discuss in the next chapter, many of which will make it more difficult for them to take the kind of big risks that generate outside profits. There is certainly a need for some kind of restraint: within a year of the crash, even the losers among the big banks were behaving as if they were winners and once again seeking ways to take risks that, if left unchecked as they had been

before, could create fresh havoc within the financial system. Citigroup, for instance, despite still having the government as its single largest shareholder after it had come closer than most other survivors to utter collapse, was mulling plans to revamp and relaunch its alternative-investments division before the first reform proposals announced by President Obama raised questions about its ability to do so. How risky might that have been? Well, one of the bank's former hedge funds had been liquidated in the wake of the crisis and had returned only 3 cents on every dollar investors had put into it—not a track record to inspire confidence in either the immediate managers or the bank officials overseeing the division. Happily, investors agreed that they weren't willing to climb back aboard this particular bandwagon: while Citi had hoped to raise \$2.5 billion by 2010, at the end of 2009, it had received investor commitments for a mere \$150 million. Perhaps investors will impose a kind of discipline on Citigroup's management that even near-bankruptcy failed to do? At least, that is possible for as long as those investors remain fearful. When memories of the crisis are less vivid, when greed returns and regulators become less vigilant, the system will once again be at risk.

For now, at least, everyone remains intent on ensuring there is no repetition of the events of 2008. "The regulators are hell-bent on not having this happen again," says Leon Cooperman, the former Goldman Sachs partner who currently heads a large hedge fund group. How can he be so certain? The very fact that they insisted that Goldman—along with Morgan Stanley—become a banking institution and subject itself to tighter levels of regulatory scrutiny. "When I was a partner at Goldman Sachs, we would sit around the partners' dining room and talk about how we never, ever wanted to become a bank; that the banks were too regulated, that the returns were much less in that business and what have you." And yet, that's precisely the path Goldman's leaders chose in September 2008. "You can rest assured that [they] became banks not because they wanted to, but because the government made it clear to them that was what was going to happen," Cooperman opines.

Even before the administration unveiled what would become the

Dodd-Frank Act in 2010, it was clear that regulators and policy makers wouldn't put up with Wall Street firms taking as much risk as they once had. Becoming bank holding companies meant that Goldman and Morgan Stanley came under the scrutiny of a new set of regulators and faced more restrictions on the amount of leverage they could deploy in the quest for profit. The Dodd-Frank Act, when it was passed in the summer of 2010, complicated matters further, putting another sizeable obstacle in the path of Wall Street institutions hoping to return to being profit-generating machines for the benefit of their shareholders and employees, as Citigroup's Parsons envisaged. If they can't pursue some of their most profitable business lines, and can't use leverage, then what?

"By and large, you can't make large sums of money without taking risks," comments Franklin Allen, finance professor at the Wharton School of Business. "The more money you make, the indication is that you probably took a lot of risk to do it... And I think that's part of the problem."<sup>5</sup> Wall Street CEOs don't want to attract the suspicion of regulators by becoming extraordinarily profitable; at the same time, at some firms that have been slower to reembrace risk taking in the wake of the crisis, rumblings of discontent have been heard.

Morgan Stanley—the firm that forced out a former CEO, Phil Purcell, for being too reluctant to take risk—is now a much more conservative place to work, thanks to its new CEO, James Gorman. Before leaving that office, however, John Mack—who had insisted that Wall Street couldn't be trusted to govern itself—hired one hundred new risk managers. And yet bankers weren't happy that Morgan Stanley was taking longer to bounce back than archrival Goldman Sachs, meaning that bonuses would likely remain smaller. Some executives claimed that it wouldn't be long before the firm would be standing "shoulder to shoulder" with Goldman again, at least in terms of profitability and market share.<sup>6</sup>

But Wall Street is going to have to work harder and battle new kinds of rivals to earn the kinds of profits to which it had become accustomed in the first few years of the new century. The CDO machine is dead: the buyout funds are likely to be even more hard-

nosed when it comes to negotiating fees for advising them on acquisitions or underwriting IPOs of their portfolio companies. If the Dodd-Frank Act turns out to mean in practice what it appears to mean in principle, then Wall Street's institutions will be forced to rely on more plain-vanilla transactions to generate profits. That will be a good thing for the stability of the system—at least until Wall Street figures out a way to bypass the spirit of the rules while still adhering to them technically, and make money by marketing some new strategy or product or using some financial engineering technique that we can't even conceive of today.

The incentive exists to do just that, because those plain-vanilla transactions—the ones that are essential to the smooth functioning of the money grid—generate smaller fees, meaning profits will be thinner on the ground and shareholders increasingly dissatisfied. Goldman Sachs got a taste of that in the summer of 2010, when its return on equity dipped to a worryingly low 9.5 percent, a far cry from the 20 percent that Goldman leaders had always considered the base case and the 10 percent that is considered essential for a financial institution to prevent its existing shareholders from fleeing. If lower ROEs become the norm, Goldman and its rivals may yet—gasp—end up looking like a real utility.

## Tug-of-War

The incentives for Wall Street to return to its past practices are all in place; the question that remains to be answered is what factors will rein in a repeat of that behavior. Regulators may place their faith in their ability to craft new rules but others, as I'll discuss in the next chapter, believe that a cultural transformation is required. But perhaps it will be the arrival of an entirely new kind of competitor that convinces Wall Street to keep its risk taking in check and focus on its core business. What if those firms that had been Wall Street's biggest clients over the last decade—hedge funds and buyout firms—now became its rivals? What if they began to try to serve as their own intermediaries and dispense with at least

some of the services of Wall Street's traditional money grid operators? Could a firm such as Blackstone replace Goldman Sachs and beat it at its own game?

It may sound outlandish, but buyout fund manager Jake Martin, who has been helping to structure financial transactions for a specialist buyout firm for nearly two decades, believes he and his peers have all the skills that are required. "I think it's quite possible that some of these large and very diversified buyout firms could bypass institutions like Citigroup altogether and sell bond deals for their portfolio companies directly to the buy side," Martin remarks. A firm such as KKR knows who the logical investors are for the debt it wants to issue to finance the purchase of, say, a medical devices company. "They have the same knowledge and skills as Citigroup—their ranks are full of bankers." Battered legacy institutions aren't attractive banks to work with, Martin adds. "At some point, it will be KKR and not Citigroup knocking on the door of other investors. They'll say, 'Hi, we're here to get you to buy a piece of this bond or loan deal, which we've taken a big piece of ourselves.' They'll be part investor and part banker, and the change will occur relatively seamlessly."

KKR is already taking baby steps in that direction. Back in 2007, it recruited Citigroup banker Craig Farr to build an in-house investment banking division, KKR Capital Markets, to serve the firm's own portfolio companies and give the buyout group more control over the whole investment banking process. In 2009, KKR Capital Markets signed an unusual pact with Fidelity, giving the investment giant exclusive access to KKR's share of any of its portfolio companies in the wake of an IPO or other public issue. This gives KKR an exit strategy for its holdings, and Fidelity the option to pick up some stock in any businesses that its money managers find intriguing without having to compete for them on the open market. Even more intriguing to many was the decision by Farr and KKR to provide the struggling Eastman Kodak with a cash infusion in 2009, a transaction that gives it the option to acquire a 17 percent stake in the firm down the road as well as two board seats—an unusual transaction for a buyout firm that prefers to own



a portfolio company outright. “Who knows where they could take this?” says one investment banker. “It’s not inconceivable that they could begin providing at least advisory services for a fee to Kodak now, and maybe develop more businesses for which they traditionally had to go to Wall Street. This is not a time to rule out anything.”

Martin’s own firm, which he didn’t want to name publicly, is already investigating ways to be its own banker. One option is to raise a new fund that would invest in bonds issued not only by its own portfolio companies (it already does that) but for other businesses as well. Instead of turning to Citigroup, the CEOs of those companies could cut out the middleman and come straight to Martin’s firm for capital. “Why do we need to have Citigroup as an intermediary?” Martin wonders, a small smile playing around his mouth. The smile broadens. “We can be our own intermediary; we have the know-how, the contacts. The technology exists to help us. And we have the kind of capital that we can put into these deals in a way that Citigroup obviously wasn’t able to manage to do sustainably.” In the postcrisis era, when Goldman Sachs’s brand name can be tarnished and an upstart bank like Jefferies can recruit a team of star bankers, why shouldn’t a KKR or a Blackstone transform itself into Wall Street power player? “If we do our own due diligence and say we’re putting our own money in alongside those of others, wouldn’t that be a selling point?” Martin demands. “I’ve got to believe it. After all, while Citi would only be interested in selling it on to the next guy, we’d be there for the long haul.”

Buyout funds may be pondering this kind of move, but at least one hedge fund began pursuing such a strategy in the immediate aftermath of the crisis. By late October of 2008, Ken Griffin, the founder of Citadel Investment Group, one of the world’s largest and most influential hedge fund empires, was preparing to take advantage of the carnage he was witnessing. True, Citadel’s own funds were being hit by losses, but Griffin saw these as being short-term hiccups. He was looking ahead to the day he believed Citadel would emerge as a new kind of player on Wall Street. The firm’s trading and market-making activities meant that it already

commanded as much as 4 percent of all trading volumes worldwide on any given day. Now Griffin figured he could put his firm on the same level as JPMorgan Chase or Goldman Sachs, and himself on the same level as Lloyd Blankfein or Jamie Dimon by leveraging that clout and market knowledge and becoming an investment bank in its own right.

Griffin confided his plans to Rohit D'Souza and Todd Kaplan, two Merrill Lynch alumni. Citadel's market-making division, a business that both offers to buy stocks, bonds, and other securities at a bid price and maintains an inventory of them to sell at the posted ask price, was the key. "It was clear to all of us early on in these discussions that the market-making business could serve as a hub for a new kind of investment bank," Kaplan recalls. "We started out by discussing what might be possible, and it quickly evolved into us working on a full-fledged business plan, on the way to add client-facing bankers to that existing model." Before the end of the year, Griffin, Kaplan, and D'Souza were all convinced: Citadel had a chance of becoming one of the great investment banks on Wall Street, they agreed. So what if it was technically still a hedge fund?

All three believed that the only way to try to launch a viable competitor to the existing investment banks, with their still-impressive (if battered) brand names, was to return to Wall Street's roots. Kaplan's vision was of an investment bank that would serve as an intermediary, not a principal; one that earned fees rather than using its own balance sheet to generating a return on equity. No more chasing Goldman Sachs, he decided. "I watched the big firms lose their way when it came to client service, and I don't want that to happen again." Whereas the classic investment banks had been sustained by the stream of revenues coming from high-margin trading operations up until Mayday in 1975, this twenty-first-century reincarnation of that model would be financed by the high-volume market-making business. (It didn't hurt that Citadel itself was making some \$1 billion a year from the newfangled high-frequency trading platform it had built, a way to make even more money from rapid-fire computerized trading.) It was just a new twist on an old theme. some Wall Street veterans suggested as the

details began to leak out in the summer of 2009. But the one thing that stunned everyone was that the initiative was coming not from someone such as Costas or Moelis but from a hedge fund. From a hedge fund in Chicago to boot.

“I just don’t see it,” says Roy Smith, a finance professor at New York University and a former partner at Goldman Sachs. “How do they imagine they can achieve overnight what it took firms like Goldman more than a century to build?” Those who had studied Griffin as he built up a \$15 billion hedge fund empire in less than two decades didn’t want to underestimate him. “If he sees an opportunity, it’s there,” says one former senior colleague. Even though D’Souza and Kaplan had both bowed out by early 2010, the New York-based business was still growing and already working on trades for other hedge funds—something naysayers said could never happen—and had won mandates to advise corporate clients, including a bankrupt casino operator. Griffin sees himself not as chasing Goldman Sachs but rather as becoming Goldman Sachs. “I do believe in the next five years we will have created one of the great sales and trading operations” on Wall Street, he said in an interview.<sup>7</sup> And they will be able to do so, Kaplan argues, because returning to business as usual is neither possible nor wise for Wall Street as a whole. “This is a whole new ballgame.”

Regardless of whether Citadel succeeds with its plan to graft an investment bank atop a hedge fund, Kaplan has come to believe that simply trying to emulate the Street’s biggest and most successful firms was at the root of the crisis. Wall Street’s institutions should have pondered whether or not they had a real competitive advantage in the businesses they were entering, he says, as well as a real understanding of the risks as well as the potential for those businesses to boost their ROE. “The need to make a return on the balance sheet was all-important, but then the balance sheet became the tail wagging the dog,” Kaplan says. But while he believes a more classic model is the way of the future, he had trouble recruiting bankers who shared that vision, despite widespread layoffs across Wall Street. His in-box rapidly filled with résumés from displaced bankers with blue-chip pedigrees. few of

whom “get it,” he explained. “When guys I talked to about a job asked me what our ROE target is, I had to explain we’re not going to be managing the business that way.”

Perhaps the biggest question about Wall Street today isn’t the shape of the winning institutions of the future, but whether or not its denizens will ever manage to internalize that ethos. Certainly, government policies and new regulations won’t succeed in swaying Wall Street’s hearts and minds.

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### Chasing Goldman Sachs?

A blizzard was blanketing the East Coast of the United States with snow on the day in late January 2011 that Phil Angelides and five of his nine fellow members of the Financial Crisis Inquiry Commission filed into a small conference room in Washington, D.C., to announce their findings. More than a year after beginning their inquiry—and months after the first package of financial reforms had become the law of the land in the shape of the Dodd-Frank Act—Angelides brandished the 545-page paperbound report in his left hand, pronouncing it to be the result of an exhaustive investigation into a financial system that had altered beyond recognition over the course of three decades until it was one that was no longer capable of discerning the course of action that was in the best interests of all the system’s stakeholders. “The captains of finance and the public stewards of our financial system ignored warnings and failed to question, understand, and manage evolving risks,” he said. “Theirs was a big miss, not a stumble. A crisis of this magnitude need not have occurred. To paraphrase Shakespeare, the fault lies not in the stars, but in us.”<sup>1</sup>

The six members who had signed off on the report and now appeared before journalists to defend it argued that the crisis had been avoidable. Giant failures among regulators were accompanied by massive missteps and ethical shortcomings on the part of Wall Street itself, they declared. The financial system, they concluded, had become “a highway where there were neither speed limits nor neatly painted lines” and on which Wall Street firms had been conducting a giant game of chicken in the high-speed Porsches purchased with their lavish bonuses.<sup>2</sup> Group think dominated, a

majority of the FCIC members had recognized: instead of questioning what their rivals were doing, Wall Street firms blindly mimicked them in hopes of generating a few extra pennies a share in earnings each quarter. “A crisis of this magnitude cannot be the work of a few bad actors,” they proclaimed scornfully, dashing the hopes of those who had tried to pin the crisis on a handful of rogue mortgage lenders and their accomplices at now-defunct financial institutions rather than conclude that there was a systemic problem that needed to be addressed.<sup>3</sup>

But it wasn't the blizzard that kept the other four members of the FCIC from attending the press conference. In fact, while Angelides and five other panelists (including former CFTC chair Brooksley Born) made their case for Wall Street's culpability in the financial crisis, their report sparked not one but two separate formal dissents by the other members of their group—including disagreement over even including the phrase “Wall Street” in their conclusions.

Many critics of Wall Street had hoped that the FCIC would produce the contemporary equivalent of what became known as the Pecora Report, named for its primary author and chief counsel of the post-1929-crash investigation, Ferdinand Pecora. But while Pecora's findings were so damning that he won the title of “the hellhound of Wall Street” for his relentless pursuit of the culprits who had undermined the integrity of the financial system, the FCIC was hampered from the start by the kind of sharp divisions of opinion of the kind discussed in [chapter 7](#). Ultimately, these couldn't be reconciled: some FCIC members could not or would not accept the idea that Wall Street was a prime mover in the near-cataclysm of 2008. Republican members fought, ultimately unsuccessfully, to have the words deregulation and shadow banking system removed from the report as catalysts for the crisis; in their eyes, the problem was tied to the role of Fannie Mae and Freddie Mac that encouraged reckless risk taking by mortgage lenders, as well as related government policies.

In order to reform the financial system—or any kind of system—you have to reach a broad agreement on what's wrong with it and what needs fixing before you start tinkering in an attempt to fix the

problem. As the ferocious behind-the-scenes arguments between members of the FCIC showed, no such agreement seemed possible. While the Pecora hearings of 1933 and 1934 not only offered tremendous public drama but also generated widespread public support for sweeping new securities laws—including the Glass-Steagall Act that mandated the separation of commercial and investment banks—the FCIC hearings passed with relatively little commotion. As for the idea that the FCIC’s conclusions might pave the way for thoughtful consideration of what kinds of reforms might be necessary for the financial system to continue functioning smoothly into the twenty-first century, well, the divisions among its members were enough to put that to rest.

Perhaps some of the skullduggery that was unveiled by the FCIC—Angelides told reporters that he has referred several names to law enforcement—will result in criminal charges. Perhaps, just perhaps, some of those charges will stick and someone will be found criminally liable for part of the crisis. But without any kind of consensus on what caused the financial crisis, the odds of reaching agreement on what to do to prevent a recurrence were sharply diminished. Now, with the crash in the earliest stages of becoming part of Wall Street’s past history rather than its current reality, the odds that another crisis will rock the financial system to its core are creeping higher once again.

### Back to the Brink?

The subtitle of this book, *How the Masters of the Universe Melted Wall Street Down ... and Why They’ll Take Us to the Brink Again*, warns of what happened when Wall Street couldn’t govern itself and regulators weren’t capable of reining in the Street’s worst instincts ... as well as what will happen if we don’t find a way to do so in future. Optimists wondered why on earth that would happen again, given how close the whole system had come to complete collapse in 2008. “I think that some of the lessons will stick with us for quite a while, particularly as long as the leaders



who had to make the decisions about survival and who came within hours of filing for bankruptcy are at the helm and are in a position to see future problems in the early stages, before they become too big to control or contain,” says one senior Wall Street veteran familiar with the thinking of leaders like Lloyd Blankfein and Jamie Dimon.

What optimists overlook is the fact that the conundrum at the heart of the way Wall Street works remains unchanged. As has been true for at least the last three decades, the pressure is on every bank and investment bank to identify and squeeze the last drop of profit out of each successive new product or strategy in order to maintain returns on equity at acceptable levels. Simply doing well isn't enough if one or more of your rivals is doing better. And there remain few incentives to ask the “risk question” along the way, to inquire, what happens if we all have it wrong?

Nor are there, as yet, any incentives for firms like Citigroup or Morgan Stanley to put the priority on running the money grid safely and efficiently in the interests of all stakeholders, not simply themselves and their shareholders, even though there is no evidence that the two objectives are completely incompatible. For now, CEOs at Wall Street firms may have been scared straight, but the system in which they operate and that doles out rewards to the overachievers among them and the punishments to those who lag behind is still the one that contributed to the crisis. So what is to stop a Wall Street firm from once again focusing almost monomaniacally on what is in its best interest, seeking out ways to earn even higher returns and recruit the top talent and offer the most enticing perks, paying little heed to the consequences?

Clayton Rose, a former investment banker who now guides students at the Harvard Business School through case studies of crisis and failure on Wall Street, is one of many veterans of the Street who worries that the reforms to date have been too cosmetic to effect real change. “There is a natural tendency to forget and to let self-interest rule the day,” Rose says. When Long-Term Capital Management collapsed in 1998, requiring Wall Street firms to chip in \$3 billion to “ring fence” that problem. “we thought it was the

end of the world,” Rose recalls, “Now, that sum looks like tipping money, and the problem looks, in hindsight, completely containable.”

Anyone looking for clues as to why Wall Street tends to self-destruct periodically, in large part due to its own foolishness, could do worse than pay attention to some of the details of the LTCM rescue package. Investment banks were asked to chip in \$250 million each to save LTCM and thus the financial system; the fear was that a chaotic collapse of the hedge fund would pull its counterparties—the Wall Street firms that had done business with it—into the abyss one after another due to the magnitude and complexity of the counterparty relationships associated with its derivatives markets dealings. One after another, the big Wall Street firms agreed to participate in the bailout, with the sole exception of Jimmy Cayne of Bear Stearns, who flat-out refused. Merrill Lynch’s then-CEO, David Komansky, demanded to know what Cayne thought he was doing. “When did we become partners?” a furious Cayne shot back.<sup>4</sup>

That attitude was still one of Wall Street’s biggest problems a decade later, when then-Treasury Secretary Hank Paulson tried to drive home to Wall Street’s leadership the message that they had a common interest that transcended their individual corporate self-interests during the fateful weekend in September 2008 that determined the fate of Lehman Brothers and Merrill Lynch. According to accounts of the meetings that took place at the Federal Reserve’s headquarters in lower Manhattan, the assembled bankers pressed Paulson to structure a bailout for Lehman. For his part, Paulson tried to get them to shoulder some of the responsibility for what all were finally prepared to acknowledge was a systemic failure, and thus play a role in preventing a collapse that could have systemic ramifications. “You have a responsibility to the marketplace,” Paulson told them.<sup>5</sup>

But once more, they declined to acknowledge that collective responsibility—whether they couldn’t agree that they had a common responsibility in the first place (the concept that Cayne had so adamantly rejected in 1998) or whether they couldn’t act on

it because of their own internal woes is unclear—and nothing happened. Lehman filed for bankruptcy protection, and the intermediary function at the heart of the money grid came within hours of not just freezing but collapsing altogether. “It’s impossible to understate the sense of fear people in that room felt—they were going into the unknown,” says one former top banker familiar with the weekend’s events. He went on to compare it to the fear among scientists at Los Alamos just before the atomic bomb was tested for the first time in the early summer of 1945. “For all these guys knew, they were going to set fire to the earth’s atmosphere when they set off the first nuke, and some of us wondered if we’d blast our financial system back to the days of the horse and buggy and the quill pen,” the former banker says. “As it turns out, after Lehman, the government stepped in and did everything it could to make sure we never had to find out.”

That attitude on the part of Wall Street—me first, me foremost, and only me—remains a problem today. They may have a common interest in fending off regulation or other outside interference, but Wall Street’s firms have always seen a rival’s woes as their opportunity—and vice versa. During the boom years, all of them had chased Goldman Sachs with zeal, thinking of little more than grabbing the biggest possible share of whatever fee-generating business was available, without considering the risk created to the system by the fact that they and their peers were all doing the same thing at the same time. Each firm on Wall Street put its own interests ahead of those of the system and paid attention to what its rivals were doing only insofar as those activities affected its own ability to grab market share and profits. (They certainly weren’t thinking of the impact of so many firms following the same business strategy might do to the sustainability of that strategy, their business model, or the system itself.) The question continues to haunt some on Wall Street as well as many regulators who have used the events of 2008 to think more broadly about what went amiss—not just the proximate causes (why were so many subprime loans issued and repackaged into CDOs?) but more complex and far-reaching ones. Why was it that no one, even among those who

perceived the risks, thought to holler “danger”?

## The Utility and Fiduciary Duties

To whom or what do the institutions at the heart of the money grid owe their primary loyalty? Should they have acted as partners to save the system, even at the last moment? Or, by 2008, was that kind of action so unimaginable that it had become impracticable? Without understanding how the denizens of Wall Street react to those questions, it’s impossible to address the logical corollary: Will anything stop Wall Street from returning to behaving recklessly once the crisis is past, even with more restrictive rules and regulations governing its behavior? What happens once the government is no longer peering over the shoulders of financial institutions that are now larger and more systemically important than ever—that have become, in popular parlance, “too big to fail”?

Unfortunately, in the absence of major changes to the DNA of these giant legacy institutions and their inhabitants, the question isn’t whether but when, as John Mack tacitly admitted in his *cri de coeur*. These firms have strong incentives to return to business as usual, and little motivates them to seek out a new business model, even if that new path might put less stress on the system as a whole. True, the advent of the Dodd-Frank Act means that regulators are now required to implement its provisions, a process that will mean finding ways to constrain some kinds of behavior on Wall Street. But regulation isn’t a panacea.

Even if Dodd-Frank did a perfect job of identifying the risks to the financial system—a claim that almost no one is trying to make—the legislation contains, as several members of Congress have pointed out, multiple unintended consequences for each one of its 2,500-plus pages. No one, for instance, wants Wall Street to curtail the “good” kind of risk taking that the money grid requires in order to fulfill its role in the economy—that would backfire, creating a system dysfunctional in a different way. Classic utilities such as gas

and electric companies may be economically and socially useful, but they aren't very profitable. One reason many on Wall Street recoil at their industry being characterized as fulfilling a utilitylike function is the fact that utilities' profits are typically overseen and its fees approved by regulators fearful that businesses running effective monopolies will take advantage of their customers.

Wall Street doesn't need to worry about being allowed to earn only a regulated rate of return, like their counterparts in other utilitylike businesses. To date, policy makers of all stripes acknowledge that Wall Street isn't a typical utility even if it exists to fulfill a social good of some kind, and that treating it as if it were a power or water utility might prove counterproductive. That is why they have so far tilted in the direction of letting the industry regulate itself, constrained only by the rules passed and overseen by organizations such as the Securities and Exchange Commission and the Office of Thrift Supervision. The problem is that as the financial system became more complex and more oligopolistic—by 2000, the ten largest banks held 40 percent of all commercial banks' insured deposits, double the level recorded in 1980—those organizations had become less rigorous in their enforcement of whatever rules existed. Meanwhile, the institutions themselves were paying attention to an altogether different set of incentives.

Unless you work for or invest in a power company, you can probably go through your entire life without becoming familiar with the phrase regulated rate of return. Similarly, unless you happen to be a corporate governance activist, a securities lawyer, or a corporate director, odds are that you've heard the phrase fiduciary duty only in passing and dismissed it as one of those bits of jargon that is just academic. That's only half true. While it is jargon, understanding the real meaning of the phrase is essential to grasping what happened on Wall Street and why it may happen again. The concept is straightforward enough: the idea that an individual or group has an overwhelming duty to another group that overrides every other possible interest, including self-interest. It's the same kind of relationship that a lawyer owes to his client, the kind that pops up during television crime shows when a lawyer

is put in an impossible bind when he can't publicly disclose information that would solve a murder because that information was entrusted to him in confidence by a client.

That is the level of duty that every director of every corporation owes to the company's shareholders. Every decision that a director makes must—legally—be in the best interests of those shareholders; that extends to the selection of the company's CEO. The CEO and the company's employees, in turn, are bound by the same obligation. The smaller the number of shareholders and the greater the extent to which those shareholders are the same individuals who serve as managers and employees—as is often the case in a startup company or in a private partnership—the more likely it is that everyone's interests will coincide. When a Wall Street firm is run by a CEO who is also a major shareholder—not just a shareholder but one who owns an outsize slice of the business—the odds are greater that that individual will be hyper-vigilant about the kind of risks and the nature of risks the company is taking. The greater the extent to which the people taking the risks identify emotionally with the company whose future they are putting at risk, the more they are likely to second-guess themselves. As investment banker John Costas has already noted, “The partners' capital was on the line; we thought about the long-term implications of all the business we pursued; we knew that our long-term profits depended on being responsible stewards of our capital in the short term.” If a potential source of new profits seemed too risky over the long haul, Costas says, the partner had an incentive and even a duty to speak up and the ability to make his voice count, as one of those shareholders in whose interests the company was legally required to function. It was that kind of context that enabled Goldman Sachs to describe itself—with a straight face—as being “long-term greedy.”

But what happened if the Wall Street firm's major investors weren't the firm's partners, those charged with its day-to-day operations? Even at those financial institutions where employees were, collectively at least, major owners—Lehman Brothers among them—the culture had changed over time. Few investors saw

themselves as long-term holders of any company, even the one they worked for at a given point in time. With the freedom to sell their stock in their publicly traded companies whenever they chose came an intensified focus on short-term profits. Even when restrictions were imposed on their ability to sell, many investment bankers found ways to hedge the risk that the value of their company's stock might decline; it was simple prudence. Accustomed to putting such strategies in place for their clients, doing so for themselves was a far simpler matter than trying to withstand the pressure to take on additional risk. Hedging gave them a way to have their cake and devour it at the same time: investment bankers could pursue the maximum profits possible (and thus the maximum possible bonus) and still limit their own losses to some extent. That helped them cope with the demands of their outside investors, all of whom seemed to have the clout to win an audience with an investment bank's CEO or chief financial officer—or even its directors—and influence decisions on how much risk to take in a way that a mere employee rarely could.

The very nature of Wall Street institutions as publicly traded companies has emerged as one of the chief problems, something that is perhaps a bigger issue in determining the health of the Street than the specific businesses targeted by the Dodd-Frank Act. If Wall Street firms came to rely heavily on proprietary trading, allocating big chunks of capital to create hedge funds and private equity funds, and seeking to develop increasingly complex and opaque derivatives, it is because these are the products and services that command the highest rates of return. Being accountable to a large number of outside shareholders came to be seen on Wall Street as a justification for pursuing the most profitable businesses, at all costs—and for chasing Goldman Sachs. In exchange for acquiring a larger and more stable capital base—the rationale for going public—investment banks found themselves with a new kind of burden. “The culture at Goldman Sachs began to change, almost to the day we finally completed the IPO,” says one former Goldman partner. “More and more the discussion around new business opportunities wasn't about weighing the merits, risks, and profitability of the

business, but just about the profitability. There was still room to argue, but every day it seemed as if that was more futile.”

Before Brad Hintz moved to Alliance Bernstein and began to track Wall Street’s investment banks from the perspective of a research analyst, his job had been to communicate to investors that Morgan Stanley (in whose investor relations group he toiled) was doing everything it could to maximize profits and the all-important return on equity. As profits and outsize ROE levels became harder to earn, that message was simply that Morgan Stanley pledged to deliver “superior” returns. Increasingly, outside shareholders hearing this pledge defined the bank’s fiduciary duty to them as earning and distributing the largest profits possible in the shortest possible time frame.

The pattern was the same across Wall Street. Each fiscal quarter, bankers at publicly traded investment banks scrambled to beat their own results of the previous three months to keep investors happy. And those big investors themselves—managers of pension funds, hedge funds, and mutual funds—weren’t shy about making known their demands for ever-higher rates of growth in profits and ROE. One former Citigroup executive says, “That just didn’t happen within a private firm. The pressures were there, sure, but there was more of a likelihood that someone worried about the long-term impact of a short-term move in market share could get a hearing and be heeded.”

Other corporate scandals have rocked the United States in recent years, many of them involving managers who violated the trust of shareholders in the pursuit of personal profit. Some have revolved around the sale of faulty products; others, fraudulent accounting schemes. Ironically, no such betrayal can be cited as a cause of the financial crisis. Rather, as Leo Strine, vice chancellor of the Delaware Court of Chancery (a place where a great number of shareholder lawsuits are filed and adjudicated), points out in one of the most damning postmortems yet published on the Wall Street crisis, directors and managers were, if anything, too responsive to demands from their investors.

“The more pressure business leaders are under to deliver high



returns, the greater the danger that they will violate the law and shift costs to society,” Strine concludes.<sup>6</sup> As of this writing, no one has been convicted of any criminal offense in connection with the crisis, a state of affairs that Oscar-winning documentary maker Charles Ferguson publicly deplored, to tremendous applause from the audience, when accepting his Academy Award for *Inside Job*, a film about the near-meltdown. It may be, as Strine cautions, that on today’s Wall Street, firms “are free to engage in behavior that is socially costly without violating” the letter of the law.

To give the bankers at firms such as Merrill Lynch and Lehman Brothers their due, they don’t seem to have set out with the explicit goal of destroying their firms. Rather, they lacked the imagination or intellect to realize what could happen down the road, or the skill to protect themselves and their firms from the fallout. But even if they had consciously behaved foolishly, a savvy lawyer could still argue—legitimately—that they were acting in the fiduciary interest of their investors. As long as those investors continue to believe that a firm’s board and management are pursuing their best interests when they embark on strategies to maximize short-term profits—even at the expense of prudence—that is what those Wall Streeters will do. Missing from this equation is the kind of ethos that Dennis Weatherstone, former chairman and CEO of the firm then known as J.P. Morgan & Co., once tried to instill in the aggressive bankers under his dominion.

Weatherstone saw clearly the risk that one weak player within the system could destabilize Wall Street as a whole. Even if Morgan managed its own risk prudently, that couldn’t insulate it from a firestorm, he realized. His realization was sparked by the rapid growth of the derivatives market, involving complex customized products; left to grow unchecked, Weatherstone feared what might follow since the system was only as strong as its weakest link. “If you are driving along the motorway in a smart Maserati and see an old car belching fumes, it’s no good just driving on,” Weatherstone told J.P. Morgan’s young derivatives bankers in the early 1990s, according to Gillian Tett’s chronicle of the bank’s adventures in the derivatives world. Those fumes might signal a problem with the car

that could become a problem for everyone else on the highway. “If that old car crashes, it could wipe out the Maserati, too.”<sup>7</sup>

But words of wisdom from such elder statesmen fell on ears that became increasingly deaf with the passage of years. As it became harder to make money by sticking to low-risk lines of business and plain-vanilla transactions on behalf of clients, the pressure to venture further into riskier trades involving the bank’s own capital mounted. Often, that dovetailed with the clients’ interests. For instance, proprietary trading was simply an outgrowth of market-making; the process of allocating the institution’s capital to buying and selling big blocks of securities on behalf of clients. Those clients wanted the traders with whom they dealt to assume the business and financial risk of holding securities on the trading-desk balance sheet until needed by a client; they didn’t want to be told they’d have to wait until the trading desk could line up a list of clients willing to take on the other side of the transaction. A bank that dithered about using its own balance sheet would lose business to rivals—the intolerable scenario. These days, no Wall Street firm can function only as a pure intermediary, veterans insist.

Some firms—notably Goldman Sachs—proved extremely adept at deploying their own balance sheets to maximum advantage. Others, faced with the harsh reality that raking in enough in profits to keep their shareholders happy via traditional intermediary businesses was no longer possible, concluded they would have to follow Goldman’s lead. And they’d need to seek out other sources of large profits—even if those profits came accompanied by large risks—in order to stand a chance of offering their own investors a return on equity that came close to what Goldman Sachs could deliver. That’s what Merrill Lynch and Citigroup were doing when they set up their CDO creation machines: taking risk to maximize shareholder value. The only consideration that would have weighed more heavily than that fiduciary duty would have been an outright and explicit ban on their involvement in the CDO business—a kind of blanket prohibition that remains unlikely today. Certainly, it was utopian to expect them to voluntarily refrain from taking on those risks. since that meant relinquishing the business—and the fees—to

their rivals. That would have been foolish on a personal level, especially once Phil Purcell's ouster from the helm of Morgan Stanley in a shareholder-led coup reminded every other Wall Street CEO of the career risk they were running by not pursuing the maximum possible profit.

What manager or board member, forced to choose between the possibility and even the probability of earning profits for investors in exchange for taking on some risk and the certainty of losing those profits to a rival by focusing too much on the possible risk would, in the absence of some flashing warning lights, decide to walk away from a deal? How could they feel they were on sound legal footing? "There was evidence that these businesses were profitable; there was no evidence that they were built on quicksand," argues one lawyer who represents one large legacy institution. "When there is no evidence of any E. coli or other tainted food, should a restaurant stop serving its customers steak or hamburgers" simply because history has shown that beef can be infected with the E. coli bacterium?

Certainly, John Mack didn't see the risks he was taking on so eagerly when he succeeded Purcell as CEO of Morgan Stanley. Some of Mack's earliest meetings were with the managers of hedge funds that were generating a growing proportion of Wall Street's revenues and profits. His mission was to reassure those managers that even though Purcell had favored sticking to the old vision of Wall Street as an intermediary, Mack had no problem with Morgan helping out its hedge fund clients by serving as a counterparty and taking balance sheet risk. As Charles Gasparino chronicled in *The Sellout*, his narrative of the meltdown, one of those with whom Mack met was Stanley Druckenmiller, manager of Duquesne Capital and a former colleague of the legendary George Soros. Morgan Stanley had what it took to replicate Goldman's trading prowess, Mack told Druckenmiller. "The old agency model is gone, and it's never coming back," Mack added. "The proprietary model is here to stay."<sup>8</sup>

As long as fiduciary duty remains a paramount consideration for Wall Street institutions, how possible is it to even think about

reforming the world in which these firms operate? The former Citigroup executive laughs at the paradox that creates. “Well, that’s the 64-trillion-dollar-question. You’d like to think that the banks’ directors and top managers would see that their fiduciary duty would stretch to include the well-being of the financial system as a whole, since without a Wall Street, who cares who’s on top of the heap? But then, where is the evidence that that is happening?” Henry Kaufman, the onetime Salomon Brothers economist who won the nickname “Dr. Doom” for predicting the painful surge in interest rates in the 1970s and early 1980s, fears that there is only one logical outcome, even in the wake of the crisis. “Incentives to leverage [and risk taking] always will overshadow prudent judgments.”<sup>9</sup>

The late Fred Joseph agreed with that assessment. “It’s a bit inevitable, because that’s human nature at work,” he argued. “At least, it’s the risk we all run, and hopefully we learn over time not to let our animal spirits run away with us. But it happens.” Another Wall Street veteran, Peter Solomon, suggested to the FCIC that they at least revisit the merits of old-style Wall Street structures like the separation between risk-taking businesses and consumer-oriented ones (formerly mandated by the Glass-Steagall Act) or the private partnerships, as a way to limit the extent to which risk taking becomes destructive. “Our firm is a throwback to the era of the early 1960s when investment banks functioned as agents and fiduciaries advising their corporate clients,” he said. (The italics are mine.) “We do not act as principals or take proprietary positions. We do not trade and we do not lend.” That model, he suggested, has its advantages.

Perhaps the biggest problem of all is that by now, the current way of thinking about their business has been encoded in Wall Street’s DNA. Once a Wall Street institution begins thinking of a 10 percent return on equity as unsustainably low and 20 percent as an acceptable number; once it accepts a certain set of growth and profitability targets as reasonable, it changes the definition of what is normal and what is excessively risky. Once it becomes accustomed to using a large balance sheet to help generate those

profits, once it relies on “financial ingenuity” to generate income, then it ceases to place as much value on the businesses that it once viewed as core to its *raison d’être*. And it becomes as hard for it to change its *modus operandi* as it is for a supertanker to change course on a dime.

## Policing the System

Wall Street’s instincts are pushing it in one direction, one that leads it back to the brink of the abyss as the need to earn profits pushes firms to take larger and larger risks. “Déjà vu is just around the corner,” argues Leo Tilman, a risk management specialist. Back in September 2009, a year after the crisis peaked, Tilman reflected on what might lie ahead and predicted, accurately, that “calming markets and competitive pressures of fully commoditized financial businesses will compress margins and fees” once again.<sup>10</sup> (Within nine months, Wall Street’s earnings would be visibly under pressure, albeit for slightly different reasons, such as client risk aversion.) Tilman predicts the vicious cycle will resume, with Wall Street’s intermediaries taking risks they don’t always understand and that they are rarely able to manage.

After decades working on Wall Street, Ralph Schlosstein, the CEO of boutique investment bank Evercore, has formulated a theory for what happens on Wall Street. In a normal year, the broad U.S. economy grows at a nominal pace—one that includes the rate of inflation—of about 5 to 6 percent. Yet somehow, as Schlosstein points out, investment banks consistently have managed to earn returns of between 17 percent and 20 percent on their shareholders’ equity. In other words, their ROE has been anywhere from 11 to 15 percentage points higher than the rate of the growth of the economy. “If you’re in a business generating that much more in returns than is being provided by the economy, you either have to find a way to give the excess capital you are making back to your shareholders [through dividends or stock buybacks] or you figure out some way to [use and ultimately] lose that extra capital by

involving yourself in some new business,” Schlosstein says. Wall Street, he believes, has proven itself a master of the latter. “We lost money in the energy markets, in the emerging markets, in junk bonds, and now by securitizing subprime assets.”

That this has been possible for so long is a result of two separate and converging trends on Wall Street. The first is the culture of Wall Street, described earlier in this chapter, and its increasing emphasis on generating the maximum rate of return for its shareholders on a short-term basis. The second is the kind of laissez-faire behavior on the part of those regulatory agencies whose mandate it was to rein in these institutions when they crossed the line and began to imperil the health of the system as a whole. Had it been possible for a Wall Street CEO to forgo a source of potential profits he believed to be too risky without jeopardizing his career; had Wall Street’s culture been less of a “beat-thy-neighbor-at-his-own-game” affair and instead one where bankers worried that risk were taken seriously rather than escorted to the front doorstep of their companies, an investment bank might have been a less exciting but more stable place to work. But that isn’t the case. So, in order to stop Wall Street from repeating its errors, we have two options, one of which seems impossibly complex; the other, deceptively straightforward.

The seemingly straightforward one is also the most appealing on a visceral level, especially to legislators who have to go back and face furious constituents at the polls: just slap more rules on the industry and throw the book at anyone who steps out of line. It’s one that has attracted supporters from the White House (a furious President Obama made his first sweeping regulatory reform proposals in early 2010 in the immediate aftermath of the 2009 Wall Street bonus system) to, oddly enough, Wall Street itself. “Regulators have to be much more involved” in keeping an eye on what his firm and its rivals are getting up to, John Mack declared at the same time he made his astonishing plea for those same regulators to just jump in and stop him from behaving recklessly.

That was quite a statement, given that Mack, like his fellow Wall Street leaders, more traditionally has been an advocate of less

regulation, or, indeed, self-regulation. Nonetheless, it's a school of thought that, in one form or another had been gaining traction even before the president first introduced the proposals that would take formal shape as the Dodd-Frank Act, if only because it manages to shift the burden of responsibility from Wall Street altogether. "When you are sitting within one of these institutions, it's hard to even grapple with the concept of systemic risk," says Evercore's Schlosstein. "You are so focused on your own institution and how it is doing relative to its peers that it's hard to take enough of a step back to see the whole picture."

He grapples for the right analogy, one that will illustrate the kind of risk that is involved and the need for someone beyond Wall Street to shoulder the responsibility. "Imagine," he says, "that there's a wall, and on one side of it is someone with a giant canister of gasoline. On the other side of it is a guy with a giant match. Neither of them can see the other or know that the other is doing something that places them both at risk." A regulator, Schlosstein explains, is the only person in a position to not only see what both of these individuals are doing but also understand whether the gasoline is being stored safely so that no lit matches will cause it to explode, or whether the person on the other side of the wall is playing with his matches in a way likely to cause a conflagration.

"In banking, we train people to react to a problem by finding a way to make money out of it," Schlosstein points out. That's what hedge fund manager John Paulson did when he became a billionaire after identifying the weaknesses in the mortgage and CDO markets and finding ways to exploit them in the financial markets. He believed that subprime lending, poor structuring of CDOs, excessive leverage, and inadequate capital were about to wreak havoc on Wall Street, but his instinct wasn't to warn Lehman or Bear Stearns or to shout his findings from the rooftops. Rather, Paulson set out to sell short the securities he believed would suffer most in the crisis, just as, in the depths of the crisis, he became an active buyer of stock in big "legacy" financial institutions, betting that the survivors would rebound. That bet has paid off, too. Paulson, like any other short-term investor, is risk-agnostic—as long

as the risks he take pay off, he's happy to be at the party in any capacity.

Mack and Schlosstein are right when they argue that more active and more thoughtful regulation of the money grid is needed to stop a repeat of the events of 2007 and 2008. But for all the lavish praise President Obama and others heaped on the Dodd-Frank Act when it was passed in the summer of 2010, that package of proposed reforms—all 2,500 pages of it—is no panacea. Harvey Pitt, former head of the Securities and Exchange Commission and now the CEO of a Washington-based consulting company, Kalorama Partners LLC, argues that there are three fundamental flaws with the legislation, aside from all the unintended consequences that we can't yet quantify or even identify.

Firstly, the new law doesn't require any entity whose dealings could have a big impact on the financial markets to provide an ongoing stream of data on their operations to regulators, so that the latter can monitor risk. (A new body of federal regulators can monitor or unwind any systematically important financial firm, but that's not the same thing, Pitt points out.) "We've got a problem today in that we regulate people by looking at what they were born as, rather than what they have become over time, and that leaves a lot of regulators without enough knowledge of how the firms they monitor actually can impact the financial markets," Pitt says.

Not to mention the fact that—at least hypothetically—should Goldman Sachs one day decide that it's fed up with having federal banking regulators peering over its shoulders and second-guessing all its decisions when it isn't even a "real" deposit-taking bank, the firm could opt to bid farewell to its banking license and reinvent itself as something else, thus escaping from some of the regulatory scrutiny now following it. That may not be likely or even probable in the current climate, but it's not impossible, particularly a few years down the road.

Then, as regulators are already aware, there is the fact that new kinds of entities, such as hedge funds, can have a disproportionate impact on the health of financial markets and yet go largely unregulated. Several years elapsed between the LTCM implosion in



1998 and the first successful effort to get the biggest hedge funds to begin disclosing even rudimentary details of their operations to regulators.

That's not all, Pitt says. Once regulators have that information or the raw data, it needs to be properly analyzed and shared efficiently with other agencies, "so that regulators and those in the markets themselves can factor it into their decision making." Finally, he says that some kind of circuit breaker mechanism needs to be put into place that will get government regulators "to stop, look, and listen to what is going on and prevent the trend from continuing and magnifying until we can understand what it is that is really taking place and identify any systemic threats." These three ingredients, if combined, would have contributed to regulatory reform creating a nimble system able to respond to financial market crises as they are building, rather than after they have begun to claim casualties, he believes. "Together, these would give us some level of comfort that the next crisis will be manageable."

Rather than being nimble and flexible—the ideal, in the eyes of Harvey Pitt and many of his former regulators—the reforms enshrined in the Dodd-Frank Act tend to be more static rules. The bill as a whole, argues Allan Meltzer, professor of political economy at Carnegie Mellon University "is a terrible bill. Yes, it corrects a lot of problems that are of some importance to someone, but it doesn't correct real causes of the crises" such as the "too big to fail" issue and the moral hazard that accompanies it, he says. Static rules tend to be those created solely in response to the last crisis, such as Glass-Steagall in 1933, which responded to the problems of risk-taking by deposit-taking financial institutions by requiring the rigid separation of the two kinds of institutions into investment and commercial banks. That did help to stabilize the financial system—until it didn't anymore. Under siege for the last half of its sixty-six-year existence, Glass-Steagall ultimately wasn't flexible enough to respond to the changing realities of the banking system—specifically, the need of financial institutions to consolidate in order to become more efficient in a globalized, fast-moving, and capital intensive business.

The Dodd-Frank Act does address some important issues. It provides for the creation of a systemic regulator and creates a Financial Stability Oversight Council that will possess sweeping powers to investigate any potential risk to the health and well-being of the financial system. It intensifies the oversight of hedge funds and introduces the “Volcker Rule,” which imposes limits on the degree to which a financial institution can use its own balance sheet to take bets in the hopes of boosting its own earnings. In other words, the Act aims to limit the extent to which a bank can treat itself as its own best customer, by refusing to allow it to allocate more than a sliver of its assets to hedge funds or private equity funds, or indulge in proprietary trading to any significant extent. The Act tries to ramp up oversight of the over-the-counter derivatives business and also provides for the creation of a consumer protection agency charged specifically with ensuring that ordinary individuals aren’t abused by the financial institutions in the fine print of credit card deals, mortgage loans, or other financial products.

The ideas behind these and the other detailed reforms spelled out in the fine print of the legislation officially known as the Dodd-Frank Wall Street Reform and Consumer Protection Act are often laudable. But there are countless obstacles that litter their future path. Firstly, they must be implemented; specific policies need to be designed by the agencies charged with carrying out the reforms. We have already seen in the fierceness with which parts of the market battled specific provisions that were later dropped or watered down in the Act, that Wall Street won’t sit by waiting to abide humbly by whatever new rules Congress and regulators choose to devise. As always, they intend to have a voice in shaping those rules, and they had some early successes—removing car loans from the oversight of the new Consumer Financial Protection Agency, for instance. While banks will only be allowed to dabble in derivatives for the benefit of their own bottom line if they are hedging positions already on their books (such as Treasury bonds), there are loopholes which could permit them to set up separate divisions that would still be able to undertake those trades. There’s

no mention of Fannie Mae and Freddie Mac, the two government-sponsored entities that have been on life support since the crisis and which fueled the mortgage bubble by allowing and encouraging their balance sheets to swell with new home loans.

“For every provision of the bill that tries to stop Wall Street from doing something it has been doing, there are several loopholes and even more ways for me to challenge the law,” says one financial services lawyer who brags about having become wealthy by challenging the provisions of Glass-Steagall and who anticipates a similarly lucrative future chipping away at elements of Dodd-Frank that his clients find restrictive. One area that will certainly be the focus of a lot of scrutiny is the debate over what actually constitutes “proprietary” trading. There is likely to be a sharp difference of opinion among some regulators, who view the extensive market-making operations of Goldman Sachs, for instance (which can involve holding large positions of all kinds of securities on the firm’s trading books for significant periods of time) as proprietary trading, even as Goldman’s executives insist it’s all about catering to their clients. No wonder the Dodd-Frank Act “lends itself to being called the lawyers’ full employment act of 2010,” as Harvey Pitt gloomily dubbed it.

An effective regulatory system is one that is dynamic. As well as having rules that restrict the worst kinds of risk taking as well as illegal or abusive behavior by the industry being regulated, the regulatory system must be able to spot trends as they take shape and determine whether they might pose a real danger to the health of the financial system or even just to the well-being of a single systemically important player; it must be able to react in an appropriate fashion, rapidly enough to make a difference. An effective regulatory system is one that functions as a counterweight of sorts to Wall Street’s “animal spirits.” When a bubble of any kind arises, particularly when a new kind of business starts generating a disproportionate amount of profits for Wall Street, regulators must be able to understand what is going on and to react appropriately.

Consider for a moment two entirely different kinds of regulatory failure by Alan Greenspan, the once-revered Fed chairman who was

idolized so much by financiers that a rumor he was ill or dead was able to rock financial markets during his reign in the 1990s. In late 1996, Greenspan correctly identified that a bubble was taking shape in speculative dot-com stocks and warned of it publicly, referring to “irrational exuberance” on the part of market participants. But it took more than three years for that bubble to burst, during which time it grew to extreme levels and claimed many more victims. What might have happened had Greenspan gone beyond “jawboning” and instead had summoned the CEOs of the major financial institutions involved in the emerging bubble to a meeting and told them he didn’t want them to underwrite excessively speculative companies and that if they persisted, they should be prepared to contribute a share of the fees they were earning to an investor protection fund? Flash forward to 2006, a period in which the credit bubble was already well in place—a bubble that this time Greenspan didn’t appear even to notice. What would have happened had such a revered figure even decided to speak out and voice concerns about mortgage fraud and excessive leverage on Wall Street?

In both cases, all that would have been required to make Wall Street CEOs sit up and take notice would have been a gentle hint that someone like Alan Greenspan—a figure with unparalleled power and the gravitas of a Warren Buffett—was worried about what was happening. That kind of finger, applied in the right place at the right time, may have steered the financial system out of harm’s way whether by causing Wall Street’s leaders to act themselves or prodding them to pay some heed to the concerns of in-house naysayers like Lou Gelman at Morgan Stanley during the dot-com era (who had watched his role morph from that of gatekeeper to the capital markets to one he compared to being a croupier at a Vegas casino) or Mike Gelband at Lehman Brothers, who tried repeatedly to win a hearing from his bosses on his concerns regarding the firm’s exposure to real estate.

Good regulators think countercyclically. When they see the boom taking shape, they worry about the bust that could follow. Just as a good utility regulator makes sure that a Consolidated Edison power

plant has enough generating capacity to serve the citizens of Manhattan on the hottest summer days—that it can cope with a week or two of every citizen running his air conditioner at maximum power twenty-four hours a day without a blackout—so a good financial regulator will make sure that the institutions it oversees have their own version of excess capacity in the form of large capital reserves. Those can't be fixed, simply defined as a function of the type of bank it is or even by how much risk now-discredited models tell us the institution is running with its capital. Rather, capital adequacy standards need to adjust with the institution, so that a bank that suddenly starts paying outsize bonuses to employees in a new business segment that could potentially put at risk a lot of the institution's capital is required to set aside more of that capital to guard against such potential losses, even if nothing else has changed. If that new business line suddenly begins to generate a third of the company's revenues or profits, that might trigger additional regulatory scrutiny and possibly additional capital requirements.

The idea, says Sheila Bair, the head of the FDIC, is to make the kinds of business strategies that proved so destructive in the first decade of the new millennium so unappealing and costly that Wall Street firms will shun them on their own, without being required to do so, or at least manage them more carefully in the future. "One way to address large interconnected institutions [those deemed too big to fail] is to make it expensive to be one," Bair suggested to the FCIC. She proposed that giant banks should be required to contribute to a fund that could be drawn on to finance the breakup of a systemically important firm that starts to fail, arguing that such a proactive approach would be better for taxpayers than an after-the-fact emergency capital infusion or bailout. It also gives a firm a financial incentive to avoid failure in the first place.

The more risky a bank's business model—the more it relies on proprietary trading or structured finance, like CDOs or derivatives—the higher its "insurance" payment would be, Bair proposed. She went further still, suggesting that the "too big to fail" institutions should be required to draw up a kind of corporate living will that

would include a plan for their own liquidation in the event of insolvency. Again, the intent of proposals like these is to require those on Wall Street to ask the “what if” questions that too often get shoved to the bottom of their agendas.

A lot of attention has been devoted globally to the issue of capital standards. This is crucial: had financial institutions not eroded (sometimes deliberately, in order to magnify rates of return on equity) their capital bases in the years running up to the crisis, far fewer banks would have failed, required bailouts, or even wobbled, experts agree. Prior to the crisis, the average large global financial institution had set aside about 2 percent to 3 percent of their capital in the form of common stock as assets that could not be used or invested, that had to sit on the bank’s books ready to plug a balance sheet hole. Under proposal G-20, which policy makers put forward last autumn, that level will rise to 7 percent or so and regulators will have the flexibility to tell the institutions they oversee to boost that by another few percentage points should they detect another credit bubble in the making. The fact that regulators of the nations in which the major financial centers of today are located are all collaborating to devise an appropriate capital standard means that it will be harder in the future—at least as far as can be determined today—for banks wishing to cut their capital reserves to the bone to simply shift their businesses to another regulatory jurisdiction, or to argue that they need permission to set aside less capital in order to compete with rivals in other jurisdictions.

Good regulations are those that will cause an institution being regulated to stop and ponder the nature of the business that it is pursuing; to second-guess itself; to ask itself tough questions, such as, “If I am wrong about this, what is the worst that can happen and am I prepared as I can be for that and for whatever consequences follow?” The hallmark of a poorly conceived regulation is one that has all and sundry devising ways to outwit it before it has even been passed into law, such as the elements of the Dodd-Frank Act that try to regulate the derivatives business. The goal was to get many of these instruments traded on an exchange or at least cleared

through some kind of intermediary organization, a step that would make it simpler for market participants and regulators to identify potential risk. That's a laudable objective. But lawmakers wanted to exempt some players from this oversight. Farmers, mining companies, and others use relatively straightforward kinds of commodity-based derivatives to hedge their day-to-day business risks rather than to speculate. A farmer, for instance, may lock in a price for his soybean crop long before he harvests it by selling soybean futures; that eliminates the risk he will see his income plunge before he can harvest as the market reacts to the prospect of a bumper crop.

As long as those who are exempt from that law really aren't speculating and they have an economic purpose for their actions, that's fine. But quite apart from the possibility that exempt players would suddenly be given carte blanche to do whatever they want, without the kind of supervision other market participants face (and ignoring the fact that some of them, like the world's giant energy or mining companies, are big enough players to merit monitoring), there is a big additional risk. What is to stop Steve Cohen at SAC Capital, for instance, from opening a division of his hedge fund empire devoted to oil and glass exploration and production? Once established, with the exemption given, would the rules prevent the hedge fund from routing all kinds of derivatives transactions through this new division?

It's hard to see how the trade-offs and compromises necessary to pass regulatory reforms like the Dodd-Frank Act will result in a series of new regulations and regulatory bodies that are capable of meeting the extraordinary demands that will be placed on them in the years ahead. It isn't a matter of the perfect being the enemy of the good; rather, the question is whether the good can ever be good enough. Even in the best possible situation—one where the new rules themselves are good—the success of regulators will hinge on their ability to attract and retain the best talent and thus be able to enforce those rules. In other words, agencies like the SEC—in an era of government-budget cutbacks and renewed partisan hostility to regulation—needs to begin chasing Goldman Sachs on its own turf.

To be effective, regulators need to be as aggressive and as knowledgeable as the best Wall Street bankers. Too often, the savviest regulators are lured away from the SEC and other agencies to work at the financial institutions they once regulated—the fox that once guarded the henhouse has been recruited to devise strategies for future raiding parties. What regulator will be willing to take a hard-line stance against the big financial institutions, while being aware that down the road, in order to repay her student loans and put her children through private school and college, she may be approaching those same organizations in hopes of landing a much more lucrative job? For the money grid to function in the interests of all its stakeholders, regulators who ensure the rules are being applied in the best interests of the system deserve to be rewarded lavishly for containing risk, just as bankers and traders are for running those risks or helping their clients manage them.

### Chasing Goldman Sachs?

At the end of the day, the question boils down to whether Wall Street's reckless risk taking can be constrained by force alone, in the same way that criminal psychologists believe a serial killer is doomed to repeat his behavior unless confined to a maximum-security prison for life or sentenced to death. That seems to be what John Mack was suggesting when he declared “we can't control ourselves,” and what the rhetoric that accompanied the financial reform proposals has implied. When Charles Prince put forth the same case, he did so somewhat more poetically, arguing that as long as the music kept playing, he had to keep dancing and keep pace with everyone else.

But isn't it ever possible for someone on Wall Street to break step and decide to sit out the dance? And if not, why not? And if not, what can we, collectively, do to make that possible? While we can use the regulatory system to shield us and Wall Street from the latter's worst instincts and protect the money grid, surely we are all better off in the long run if Wall Street can develop its own *modus*



operandi for managing risk and corraling “animal spirits.”

It's impossible—and undesirable—to remove greed as a factor in the way that Wall Street thinks and operates. Even John Mack, for all his newfound zeal for reform, believes that isn't a good idea. “We cannot and should not take risk out of the system—that's what drives the engine of our capitalist economy,” Mack told the FCIC commissioners during their inquiry. But perhaps it is possible to devise ways in which greed can be displaced as the sole deciding factor. Instead of playing yesterday's game, chasing Goldman Sachs in the hope of earning the highest possible profits, could financial institutions shift their focus to emulating the best characteristics of Goldman Sachs?

Doing so would require Wall Street leaders to ponder the reasons that Goldman Sachs became the firm that everyone else on Wall Street envied—why it always seemed able to be ahead of the curve whether it was a matter of identifying promising new businesses or avoiding new sources of risk. The mystique predates the tenure of ex-Goldmanites Robert Rubin and Hank Paulson at the helm of the Treasury Department, giving the firm perceived “insider” status in Washington. Long before it had the easy access to cheap government capital that turbo-charged its earnings power and attracted controversy in the aftermath of the crisis, it was earning a higher rate of return and paying out heftier bonuses than its rivals, year after year, with fewer missteps.

In the late 1990s, when other firms decided that catering to the man in the street or the retail investor was the wave of the future and set out to either build or acquire retail brokerage networks, Goldman Sachs dismissed the idea. Goldman wasn't Merrill Lynch; that wasn't its core business. It was a firm that worked with institutional clients—big pension funds, mutual funds, or companies in search of capital—and a handful of ultrawealthy individuals and families, but not Joe Sixpack. That wasn't a business it knew, and it came with a set of risks the Goldmanites didn't feel sure that they could manage. Sure enough, within a few years, the Internet craze was over and several of the firms that had made massive investments in developing a broad retail presence were forced to

retrench or refocus. Goldman had never jumped on that bandwagon, and it let the next one pass it by as well. When firms such as Merrill Lynch were snapping up mortgage-origination companies in order to secure as much proprietary deal flow as possible for their CDO-creation machines, Goldman Sachs once again decided to stick to its knitting—even when it was criticized by shareholders for not chasing this possible source of profits.

But Goldman didn't stop at not jumping into the CDO business with both feet; it spotted the risks far earlier than most of its peers, and devised ways to limit its losses and to even profit from what it expected would be a downturn, even though those strategies landed it in hot water later on. Over the course of a two-and-a-half-hour meeting on December 14, 2006, that has now become part of Wall Street's folklore, chief financial officer David Viniar met with key members of Goldman's mortgage underwriting team, its risk managers and its traders, and emerged with the conviction that this was indeed a bubble, and one that needed to be shorted. Goldman reduced or removed the amount of credit it was willing to extend to mortgage originators. It established short positions in the credit and derivatives markets that would boost its profits if the real estate market began to crumble, and it began to sell off its own holdings of mortgage-backed securities, both subprime and investment-grade, in transactions like the Abacus deal.<sup>11</sup>

Goldman Sachs and its employees are no saints, as the Financial Times noted when it named Lloyd Blankfein its Man of the Year in 2009. The firms that bought the CDOs they had structured and sold were clients—Goldman was their counterparty and didn't owe them any fiduciary duty. As Blankfein told his interrogators within Congress, these were mainly professional investors who could look out for themselves. That's not an argument that will boost the public's perception of Goldman Sachs, but while the investment bank may have been in morally muddy territory, it was doing just what its obligations to its shareholders required it to do, not bending over backward to disclose more to clients about these transactions than it believed was absolutely required by law. Did anyone really expect a Wall Street firm to suffer from a sudden

attack of altruism? Or expect Goldman Sachs to warn the world about Viniar's conclusions? After all, John Paulson didn't issue a press release when he established his own positions. It was up to Goldman's clients to look at the same set of facts—they were there for anyone alert and astute enough to spot them—draw the same conclusions, and take the same measures. Most didn't, as history would quickly demonstrate.

What is worth chasing about Goldman Sachs isn't its rate of return; what is worth replicating isn't its outsized bonus pool. Rather, what the rest of Wall Street can learn from Goldman Sachs is that strategic thinking and planning of the kind that Viniar and his team displayed in the runup to the crisis pays off—and can pay off disproportionately well when done by some of the smartest people on Wall Street. “Trying to simply mimic Goldman Sachs is likely to lead to disaster,” says Evercore's Schlosstein. Rather, he and others suggest mimicking elements of their strategy.

That, says another former senior Wall Street figure, is harder than it sounds. “When I talked to people who worked for me, I would ask them to come and tell me what their strategy was going to be for next year; how they were going to change the business and adapt to the changes that they found,” he recalls of his first years overseeing a business division. “Don't tell me you're going to run faster than everyone else, shoot straighter, and win. Because that is not ever what works on Wall Street, not ever.” The harsh reality of life on the Street, he adds, is that few people look ahead very far and think strategically; even fewer try to combine that analysis with a hardheaded evaluation of their own competitive strengths and weaknesses. “There may be a lot of very smart people on the Street, but they are always playing yesterday's game or today's game, not thinking about tomorrow,” he says. “They are not thinking about how the markets are changing, how they might change in the future, how they can organize today to prepare for that.”

The result is that when change happens, Wall Street scrambles to cope, just as it did when new technology wreaked havoc on its business model and just as it did when Mayday removed—overnight—the stable source of trading fees that made that business model

sustainable. “Because they are clever and smart, these Wall Street guys from the better firms, they develop a solution and survive,” the banker-turned-consultant says. “But it’s not done in such a way that they plan ahead and try to control the outcome and position themselves to win. It’s not that Wall Street discourages strategic planning; it just doesn’t reward it. It’s all about what is this year’s performance, or how did your group do last quarter? It’s about maximizing this year’s bonus, and worrying about next year when it happens.” To the banker, a chess player, it’s like the difference between a game of poker and a game of chess. At poker, he says, what happens in one hand doesn’t affect the outcome of future hands—that’s a function of the cards he is dealt. Chess, in contrast, is a game of strategy, where each move limits future options or creates fresh opportunities. “It doesn’t surprise me that the guys on the Street tend to play poker more often than chess,” he comments drily.

A handful of Wall Street players do appear to be pursuing business in the Goldman Sachs style. In the autumn of 2009, in a move that received almost no attention from the financial press, the firm founded by star banker Robert Greenhill, Greenhill & Co., calmly announced that it would spin off its proprietary private equity investment division, Greenhill Capital Partners. At least one firm, it seemed, had decided that trying to emulate Goldman Sachs by becoming bigger and more diversified and doing more proprietary deals wasn’t the only path to success on Wall Street. Greenhill was thinking strategically, and had decided to play to his own firm’s strengths: advising clients on mergers and other strategic moves. “The scale of the opportunity,” Greenhill declared, “merits our undivided attention.” This, Greenhill had decided, was where his firm could capture higher profits, where the skill of his bankers could make a difference.

As every innovative new product that Wall Street devises becomes commoditized and while access to capital is, in normal market environments, already a commodity, skill is the one thing offered on Wall Street that is likely to continue commanding a premium fee. It is skill that helps Goldman Sachs earn a substantial

return on its shareholders' equity, and that will help it navigate financial markets that have been more tricky since the summer of 2010. Skill, like strategic thinking, can be acquired and honed, but not imitated or chased. Nor can strategic planning. Clayton Rose says that Greenhill's move was not only a reflection of the boutique institution's clear understanding of its skills but also a recognition of its weaknesses. These insights can only come from strategic thought. "Smaller players [like Greenhill], in this environment, don't enjoy a competitive advantage in terms of access to credit or deal flow for their private equity or merchant banking businesses," says Rose. "So they don't have the ability to outperform their larger investment banking peers in this area" on an ongoing basis.

If you can't beat them, why chase them at all? That's a question that we have too rarely asked Wall Street firms or, it seems, that they have too rarely tried to ask themselves. The firms that now dominate the money grid—JPMorgan Chase and Goldman Sachs—do so because they have a culture that puts a priority on risk management, and part of that risk management process involves asking tough questions of oneself. Some of the firms that chased Goldman Sachs without a real understanding of what made its model work—as opposed to what kinds of businesses helped it generate big profits—are now gone, or absorbed into other institutions.

So far, too few Wall Street firms have tried to answer the question of why they're chasing Goldman Sachs, much less the broader question of what Goldman Sachs represents. Some of those who have done so have come up with the wrong answer, judging by Dick Parsons's throwaway comment about Citigroup's priorities; others don't see any reason to undertake that exercise at all. When these firms are once again on stable footing, will they resume chasing Goldman Sachs—or JPMorgan Chase, if that firm succeeds in unseating Goldman and emerges as the model to emulate on Wall Street? Will smaller rivals try to replicate what Goldman Sachs has done, rather than carve out their own path to success based on their own strategic analysis of the opportunities and challenges and their own strengths and weaknesses?

“There is significantly more capital on the books of Wall Street’s banks than is needed for them to fulfill their core role of providing liquidity to investors,” says Evercore’s Schlosstein, alluding to one of the basic utility functions at the heart of the money grid. As long as that is the case, he adds, there will remain an incentive for parts of those firms to take outsized risks and to behave as if they are running a casino rather than a utility. “Something needs to provide Wall Street with a wake-up call and remind it that shocks like those of 1998 and 2008 will not be aberrant events as long as the risk-taking culture remains so central,” Schlosstein argues. “Memories fade faster on Wall Street than on Main Street.”

But Main Street’s need for Wall Street is the reason that Wall Street still exists. The one certainty is that, regardless of which particular institutions or investment banking models endure and triumph over the next decade, its functions must remain intact. Unless we want to return to the days when we had to save for decades to buy a house, couldn’t buy furniture for that new home until we had saved the cash, and had to keep our savings in a bank account paying us less in interest than the rate of inflation (or, worse still, buried in the backyard or in our mattresses), we all have a healthy interest in ensuring that Wall Street functions smoothly, just as we have an interest in being sure that when we flick a switch, the light comes on, or that clean water flows through our taps.

That means we have a vested interest in ensuring that Wall Street begins to adopt some kind of long-term strategic planning, that it collectively stops trying to chase Goldman Sachs and instead starts trying to emulate the best features of the Goldman Sachs model. At the same time, all the financial institutions that collectively make up the money grid—including Goldman Sachs itself—must accept that as long as they collect the profits from running the grid, they must be prepared to pay the price when things go awry. A system in which the intermediaries profit or are cushioned from the full impact of any disasters while those at either end suffer outside losses is not one that is sustainable.

Going forward, all of those who have an interest in the survival of

the money grid that is Wall Street must decide collectively what kinds of actions and compromises are necessary to ensure that the grid and its functions remain healthy and vibrant over the long haul. Otherwise, we risk a systemic meltdown that could make us look back on the events of 2008 almost wistfully. Ultimately, we will get the Wall Street that we deserve.

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# GLOSSARY

**Active/Passive investing:** An investor may actively choose what stocks or bonds to add to a portfolio, or can opt to put money into an index fund or exchange-traded fund that simply tries to replicate the composition and performance of an index. The latter is referred to as passive investing, and die-hard advocates believe that since few managers can reliably outperform an index (after fees) over the long term, it's always the better option for investors.

**Alpha:** The ultimate big-game hunt on Wall Street is the quest for “alpha.” Technically, it's a return that can't be explained by what's going on in the market. So if the S&P 500 is up 10 percent and a manager posts a 15 percent return, that extra 5 percent is, theoretically at least, pure alpha. The problem is that the more you look for alpha, the harder it is to find, just like your missing car keys. Some folks argue that it's less like big game and more like looking for the dodo bird—in other words, it has been hunted into extinction by all the hedge funds.

**Arbitrage:** The process of taking advantage of small price differences between the same kind of investment in different markets.

**Asset allocation:** The process of dividing a portfolio among all the possible asset classes or types of investments, with return objectives and risk and volatility concerns in mind. A basic asset allocation involves stocks, bonds, and cash; it can also include other asset classes, such as real estate and commodities, and subdivide an asset class into subcategories with different characteristics—for instance, emerging market stocks, growth stocks, value stocks, small cap stocks.

**Asset-backed securities:** Bonds that are based on some kind of

income-generating asset—a mortgage, credit card receivables, or even a rock star's royalties. The income a bond investor receives is the cash flow from that asset, translated into an annual interest rate.

**Back office:** The behind-the-scenes operations necessary to the smooth functioning of any business, financial institutions included. Typical backoffice operations include clearing, information technology, human resources, and risk management.

**Beta:** The return that is offered by a market index, such as the Standard & Poor's 500 Index. (See [alpha](#).)

**Black Swan:** An event that most market participants dismiss as so unlikely to occur as to be almost improbable. The events of 2008 reminded everyone that just because such events may not be visible most of the time doesn't mean they can be safely ignored. (See [tail](#).)

**Bonds:** A bond investor is lending money to a company (or a government) for a fixed period of time and usually at a fixed rate of interest, which is why these are also referred to as fixed-income securities. A bond is a liability—investors are creditors, who are entitled to a stream of income but don't have any ownership interest in the entity issuing the bonds unless that issuer defaults, or stops paying the interest. In that case, bondholders may force the issuer into bankruptcy and seize the assets posted as collateral for the bonds. Bonds tend to earn lower rates of return for investors than stocks, but to offer less risk.

**Capital:** The lifeblood of any business, capital is the amount of cash, investments, and other assets on its books. To be well capitalized, a business's assets and liabilities (its debt, amounts owing to others) need to be in balance. But banks detest holding large capital reserves on their books; even though it's important to protect their balance sheets from losses on loans (see [default](#)).

every dollar set aside is a dollar that isn't working to boost revenues and profits. Part of Wall Street's problem in 2008 was lack of access to long-term capital at a time when the value of other assets on its balance sheet was eroding, after Wall Street firms themselves had pared their capital levels to the bone.

**Capital markets:** Those financial markets that are used to help raise capital for corporations or other entities (including the U.S. Treasury), or in which the securities created to finance the companies' need for capital change hands on stock markets or via over-the-counter networks, are collectively referred to as the "capital markets."

**Career risk:** A wry term coined by those on Wall Street to express the kind of non-financial risk they run by making a decision that others see as risky. For instance, someone running a mutual fund was far more likely to run "career risk" by putting money into an unproven dot-com stock than by investing in a blue-chip company—even if the outcome proved identical. One catchphrase embodying this idea was "No one ever got fired for buying [shares in] IBM."

**CDO/CLO:** A security that is made up of a pool of other securities, and that is then divided into tranches or slices that have different risk and return characteristics. A CDO, or collateralized debt obligation, is made up of debt securities, such as mortgages or car loans, while a CLO, or collateralized loan obligation, is a pool of loans.

**Clearing:** When a buyer and a seller of stocks, bonds, or other securities come to terms, there's a back-office process that follows, in which the owner of the securities transfers them to the purchaser in exchange for the money agreed on. The process results in what's known as the "settlement" of the trade.

**Collateral:** The security posted by a borrower that can be seized by

a creditor if the borrower defaults on a loan. In a mortgage, the collateral is the house that is being mortgaged, for instance.

**Convertible:** Not all securities sold on Wall Street are straightforward debt (in which the investor gets the right only to agreed-on interest payments over the life of the security and repayment of the principal). Some are hybrid securities, known as convertible bonds or convertible preferred stocks. These start their life looking like fixed-income securities, offering the investor a steady stream of income, but can be converted later on into stock.

**Correlation:** A way of describing the likelihood of event A being followed by event B, expressed in numerical terms. A perfect correlation means that if one thing happens, another is almost certain to happen as well, either at the same time or in short order. Investors use correlation to understand what the risk is that a hike in interest rates will cause not only a selloff in the bond market but also in the stock market—and which parts of the stock market might be less correlated to interest-rate jumps and thus a safer place to seek shelter. In the midst of the financial crisis in 2008, nearly all assets were tightly correlated, falling in tandem, even many of those that had historically displayed much lower levels of correlation. (See [diversification](#).)

**Counterparty:** Literally, the individual or entity taking the opposite side of a trade or transaction. When you buy a house, your counterparty is the seller. It's an arm's-length kind of relationship, in contrast to the word client, which implies an ongoing relationship that includes an element of trust.

**Covenant:** The terms and conditions under which a loan is granted or that are specified in a debt security. A borrower may be legally obligated to keep a certain level of assets or cash flow relative to the value of the loan, for instance. Violating a covenant—even if the borrower has kept up with payments—can put that borrower

into default.

**Credit:** The origin is credere, Latin for “to believe”; and credit signifies the belief that a borrower will be able and willing to repay what has been loaned. To extend credit is not only to make capital available (at a certain rate of return) but to signify confidence in the borrower.

**Credit default swap:** Developed in the 1990s as a way for banks and other financial institutions to reduce their exposure to credit risk (the risk that a borrower can't repay his loan, see [default](#)). The pressure was on banks to keep less and less capital in reserve to guard against defaults. Like any swap, the CDS seeks to move a set of risks from someone who doesn't want them to someone who sees a profit in them. A bank might buy credit default swaps to protect against loan losses—with the counterparty paying up in the event of a loss, but collecting a fee immediately in exchange for that longer-term insurance. For banks, it was a great way to reduce exposure to some kinds of commercial loans without damaging client relationships—they could extend a moderately risky loan, keep the customer happy—and then use a credit default swap to reduce the risk of that loan. The original credit derivatives involved single-company credit risk; credit default swaps packaged together multiple corporate credits.

**Default:** When a debtor—a company that has issued debt securities or taken out a loan—ceases to make regular interest payments to the lender as provided for in the loan agreement or under the terms of the debt security, that entity is deemed to be in default. As a company's cash reserves decline and its finances come under pressure, the risk of default rises, usually triggering a slump in the price of both its shares (which could be worthless if default presages a bankruptcy filing) and any debt securities. Cash flow is the major warning sign of a looming default.

**Derivative:** A security whose value is linked to, or derived from.

that of an underlying asset. For instance, gold futures contracts are tied to the value of gold bullion; stock options are linked to the value of a stock, and move in response to any stock price change. They are contracts on myriad financial products, which can be as straightforward as gold and crude oil futures, or as complicated as customized swaps involving obscure currencies. Farmers and mining companies can use derivatives to hedge their risk, selling forward their future production and locking in a guaranteed price. But speculators can also use derivatives—both exchange traded and customized—to bet on what they think the financial markets will do.

**Diversification:** The process of spreading assets around many different kinds of investments; much research has shown that diversification can lead to higher investment returns and limit risk.

**Due diligence:** Don't trust; verify—that's the mantra of the financial markets. And due diligence is the process of checking a company's books for hints as to how strong its business really is, looking for any unexpected hiccups or errors in judgment. It's the process usually undertaken by an acquirer before purchasing a business, in the same way that a homebuyer will ask a structural engineer or other expert to check that a house they want to buy doesn't have termite damage or other flaws before they complete the transaction. In the stock market, due diligence by investors can mean checking regulatory filings and other financial disclosures, talking to people in the same line of business as the target company, interviewing executives, etc.

**Futures:** Contracts between a buyer and a seller (purchased/sold on an exchange) in which a buyer promises to pay a fixed sum for a fixed quantity of a certain asset at a date in the future. (Hence the moniker.) These began as a way for farmers to hedge the uncertainty of crop prices—they could sell wheat that was still growing months before it would be harvested, locking in a price.

Futures started as a way to trade commodities, but today include contracts on interest rates movements, currencies, and many other kinds of assets and are now used by investors with no interest in taking delivery of a bushel of soybeans or barrel of oil to speculate on the future movements of those commodities.

**Glass-Steagall:** The 1933 law that mandated the separation of commercial banking (banks that take deposits and make loans to “ordinary” individuals) and investment banking (a riskier and more volatile business involving trading and underwriting). Passed in the wake of the 1929 Crash and the banking crisis that followed, the idea was to create an environment where the backbone of the financial world would be sheltered from similar storms in the future. But long before it was eventually overturned, Glass-Steagall was eroded by decisions such as that by the Federal Reserve in 1990 that enabled banks to resume trading securities.

**Hedge fund:** Go anywhere, invest in anything, but bring back an eye-popping performance. That’s the theory that underpins the existence of the hedge funds. Very few of these funds were structured as “hedges”—to minimize risk. The moniker seems to have more to do with the use of short-selling, one hedging technique that can also be used to generate profits. Over the years—multi-strategy. And as the landscape became more crowded, there were fewer unexploited opportunities. These are private partnerships, lightly regulated, that typically offer their managers the opportunity to profit from their investment skill by rewarding them with not only a management fee but a percentage of the profits.

**Hedging:** An investment strategy used to manage an existing risk. If someone works for Microsoft and owns a lot of Microsoft stock, he or she might use options to hedge against a decline in Microsoft’s stock price, for instance.

**Illiquidity:** An environment in which it’s nearly impossible to get

market prices on the securities in a portfolio because there is little or no trading in those securities, and so it becomes extraordinarily difficult to determine the value of a portfolio. (See [liquidity](#).)

**Incentive fees:** The fee that a manager of a hedge fund or buyout fund collects if they hit a certain rate of return. In a typical structure, the manager might get 2 percent to manage the assets, but pocket 20 percent of any profits as an incentive to do well.

**Index:** A collection of securities brought together because they reflect a certain kind of asset class or category and can be used as a shorthand way of describing the performance of that group of securities. For instance, the Standard & Poor's 500-Index is a proxy or reflection of the performance of the largest U.S. publicly traded corporations of all kinds. Various products can be structured to allow investors to profit from moves in an index, from index funds and ETFs to swaps.

**Institutional investor:** The opposite of a retail investor (see [below](#)), an institutional investor is an entity or an individual responsible for managing large pools of capital that don't belong to him or her personally. An institutional investor can be a mutual fund manager, or in charge of running a college endowment or pension fund's assets. They are the investors who, due to the billions of dollars they control, dictate the direction and velocity of the financial markets.

**IPO:** This stands for initial public offering—i.e., the first time that stock in a particular company has been sold to general investors via a large-scale transaction. Up until this point, financing is deemed to be “private”—a handful of institutions or individuals known to the company have been approached to provide funding. An IPO is an opportunity for those early investors to reduce their holdings by selling them at a profit. An IPO typically means that the new stock will now be traded on a stock



exchange, and its shares, available for purchase by anyone at all with the money and the interest in acquiring them.

**Junk/high-yield bond:** When a company's credit rating is low, it has to pay higher rates of interest in order to issue debt because the risk of default is seen to be higher. Hence, these companies issue what investors might describe as "high yield" bonds, a polite description that refers to the level of interest payments, or "junk" bonds, referring to the credit quality.

**League table:** The lists published periodically—every quarter, every year—showing the market share of banks and investment banks in key areas such as stock and bond underwriting and merger advisory mandates. Financial institutions measure their market share and relative performance using these rankings.

**Leverage:** Basically, this means borrowed money. When you buy a house and take on a mortgage to finance it, you're using leverage. On Wall Street, leverage is most frequently used to turn a trade that on its own is only slightly profitable into one that becomes much more lucrative. If you have \$10 but can borrow \$90, you now have \$100 to invest. If you make \$1,000 with that \$100, you have a much larger profit—you only have to return that \$90 (plus whatever interest rate you paid). You really used only \$10 to generate \$1,000, so your actual rate of return is far higher.

**Leverage ratio:** Ratio of how much a financial institution (or other entity) has borrowed for every dollar of equity on its balance sheet.

**Limited partner:** An investor in a private equity, venture, or hedge fund (in Wall Street terminology, at least).

**Liquidity:** The lifeblood of any business or individual. You may feel rich if you own a Picasso painting, but if that's all you own, you don't have the "liquidity" required to pay your mortgage or buy

groceries. Liquidity measures how much cash you have on hand or readily accessible, in an emergency. Even solid businesses can succumb to a liquidity crunch if panic makes it impossible for them to access capital or sell assets to finance operations—transactions that could readily have been accomplished in a normal environment.

**Loan losses:** The amount of capital set to one side to protect a financial institution against losses on the loans it has made to its clients.

**“Long”:** Stock market jargon for owning a security outright and betting that its price will climb. If you buy 100 shares of Microsoft, you are “long” the stock and hoping that its value will rise.

**Margin:** The process of borrowing money to buy securities and using those securities as collateral for the loan. Margin is often offered by brokers to creditworthy clients. But borrowers can face margin calls if the securities they have bought on margin fall in value, pushing down the value of the loan’s collateral.

**Mark-to-market accounting:** The process of adjusting the value at which securities are held on the balance sheet of a bank or an investment bank based on the price others are willing to pay for them. That’s a straightforward task when it involves stocks, since the price is openly revealed by the stock exchange on which a stock trades. It’s trickier when it involves private companies or “over the counter” securities for which no public market exists. (See [over the counter](#).) “Marks” can fluctuate dramatically, depending on the willingness of buyers to invest; sometimes the market that owners think is there doesn’t exist at that price at all. Marking to market is an important discipline because it identifies any gaps between the value someone applies to an asset and its real market value, but only when those doing it find ways to value those hard-to-value assets (like subprime CDOs in the midst

of a market selloff).

**Market-making:** At its purest, market-making involves a financial institution bringing together two investors that separately want to take the opposite view with respect to a particular security or investment idea; the institution serves as matchmaker and facilitator, collecting a fee for being the intermediary that helps to price and execute the transaction. In practice, market-making can be murkier; a bank can buy assets from a client and keep them on its own books for some time. Is that proprietary trading (see [proprietary trading](#)) or market-making? It all depends on who is making that assessment. Certainly the bank can claim it is simply facilitating a client's desire to execute a transaction and taking the other side of that trade until a counterparty can be found. But that's not always the full picture.

**Maturity:** In financial markets, this term is used to indicate the life span of a security such as a bond, futures or options contract, or other structured product. A bond that matures within twenty years has a long maturity; one coming due within the next year has a short maturity.

**Models:** Designed by highly skilled computer geeks, these were used as the basis for managing risk and predicting reward. Quantitative investors, for instance, used models to screen for stocks they believed had characteristics to outperform; risk managers used models to try to predict future losses in the event of such events as sudden interest rate increases, a boost in the price of oil, or other factors that might affect the value of a portfolio or trading book. The problem is that many models rely on assumptions gleaned from data; they can thus be tweaked to produce a desired result or have flaws that only show up in times of crisis.

**Moral hazard:** When someone perceives that there may be no negative consequences for taking risks, they are likely to take

more or greater risks. That implicit “get out of jail free” card is dubbed moral hazard; critics charged that government bailouts create a moral hazard for the rest of the financial system by altering behavior and attitudes to risk.

**Mutual fund:** A pool of capital offered by a management company (such as Fidelity or T. Rowe Price) available to any investor. An investor can buy or sell at any time over the course of a day, making mutual funds liquid. They can be broad (for example, investing in U.S. stocks) or narrow (investing only in European technology companies).

**Off-balance sheet:** The process of shifting assets and liabilities off a company’s own balance sheet and onto that of another entity, sometimes a subsidiary of the company. Doing this can free up capital and make a company’s own balance sheet—and debt and leverage levels—look more healthy.

**Options:** The right, but not the obligation, to purchase a security at a specified price and a specified date in the future.

**Over the counter:** While most stocks are traded on an exchange, many other securities change hands only via a network of traders or dealers, what is referred to as “over the counter.” Some of these OTC markets are very liquid, such as government bond markets, as the trading is heavy and frequent, with many participants. Other securities, however, are much more exotic or customized, have only a few natural buyers or sellers, and therefore can’t be readily bought or sold. (See [liquidity](#).) Some never trade at all. An illiquid OTC security can be very difficult to price. Even if a liquid market was present a month ago, events can cause that liquidity to dry up rapidly and, in contrast to the stock market, there are no players required to continually “make” a market in a given security.

**Par:** A term used in the pricing of bonds and other fixed income-

style securities, this refers to the value of the assets being sold at the time of their sale. For instance, a \$100 bond that is sold for its full face value, \$100, is said to be sold or priced “at par.” In some cases, bonds are sold above or below par at the time of issuance, but more often the move away from par value comes in the secondary market and is a reaction to the move in interest rates (a rise in interest rates often pushes the value of already-issued bonds offering interest payments below the new, higher level lower in price) as well as the credit quality of the issuer. A bond trading at 75 cents on the dollar, for instance, is trading “below par.”

**PIK, or payment in kind:** A twist on interest payments offered by cash-strapped businesses. Instead of making interest payments in cash, they might offer them in more debt or stock. It's a riskier investment as instead of pocketing cash, the investor is agreeing to accept a security whose future value may be uncertain.

**Plain vanilla:** Jargon; a slang phrase used to describe a very straightforward security or transaction. The original swaps contracts were “plain vanilla”; many credit default products of the 2005–2008 period were anything but.

**Price:** As in every other market, it's something that buyers and sellers haggle over daily and varies depending on the appetite of the buyers for whatever kind of security or asset is being put up for sale, as well as the amount available.

**Private equity fund:** Based on the theory that public financial markets don't always fairly reflect the full value of a business, private equity funds use borrowed funds to buy businesses and overhaul them. The goal is to find ways to enhance or make more apparent the real value and then sell them to the public via an IPO, or to another corporation in a “strategic” merger.

**Proprietary trading:** This is the phrase used to describe the growing

trend of banks and investment banks to set aside a portion of their own capital for their own traders to deploy as they see fit in pursuit of profits. Most of their other businesses involve the financial institution serving as an intermediary, helping buyers meet sellers. In proprietary trading, the bank itself becomes one of the parties to the transaction, rather than just facilitating it. During the 1990s and into the first decade of the twenty-first century, this became an important source of both profits and market intelligence for many institutions.

**Quants:** Quantitative investors rely on data and models to tell them what investments are most likely to outperform in any given market situation. Quants are usually very skilled in building computer-generated models and related fields; often referred to as “rocket scientists,” some have, indeed, used their mathematics and physics skills working for NASA and other organizations.

**Rating agency:** When investors don't have the resources to do their own due diligence or don't want to invest the time and energy required to understand the risks of a security, a rating agency is a fallback. In the runup to the crisis of 2008, however, too many investors had placed too much reliance on those ratings—and the rating agencies had compromised their standards in order to pull in fees and enrich themselves. Rating agencies have had a privileged role on Wall Street, thanks to regulations requiring institutional investors to buy “rated” bonds.

**Repo market:** By 2007, investment banks used the repo market to fund half of their assets, obtaining short-term capital from big institutional investors who are willing to entrust them with that capital because the investment banks put up collateral in exchange. The problem was that the risk associated with those assets began to climb in the months leading up to the crisis; eventually, repo lenders insisted on bigger discounts and ultimately dug in their heels and refused to lend, even overnight, against assets that couldn't be valued and that were highly

volatile. A crisis of confidence produced a liquidity crunch. This was the late-twentieth-century version of a run on the (investment) bank.

**Retail investor:** An ordinary individual saving for his or her own retirement or other goals; not someone who is managing money on behalf of others as a professional.

**Returns:** The size of the profit an investor makes on their investment, usually expressed in percentage terms. For instance, buying a stock at \$10 that then climbs to \$12 within six months would mean a six-month return of 20 percent.

**Return on equity:** This figure, known as an ROE, tells investors how skillfully and effectively a company's management team is employing the capital they have invested to generate profits. It is a particularly significant metric for anyone trying to understand how well a financial services company is doing in absolute and relative terms.

**Risk:** When we cross a road, we run the risk that we'll be hit by a car, trip over a curb, bang into another pedestrian, or have the bottom fall out of a bag of groceries. The risks confronting financial-market participants are equally varied, and far harder to track. They are also linked. (See [correlation](#).) Some risks that financial-market participants must bear in mind are price risk, volatility risk, economic risk, operational risk, credit risk, and counterparty risk.

**Risk-adjusted return:** If two investors each earn 15 percent on their portfolios over the course of the year, who is doing a better job? One way to answer that question is to figure out how much risk they are taking to earn that 15 percent; the investor taking less risk is earning a higher risk-adjusted rate of return. There are many different ways of calculating this kind of figure and some element of risk-adjusted returns has crept into the evaluation of

most kinds of investment funds.

**Risk management:** The process of understanding and seeking to limit or reduce the magnitude and nature of risks being run by any entity. Increasingly, on Wall Street, this involved using derivatives to break up risk and package it out among more different institutions—the theory was that such a spreading out of risk would minimize any shock to a particular institution.

**SEC:** The Securities and Exchange Commission, established in the 1930s to ensure that public securities markets function efficiently. Companies are required to disclose earnings and other material facts; the SEC is charged with guarding against insider trading and other wrongdoing.

**Securities:** A way of referring to the whole panoply of financial assets—stocks, bonds, loans, et cetera.

**Securitization:** The process of taking a loan and turning it into a security that can be traded by packaging it together with many other loans of a similar kind, then selling ownership stakes in the entire loan pool. Securitization started with mortgages, then moved on to car loans, credit card receivables, even rock star royalties.

**Shadow banking system:** Entities that make up the shadow banking system don't take deposits, like a traditional bank (e.g., Citigroup or JPMorgan Chase), and include investment banks, hedge funds, and mortgage lenders, as well as money market funds and other nonbank financial players. They serve the same intermediary role but are more lightly regulated.

**Short-selling:** To bet against a company's stock or other security is said to be selling it short. Instead of buying a stock and holding it outright, a skeptical investor borrows the stock from an institution that owns it. then sells those securities. She is now on



the hook: at some point, she will have to repurchase the stock and return it to the institution that lent it to her and meanwhile she is paying a fee for borrowing it. For the transaction to be profitable, the stock must fall. The lower it tumbles, the cheaper it will be for her to buy back and replace—the difference between the price she sold it at and the price she buys it back at is her profit. If she gets it wrong, the loss is potentially unlimited, one reason why many brokerages limit the amount of short-selling a client can do and require short-sellers to demonstrate a degree of market knowledge.

**Spread:** The difference between the yield on one asset—say, a Treasury bond—and another, such as a junk bond. The wider the spread, the riskier the higher-yielding asset is said to be.

**Stocks:** Purchasing stock in a company gives an investor an ownership interest in the business, in contrast to a bond. While companies can pay dividends on their stocks, investors typically make most of their return in stocks from capital appreciation: the growth in the value of the stock.

**Stress test:** A process in which the managers of a financial institution run “what if?” scenarios and gauge their organization’s ability to respond and even survive anything from a computer-systems crash to a massive and unexpected change in interest rates, market valuations, or other factors. Playing around with scenarios can highlight previously unknown or underrated sources of risk.

**Structured finance:** The process of and the players involved in developing often complex, new kinds of securities to transfer risk from one player to another.

**Structured Investment Vehicles (SIVs):** Off-balance sheet entities in which financial institutions could hold securities as long as those positions were financed with very short-term debt—debt that had

less than a year before maturity. Ostensibly these were independent vehicles, but as banks began to fill them up with mortgage-backed securities, the question was whether banks could afford to let them collapse.

**Swap:** Earliest of the derivatives; contracts between two parties (see [counterparty](#)) enabling them to swap one risk for another. Swaps made their debut in the interest rate (bond) markets and the currency exchange markets amid tremendous volatility of the 1980s. A company with floating-rate debt and fearful of a jump in interest rates could pay a fee to a banker who would structure a “swap” enabling them to exchange that floating rate for fixed debt. In exchange for some kind of premium, the counterparty would take on the interest rate risk. The counterparty (often a financial institution) would then seek to hedge (or offset) its own risk associated with that trade.

**Synthetic security:** An index is a synthetic structure—it is designed to represent something else. You can’t buy the S&P 500 Index, for instance, although you can buy one share of each of the five hundred companies. Similarly, a synthetic CDO is a CDO designed and structured to mimic the performance of real assets. These securities may mimic returns but offer features that aren’t available to investors in those underlying assets. Most synthetic securities are private placements, not readily available to the average investor.

**Systemic risk:** The risk that the entire financial system will come tumbling down. Because it has never really occurred—although it has been prevented, sometimes narrowly, on many occasions—this risk tends to be underestimated in practice, and is hard to measure and guard against.

**Tail:** Imagine a bell curve, with a big bump in the middle and lines falling to be almost flat at each end. Those end points are the “tails.” In most financial markets, the big bump in the middle is

where most outcomes occur—the greatest probability of a change in the price of a stock will be found here. Let's say that for 364 days of the year, a stock's price never moves more than 3 percent. That's the big bump in the middle. Over on the tail are those other moves, the outliers. Over there is the one day in a year when it trades only 1 percent, or a whopping 15 percent. The more unlikely the move, the more unprecedented, the lower its probability and the further its location out on the tail. But over time, people grew complacent about those low-probability events, or "Black Swans"—just as they were about to burst upon the market in 2008.

**Too big to fail:** Shorthand for the idea that some financial institutions have become simply too large and interconnected—and too vital to the economy—to collapse and file for bankruptcy without wreaking havoc on the entire financial system. Accordingly, the theory runs, the managers of these banks can be tempted to take on more risk simply because they believe that the government will be forced to bail them out if they hit the rocks. (See [moral hazard](#).)

**Tranche:** Literally, a slice; in practice it refers to a slice of a deal, whether a new financing, a CDO, or a loan, etc. A tranche tends to have specific risk and return characteristics relative to other tranches of the same transaction.

**Transparency:** The degree to which risk and return can be easily gauged and information about an investment can be readily obtained. The large-cap U.S. stock market is said to be highly transparent.

**Underwriting:** The process of bringing a security to market.

**Underwriting fees:** The percentage of the total sum raised in the sale of stock, bonds, or other securities that is allocated to the underwriters as a fee for their efforts. This varies with the size of

the transaction and its difficulty. Stock transactions of little-known startup companies typically command a 7 percent fee; someone selling bonds for a Fortune 500 company will get significantly less than 1 percent. Junk bond fees might fall somewhere in the middle.

**Value/Valuation:** It's always in the eyes of the beholder. A value investor is in quest of a stock or bond that is trading beneath what she believes to be its actual value and that she believes will rise in price until the valuation is "fair."

**VaR: Value at Risk**—Can be used by buyers to convince themselves that they were taking much less risk than was in fact the case; it is a backward-looking measure. Built around probability theory, the goal was to look across the entire panoply of a financial institution's operations and come up with a single number reflecting how much it might lose over a defined period (typically the next twenty-four hours) with a certain probability or level of certainty, say 95 percent. Bank executives viewed the number as a kind of worst-case scenario; a jump in VaR would serve as a warning signal that the bank was suddenly risking more of its capital. VaR was alluring (it could measure risk in every kind of financial asset by looking at its pricing history, however complex or straightforward) but also deceptive, because it relied on history and put a lot of emphasis on more recent history. (It also ignored the risk of what would happen the remaining 5 percent of the time; see [tail](#), [Black Swan](#).) So the further back in time that extreme price swings receded, the less likely they were to affect the VaR calculation. The weaknesses of relying on simplistic VaR measures became clear in 2008—often too late. VaR's greatest utility was, and remains, as a starting point for a broader discussion of risk.

**Venture capital:** Startup capital for fledgling companies where the potential risk of failure greatly outstrips the prospects for success. Perhaps 20 percent of a venture fund's portfolio companies will

generate big returns; another 10 percent may go belly-up. In return for much-needed capital, validation in the eyes of the market, help with the business plan, and marketing, etc., the VC investor gets great terms and can have a lot of say in how the business is run.

**Vulture investor:** An investor who likes to pick over the carcass of a truly dreadful investment, in hopes of finding a smidgen of value.

**Yield:** A function of a security's price and whatever kind of income stream (coupon or dividend) it offers the investor. For instance, buying a bond that has a 7 percent annual interest payment at \$100 or at \$95 will give an investor two different yields; the latter investor pays less and thus collects a higher yield. Price and yield always move in opposite directions, and yield is a function of how much an investor values a preset rate of return.

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# NOTES

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## ABOUT THE AUTHOR

Suzanne McGee is a contributing editor at Barron's. She has written about the financial markets for the New York Post, Institutional Investor, [Portfolio.com](http://Portfolio.com), and the Financial Times and is a Loeb Award winner for a multimedia series on consumer culture in China. Earlier in her career she was a staff reporter for the Wall Street Journal.

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