

1 FEDERAL TRADE COMMISSION

2
3 A ROUNDTABLE SPONSORED BY THE BUREAU OF ECONOMICS
4 UNDERSTANDING MERGERS:
5 STRATEGY & PLANNING, IMPLEMENTATION AND OUTCOMES
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11 December 9 and 10, 2002
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26 FEDERAL TRADE COMMISSION
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46 Edited Transcripts: These proceedings were professionally
47 transcribed as described on page 365 of the transcript. The
48 transcript was edited by FTC staff to improve punctuation,
49 spelling and clarity. In addition each speaker was given
50 the opportunity to edit his/her comments.
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2 So, we look forward to a very interesting day and a half
3 of discussions on aspects of mergers and acquisitions.

4 MR. PAUTLER: We'll move on to Panel 1 now, please. For the
5 members of Panel 1, please come on up.

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PANEL 1
RESEARCH ON MERGER OUTCOMES

9 MR. PAUTLER: Before we get into the substance of
10 Panel 1, I just wanted to go over a few ground rules. When
11 you came into the room, you must have noticed all the stuff
12 we have outside on the tables. There are a lot of handouts
13 that give you the PowerPoint presentations that the
14 presenters are going to use today. Also, there are copies
15 of various books and articles by some of the people that
16 will be presenting. And as Dave mentioned, there are copies
17 of a couple of papers that I put together. I think there
18 are also copies of the agendas and biographies of all the
19 people that will be speaking so you know who's talking to
20 you.

21 For this first panel, each speaker will have about
22 15 minutes to make his or her presentation. Following the
23 presentations, there will probably be an opportunity for the
24 panel members to discuss among themselves differences of
25 opinion. Then there will be some questions from the
26 moderator. Finally, there will be an opportunity, I hope,
27 for questions from the audience.

1 When we get around to having questions from the
2 audience, in order to make the transcript work, we would
3 like to have each of the audience questioners wait until we
4 get a microphone to you so you can give your name and
5 affiliation clearly and then you can ask your question.
6 That will allow us to get a cleaner transcript.

7 So, to begin, we're going to hear from researchers
8 who have examined merger outcomes using several different
9 empirical techniques, and over very different time periods.
10 I think these presentations are going to serve as a
11 background for some of the more specific discussion that
12 will happen later in the day and they'll also help us
13 understand whether mergers have changed over time and
14 whether there's a consensus regarding how effective they've
15 actually been.

16 So, in order to get started, I'd like to give you
17 some background on each member of the panel first and then
18 we'll get started with Professor Scherer.

19 Our first presenter will be Professor Mike Scherer
20 who is Professor Emeritus at Harvard's Kennedy School of
21 Government. He's taught at several leading universities and
22 published numerous books on industrial organization and
23 technological change over the years. Perhaps his most
24 notable work, for our purposes today, is work that he did
25 with Dave Ravenscraft, *Mergers, Sell-Offs and Economic*
26 *Efficiency*.

27 Professor Scherer also happened to be the Director

1 of the FTC's Bureau of Economics from 1974 to 1976, and I'm
2 glad he could be here today.

3 The second speaker is going to be Robert McGuckin.
4 Bob is the Director of Economic Research at the Conference
5 Board. Prior to taking on that post, he was the Chief of
6 the Center for Economic Studies at the Census Bureau and
7 prior to that, he had a distinguished tenure at DOJ's
8 Antitrust Division for the Economic Analysis Group.

9 Our third speaker will be Susanne Trimbath who is
10 a researcher at the Milken Institute. Susanne has taught at
11 major universities and has been associated with several
12 private and public economic institutions that are involved
13 in capital development. Susanne recently published several
14 books. One of her most recent books involved mergers and is
15 entitled, Merger and Efficiency Changes Across Time. She'll
16 be discussing some of that work today.

17 Batting clean-up for us will be Steve Kaplan. He
18 is the Neubauer Professor of Entrepreneurship and Finance at
19 the University of Chicago. His research focuses on private
20 equity markets, corporate governments, mergers and
21 acquisitions, and corporate finance. He also is a Research
22 Associate at the National Bureau of Economic Research, and I
23 know that he did a book for them a couple of years ago on
24 case studies of mergers and acquisitions. That's part of
25 what we'll hear about today.

26 So, without further ado, I'd like to get started
27 with Mike Scherer.

1 MR. SCHERER: Thank you very much, Paul. Just a
2 prefatory note. It was interesting that Tim Muris set 1974
3 as the cut-off date for viewing efficiencies as something
4 that went against a merger. That's just when I happened to
5 join the Federal Trade Commission, and indeed, there may be
6 a slight connection, although the official change came only
7 10 years later.

8 We had a merger between two ball bearing
9 manufacturers, and because of my previous research, I knew
10 that this was an industry in which one could realize very
11 substantial efficiencies by combining operations. I had
12 studied a U.K. merger in ball bearings that led to
13 productivity growth of about 30 percent or so. I therefore
14 took a position as Director of the Bureau of Economics that
15 we will not support the complaint unless the respondents are
16 offered the opportunity to present an efficiencies defense.
17 That was 1975 or '76, I think. I left the Commission
18 shortly thereafter. I was told the defense went nowhere.
19 What happened, I don't know exactly.

20 In any event, I thank the FTC for an invitation
21 that provided the opportunity to visit an old friend. That
22 old friend is my book with David Ravenscraft, Mergers, Sell-
23 Offs and Economic Efficiency. As I reread it this past
24 week, I realized it's the best book I've written.

25 Why is it the best book I've written? Two reasons
26 -- well, maybe three reasons. Interesting subject. That's
27 minor. Very good co-author, David Ravenscraft. And very

1 importantly, we had access to the most magnificent database
2 that one would ever want to have on this subject, the
3 Federal Trade Commission's line of business database, to
4 which we linked 6,000 individual mergers and acquisitions.

5 Time is short, so let me briefly review our
6 findings. First, our study focused on mergers of the 1960s
7 and early 1970s. This was a period, because of antitrust
8 law, of mostly conglomerate merger activity. To be sure, 41
9 percent of the acquisitions in our sample were horizontal
10 acquisitions - but they were typically tiny, too small to
11 attract the attention of the antitrust authorities. So the
12 mergers were preponderantly conglomerate.

13 We found that on average mergers didn't work out
14 very well. One major reason for disappointment was that the
15 acquirer paid too much for its acquisition. And under
16 purchase accounting, this showed up strongly in our database
17 by very big negative coefficients on the profit measure for
18 mergers which were consummated under purchase accounting.

19 But, second, this was a period when pooling of
20 interest accounting was also used -- a method no longer
21 allowed. Under purchase accounting, you write up the value
22 of the assets you've acquired to reflect any premium you
23 have paid over the book value of the assets. That inflates
24 the assets denominator of most profit measures, and also, by
25 increasing depreciation charges, it reduces the indicated
26 numerator of profit measures. Neither of these two effects
27 happens under pooling of interests accounting, and so, we

1 had to do a different kind of analysis to deal with the
2 pooling mergers. What we found was that there was, in fact,
3 a small positive profitability coefficient, a couple of
4 percentage points relative to all other non-acquired lines,
5 for the pooling of interest mergers.

6 However, the pooling of interest acquisition
7 targets were extraordinarily profitable before they were
8 acquired. This is seen in Figure 7-1 on page 196 of my book
9 with David Ravenscraft. The adjusted line for the pooling
10 acquisitions adjusts for differences in macro-economic
11 conditions. What you see is that the smallest acquired
12 entities had returns on assets before merger on the order of
13 20 percent. After merger, on average, those lines had
14 returns on assets of about 12 or 13 percent.

15 So, what one sees is that there was an
16 extraordinarily sharp drop in profitability from pre-merger
17 versus post-merger. The smallest drop in profitability was
18 achieved for what we called mergers of equals. These were
19 for firms that differed from one another by no more than a
20 factor of two. They were almost always consummated through
21 an exchange of shares and, therefore, were accounted for
22 under pooling of interest. That was the only class of
23 merger which we found did not lead to a drop in
24 profitability relative to pre-merger conditions.

25 We found that the worst decreases in profitability
26 were for the pure conglomerate mergers, although we found a
27 decline in profitability also for related business mergers

1 and for horizontal mergers. Our sample of verticals was too
2 small to draw any conclusion.

3 The other striking thing about the merger wave of
4 the 1960s and 1970s was the very large number of
5 divestitures. Large numbers of mergers were undone
6 subsequently. Now I'm going to use some slides.

7 I believe this is the most striking finding of our
8 entire study. We were able to track the profitability of
9 these lines that were either fully or partially divested
10 over a fair number of years. We found that as the time of
11 full divestiture approached, one had descending
12 profitability relative to the average for companies in the
13 same general industrial line. As seen in table 6-3 on page
14 168 of our book, four years before sell-off, profits as a
15 percentage of assets are below industry benchmarks
16 (averaging 13.93 percent) by 6.4 percent; three years
17 before, they are 9.92 percent below; two years before, 10.6
18 percent below. The year before sell-off profits were
19 negative in absolute terms and below undivested line norms
20 by 13.5 percent. Divested lines had a negative return on
21 assets the year before merger.

22 So, obviously, things were going wrong that led to
23 these divestitures. We did a large number of historical
24 qualitative case studies. They are in our book for the
25 reading, so I won't go into them in detail. But you can see
26 what kinds of things went wrong. Mainly three things --
27 corporate culture clashes, the departure of highly qualified

1 people, and inevitable regression of profitability from
2 earlier peaks.

3 I'm not going to try to use my other slides. To
4 save time, let me just summarize my results. There was a
5 large variance in these findings. On average, mergers led
6 to reductions in profitability after taking into account the
7 method of accounting used. But there were large variations
8 about the central tendencies. The T-ratios reflecting the
9 standard deviations on our merger coefficients typically
10 were on the order of two to three, indicating statistical
11 significance, but revealing that there was a wide variation
12 about the central tendency, indicating that some mergers did
13 quite well. Indeed, we found that certain companies that
14 had engaged in extensive conglomerate merger activity did
15 very, very well.

16 If there were a little more time, I would talk
17 about a subsequent study. I tracked 100 high technology
18 initial public offering firms for a period of about 15
19 years, and of those, about 35 disappeared by merger. Of
20 those that disappeared by merger, on average, they had been
21 under-performing the NASDAQ index, but there were a couple
22 of exceptions.

23 Something that I never studied and I've never seen
24 anybody study is quality of service. Business Week reported
25 about a survey of various service type industries,
26 telecommunications and the like, that surveyed customers
27 about quality of services. They split the responses between

1 those which had just had acquisitions and those which had
2 not had acquisitions. What you find is that service quality
3 deteriorated substantially after acquisition. I personally
4 have lived through about seven corporate control
5 transactions with my checking account bank, and I can tell
6 you, these statistics don't lie. Service deteriorates after
7 the typical service industry merger. That ought to be
8 looked into.

9 But, again, the key finding by Ravenscraft and
10 myself was that there's a lot of variability. Mergers fail
11 for financial reasons. They fail for managerial reasons.
12 But some succeed.

13 Now, how do you find the ones that succeed? I
14 have had a fair amount of experience trying to sustain
15 efficiency defenses. I did so in the Archer Daniels Midland
16 - Clinton Corn Products case. That's written up in the
17 hand-out that's available in your packages. There are ways
18 that one can do this. I used company census filings and
19 census industry benchmark data, among other things, to
20 estimate comparative productivity between the merger
21 partners on the one hand and the rest of the industry on the
22 other hand. I found astounding productivity growth
23 performance in the merged entities.

24 Ex ante, how do you find it out? I think a key
25 thing is the quality of the planning, as Tim Muris said, and
26 also the quality of the staff. But it's very difficult to
27 do this ex ante. Let me just talk about one other case in

1 which I was involved. In the late 1970s Ling-Temco-Vought
2 owned the Jones & Laughlin Steel Company. When Jones &
3 Laughlin sought to acquire Youngstown Steel, I was asked by
4 Attorney General Griffin Bell to write a report on that
5 merger. The parties claimed that efficiencies would be
6 realized.

7 I went back a few years later and looked at what
8 actually happened. What I found was that very substantial
9 efficiencies had been achieved, but they looked nothing at
10 all like the efficiencies that had been claimed in advance.

11 You can find my two analyses of the LTV - J&L
12 experience. One, the pre-merger analysis, is in my book,
13 Competition Policy: Domestic and International. The post-
14 merger analysis is in my book with Ravenscraft.

15 On one other merger I was the government's witness
16 in the attempted merger by Lockheed Martin with Northrop
17 Grumman. Their documents outlined an efficiencies defense.
18 The case never came to trial. But I did an analysis of
19 their efficiencies defense and found a quite remarkable
20 thing. The big efficiencies were to come from closure of
21 R&D labs and from shut-down of production lines. So, I
22 traced lab by lab, hundreds of them, and production line by
23 production line. I found that in 85 to 90 percent of the
24 cases, the lab that was to be shut down had a counterpart
25 lab doing exactly the same thing in the same pre-merger
26 corporation. Similarly for production lines.

27 So, almost all of those efficiencies could have

1 been achieved without merger. If they had two labs in a
2 particular field, they proposed to shut down one. They
3 could have done that without the merger. So, it's very
4 important, I think, to take that into account. The reason
5 for this strange behavior is Public Law 103-337, which
6 creates perverse incentives to claim that any efficiency
7 measures occur because of merger rather than for self-
8 initiated reasons.

9 My time is up. Thank you very much.

10 MR. PAUTLER: Thank you very much. Our next
11 speaker will be Bob McGuckin of The Conference Board, who
12 will discuss the importance of industrial restructuring and
13 his own empirical research on productivity increases
14 associated with plant transfers.

15 MR. MCGUCKIN: I must tell you, I actually
16 searched for efficiencies one time in a steel merger when I
17 was at the Justice Department and I had the same problem of
18 matching up the plants to see where the efficiencies were.

19 I've been doing a lot of work at The Conference
20 Board on international productivity comparisons, and we've
21 been focused on trying to explain things like gaps in
22 productivity between Europe and the U.S., for example. We
23 have argued that a lot of that has to do with the new
24 information and communications technologies, the
25 implementation and diffusion of that, and we've tied the
26 difference in the diffusion rates in Europe and the U.S. to
27 differences in such things as merger policy.

1 It's harder to do mergers in Europe. Regulatory
2 boundaries are also a factor. Things like restricted store
3 opening hours, for example, prevent Wal-Mart from taking
4 account of all their marketing expertise in countries like
5 Germany.

6 The point I want to bring this morning is that in
7 talking about these issues, I typically go through a
8 deregulation story about governments. But my basic lecture
9 to businesses highlighted in the slide on the bottom of p.1
10 of my handout, is usually that structural reform is not just
11 about governments, it's about business as well. So, I go
12 through a story -- and I won't have time to do the whole
13 kit-and-caboodle this morning - about new technologies,
14 government deregulation, changes in law, transition
15 economics, and banking reform. Whether in China, Japan, or
16 Europe, structural reform causes changes in the economic
17 environment and business must adjust to them. They mean
18 changes in the organizational structure of business.

19 So, what I talk to business audiences about is how
20 you meet the needs for organizational change. It's not just
21 about building plants. It's not just about closing your own
22 plants. It's about buying and selling plants. And Mike
23 earlier said something about following up these purchases
24 with divestitures and that's surely a big part of it.

25 The argument from a business standpoint is not
26 about a static price fixing versus efficiency, it's about
27 dynamics and changing the portfolio of activities that the

1 firm manages. Business makes changes through portfolio
2 adjustments. So, mergers and acquisitions are a big part of
3 business restructuring and reform.

4 Now, in my work, I took the next best step,
5 perhaps, to working with the line of business data. In some
6 respects it's better and in some respects it wasn't as good.
7 After I left the Justice Department, I ended up at the
8 Census Bureau, and there we developed something called the
9 Longitudinal Research Database, which is now called the
10 Longitudinal Business Database. It essentially follows
11 individual plants. It starts in 1963 and it reports
12 information on each plant in five-year swatches with some
13 in-between information on most plants. My work was
14 primarily in manufacturing.

15 It is now possible to do such with non-
16 manufacturing. The data has just recently become available.
17 I don't think anyone has replicated the work I did but
18 somebody sure should for non-manufacturing.

19 So, I examined the portfolio of plants owned by
20 the firm. I worried about what was the right counter-
21 factual for a business that's facing changing demand,
22 changing regulations, changing competition. If you think
23 about the '70s and '80s, most of my work went from '73 to
24 '92 or '87, and you start to think about that period, we had
25 a major energy crisis. We had major adjustments in what
26 business had to deal with, including changes in the
27 production techniques. We had enormous increases in foreign

1 competition for example in steel and autos. Japan and
2 Germany were sitting there with new steel plants. (At one
3 time, we actually brought consultants in from Europe and
4 tried to build a steel plant, and I did the same with oil
5 refineries in California.) There were major changes going
6 on and businesses had to adjust to those. They had to
7 reorganize their operations, and we were seeing a lot of
8 mergers.

9 Now, how did I pick all this up in the empirical
10 work? Well, the bottom line is we started with 300,000
11 plants. We looked at about 140,000. That's every plant in
12 manufacturing. And we followed them through the years. As
13 an aside, this work started out focused on drivers of
14 productivity growth. It followed up Frank Lichtenberg's
15 work. There was much other work, including work by David
16 Ravenscraft and Bill Long, looking at leveraged buyouts.

17 The study followed each individual plant and asked
18 the questions: How productive was the plant before it merged
19 and what happened after? It looked at the question with a
20 statistical regression model.

21 The regression model included controls that took
22 account of things like industry, prices, and region. It had
23 firm fixed effects. There were lots of variables included.
24 We controlled for the productivity of the plant before the
25 merger.

26 When you do these exercises you find that, by and
27 large, mergers produce efficiencies. Now, that doesn't say

1 anything about profits. It doesn't say anything about who
2 gets the profits or whether you paid too much or not. I
3 can't really talk about that. But I can talk about the
4 efficiencies.

5 So, I want to make a couple of points. First,
6 mergers are pervasive. (Let me see if I can actually pull
7 together a couple of overheads that would fill in. As I
8 indicated, I talk to business about the need to reorganize.
9 But, there is also a Conference Board report you can find on
10 our website, which is entitled, "Why All the Uncertainty,
11 Few and Doubt? Are Mergers and Acquisitions Bad for
12 Workers?" It focuses on the impacts around labor, because,
13 after all, mergers just aren't about antitrust, they're also
14 about labor unions and press, local plants being shut down
15 and so forth.)

16 The figure that I want to point to is this 66.7 percent
17 figure in the first slide on p. 2 of my handout. Over the
18 period, '77 to '87, 66.7 percent of workers were affected by
19 a merger in manufacturing. That's either they belonged to a
20 firm that had acquisitions or they were in a firm that was
21 acquired. So, that's a big proportion of the manufacturing
22 workforce affected by mergers.

23 Mergers are very pervasive. They involve all
24 industries and most big firms. When you start to look at
25 the firms with no acquisitions, it's only 33 percent.
26 That's the main message of that slide.

27 The next slide, on the top of page 3 of my

1 handout, shows the productivity impacts. You'll notice I
2 broke the acquired plants into kept and sold. The merger
3 took place; the firm kept the plant as part of its portfolio
4 or sold it. And, by the way, again, while all these mergers
5 where going on, the firm wasn't just sitting there; they
6 were building plants at the same time they were buying them.
7 They were building plants and they were closing them,
8 closing some of the plants they bought and some of the
9 plants that they already owned at the time. So, the firms
10 were undertaking major portfolio changes. But they sold off
11 a large number, as well. And you get a productivity impact
12 on the merged plants.

13 The slide records percentage points. It's a log
14 regression, so those are the regression coefficients. They
15 are the coefficient that you get on the ownership variable
16 after controlling for other things. You can do this in a
17 lot of ways, but the productivity gain is the bottom line.

18 I found it interesting and suggestive, and I broke the
19 chart before and after Hart-Scott-Rodino, although I don't
20 want to argue that this is proof of the positive impact of
21 the changes in the merger guidelines. After Hart-Scott-
22 Rodino, we got a bigger productivity bang. In some other
23 work, I looked at mergers that wouldn't have passed the '68
24 Guidelines and looked at them after the merger. I think I
25 had a series of about 20 or 30 in a paper in the Antitrust
26 Bulletin in 1990. Basically, there didn't appear to be,
27 with one exception, anticompetitive effects associated with

1 any of them.

2 So, you're getting a big productivity impact from
3 mergers. And, by the way, the story here is of two kinds of
4 impacts. I want to tell you a story about mergers and
5 corporate discipline and the market for corporate control.
6 The Rand Paper we did took-off from Lichtenberg and Segal's
7 work that looked at large plant mergers. If you look at the
8 large mergers, and I think this fits with some other work,
9 you see that there's a lot of corporate discipline
10 arguments, downsizing, things of that sort evident in the
11 data.

12 We broke the mergers into large and small. I
13 don't think I have the slide that was in my presentation.
14 Basically, the acquired plants are much bigger than non-
15 acquired plants and the firms buying them are much bigger
16 than the selling firms. But if you look at the results, you
17 find the following: We called roughly 80 percent of the
18 mergers synergistic. These mergers showed some gains even
19 though they involved buying a high productivity performer.
20 I think that fits very well with what Mike said earlier
21 about most acquisitions involving the purchase of good
22 performers. But then the acquiring firm improved the
23 productivity of good performer.

24 Acquirers also bought low productivity performers
25 and improved them. But the gains were much less. We found
26 that these plants were usually the largest plants. They
27 were old. Think of Bethlehem Steel in Buffalo, New York and

1 Lackawanna, circa the '80s. Those are the kinds of plants
2 where you have to get rid of the excess capacity.

3 So, there are two main motivations for mergers.
4 Most of the mergers involve smaller plants and most of them
5 are about synergies, even the cross border ones. For
6 example, a large European company just bought in Silicon
7 Valley so it could get some U.S. expertise on computers.
8 Those are the kinds of mergers we're talking about with
9 regard to synergies.

10 A good chunk of mergers are for corporate control,
11 where you're getting a relatively poor performer and
12 improving it. That doesn't mean you're bringing it back,
13 necessarily, to state-of-the-art, but you're improving it,
14 and that's the story we find in our studies.

15 The other point I'll make is that we also find
16 that wages generally go up, except in these large plants
17 where the wages initially are high. We find that mergers
18 are good for employees in the sense that if you start to
19 look at firms that didn't merge, they downsize, too. If you
20 sort them out by size, you find that, in fact, mergers are
21 just a way to do the thing that people do otherwise in some
22 cases. That doesn't mean you have to merge to downsize, but
23 it's often the best way. So, even when you are talking
24 about mergers for control, you find that generally they are
25 good for employees.

26 Unfortunately, most employees don't feel that way
27 because they work in those big, old plants. The size

1 distribution is very skewed and they also are plants that
2 are big parts of local communities. So, you get the press
3 and you get a lot of negatives, and that was clearly the
4 case when we had the state takeover legislation that was
5 pushed in the '70s and '80s, that was all a reaction to
6 downsizing acquisitions and plant closings

7 So -- just to close this up -- mergers really seem to
8 be more an element of dynamic competition, and a tool of
9 firm restructuring. They are good for the economy. That
10 doesn't mean there's never an anticompetitive merger. I
11 even testified in a couple of cases. But most mergers are
12 generally okay.

13 The slide on page 4 of my handout shows mergers
14 taking off in Europe, and one of the reasons is the Euro,
15 and Europe is undergoing a lot of deregulation. For the
16 U.S. it really started, I guess with the 1968 Carter Phone
17 case. That is where I date the beginning. You can pick it
18 up in the '60s, '70s and '80s. And the ICT, Information and
19 Communications Technology, revolution is a major factor in
20 mergers moving forward. That's happening in Europe and
21 we're actually starting to see it happen in Japan.

22 So, bottom line again, we're talking about success
23 in shifting resources to account for new conditions when we
24 are talking about mergers and acquisitions. Thus, the fix-
25 it-first approach to an antitrust analysis of acquisition
26 makes sense. The reason is, if I think about these
27 conceptual and statistical experiments that we ran, breaking

1 down the merger into its component parts, looking at the
2 firm's structure, what its buying and what its selling
3 piece-by-piece, that's what fix-it-first does. It usually
4 breaks the firm down and that was an innovation of Hart-
5 Scott-Rodino. You get the information in first and you can
6 start to deal with it. And that's exactly the way to go
7 about it.

8 That said, ex ante, it is very difficult to decide
9 on the mergers. I'll plug our Conference Board research
10 here for a second. (Most of the reports have an academic
11 paper behind them.) You can find the academic work, but the
12 report is written for business.) There's a list of six or
13 seven papers that discuss how to make a merger successful
14 referenced in my report. So, there's a big business
15 practice in this. This is not an easy game. When you
16 reorganize you have employee issues, you have other issues,
17 and a lot of business research focuses on that. Thank you.

18 MR. PAUTLER: Thank you, Bob. It's clear we've
19 got minor, if not major, differences of opinion about how
20 well mergers generally work, and we may come back to that at
21 the end of the presentations.

22 Our next presenter is Susanne Trimbath of the
23 Milken Institute. She'll provide us with some insights on
24 her recent merger work and she'll be focusing on the ways in
25 which accounting-based results change over time.

26 Susanne?

27 MS. TRIMBATH: Good morning. First of all, I'll

1 clarify that when I say "takeovers," I mean "mergers." When
2 you get into the academic literature, there's a distinction
3 between one and the other. What I'm looking at is a
4 complete change in ownership for an entire company, and that
5 differentiates my work from what Professor Scherer did and
6 also some of the things that Bob was talking about because
7 my work uses whole companies.

8 I wanted to call my book, Mergers and
9 Efficiencies: Temporal Distortions, but the editorial staff
10 found that a little too scary. People were going to think
11 of time warps or something. So, we stuck with Changes
12 Across Time. I measure efficiency using cost per unit of
13 revenue. Basically, cost is defined as fixed and variable
14 cost, which is cost of goods sold, plus SG&A over revenue
15 from the financial disclosures of public companies. I took
16 numbers from very early in the accounting statements to
17 minimize potential distortions from earnings management.

18 For all of the slides that you see today, I'm
19 using my own database for the statistics. My database
20 consists of the Fortune 500 and I update them every year so
21 that I have consistency in the sample. The companies that
22 are in there are not self-selected, as you would get using,
23 for example, all the NYSE-listed firms. I basically have
24 500 companies every year, so I don't have a bias problem
25 from a shrinking sample size, which is common in a lot of
26 large sample studies that examine more than one year.

27 So, the first thing we see in the slide on the top

1 of page 2 of my handout is a black line that shows changes
2 in volume. Using the Fortune 500, I find generally that the
3 peaks lag about one year behind national statistics. I'm
4 looking, of course, at the broad patterns, and the patterns
5 themselves aren't different among data sources. Just the
6 specific numbers might be a little bit different. As the
7 volume of mergers and acquisitions changed, so did the types
8 of research that were being done. The slide on the bottom
9 of p. 2 of my handout shows that not only the methodology,
10 but also the hypotheses, the reasons that researchers put
11 forth as to why takeovers were occurring, changed the way
12 that we measure performance has changed, also, across the
13 decades.

14 As a result of that, what you also get is changes
15 in the evidence, as shown in the slide on the top of p. 3 of
16 my handout. With all due respect to Professor Scherer,
17 who's sitting here with us today, Matsusaka, in 1993,
18 purported to have repeated his research with a sample that
19 was updated in time and found conflicting results. Another
20 example I use is Palepu, who basically showed that the logit
21 model and not the probit model, for those of you who are
22 statistically inclined, was the proper model for examining
23 the probability of takeover. Again, what I want to make
24 clear here is that even using the same sample, the same
25 methodology, the same measurements, when the sample was
26 updated to a more current period, there were actually
27 conflicting results found by Ambrose and Megginson.

1 The slide on the bottom of page 3 of my handout is
2 from my own research. It shows changes in the difference
3 between the median of the performance of all firms and the
4 median of the performance of targets in three different
5 periods. There are a lot of theories about why firm
6 performance changes across time. This shows targets
7 relative to other firms, how their performance has changed
8 in different time periods.

9 One suggestion about why firm performance changes
10 comes from studies of management turnover that show that
11 management turnover is more closely related to performance
12 during periods of active corporate control. So, when there
13 are a lot of takeovers happening, all managers are
14 disciplined not just those in the targets. This is the
15 pressure to perform that is put on firm management by the
16 threat of takeover.

17 More recent studies are looking at the
18 relationship between stock options and firm performance.
19 But I wouldn't be surprised, given the vagaries of the
20 capital markets, if they also find that there are some
21 temporal inconsistencies in that work.

22 Now, I'll just quickly go over some of the results
23 from the research that I did that's in the book that Paul
24 mentioned. Basically, I show inactive firms, firms that are
25 buyers, and firms that are targets, in different time
26 periods, as seen in the slide on the top of page 4 of my
27 handout. By the way, the size figures here are in constant

1 dollars, and they do make these changes, even if you adjust
2 for inflation. Not only each firm, but the firms themselves
3 as a group have changed across these periods. In addition,
4 their relationship to each other, their relative performance
5 and relative size, have changed.

6 When we look at the factors that are common to all
7 firms that are taken over compared to all firms that are
8 not, the statistical results, again, show that there are
9 distortions in size, but not in cost efficiency. The
10 targets' lower efficiency is the reason for selection. The
11 slide on the bottom of page 4 of my handout shows this
12 again, in two different time periods.

13 The first graph on page 5 of my handout covers the
14 1981 to 1985 period. What I want to show you is that it's
15 not just the magnitude of the relationship between size of
16 firms and cost efficiency that changes, but the direction
17 actually changes, as well. So, you go from a negative
18 relationship to a positive relationship in the slide at the
19 bottom of page 5, which shows 1990 to 1997.

20 I did want to get through some of the statistical
21 stuff pretty quickly. At this point, I'll slow it down just
22 a bit and move to some less technical material. The finding
23 shown in the graph at the top of page 6 is actually the
24 reason that the Milken Institute initially became interested
25 in hiring me. This shows the relationship between the
26 volume of takeovers of Fortune 500 firms and the use of
27 high-yield securities. The first use of high-yield

1 securities occurred in about 1983. Then, in 1986, the
2 Federal Reserve Bank changed the margin requirements which
3 basically limited the use of high-yield financing for
4 takeovers. And then in 1989, the tax code was changed to
5 take away the interest deduction for people issuing high-
6 yield securities. That made it very costly to use debt
7 financing for M&A.

8 In a Harvard Business Review article, John Pound
9 calls the 1980s activity of this type against financing,
10 "broad political persecution aimed at the debt markets."
11 Popular suspicion of financiers was not new to that decade.
12 In the 1930s, not only the banking laws, but also the
13 bankruptcy and reorganization laws were changed in order to
14 slow down the merger and acquisition activity of financial
15 firms.

16 Well, the consequence of the 1980's changes was
17 that the size of targets was dramatically affected. The
18 maximum target size shows the impact better than either the
19 average or the median. The top line in the slide on the
20 bottom of page 6 of my handout is the maximum target size,
21 and the lower line is the average. Here you can see quite
22 clearly where, again, the vertical lines show the 1983 first
23 use of high-yield securities, the Federal Reserve Rule in
24 1986 and then the tax code changes in 1989.

25 So, what we have here is something that suggests
26 that the size of targets of takeovers is a function of the
27 availability of financing. There was a study done in the

1 U.K. that showed also that the volume of merger activity is
2 a function of financing availability. Now, that particular
3 study has not been duplicated in the United States, but, by
4 and large, when the funding is available, M&A takes place;
5 when the financing is not available, it doesn't take place.
6 To me, this actually makes more sense than trying to figure
7 out other reasons why merger and acquisition activity rises
8 and falls in what some people have attempted to call
9 "waves."

10 State laws have also had significant changes in
11 different time periods, as shown in the slide on the top of
12 page 7 of my handout. In 1982 there was a Supreme Court
13 case for CTS vs. Dynamic that basically said that the states
14 could not regulate mergers and acquisitions. That was
15 reversed in 1987, at which point there was just a cavalcade
16 of anti-takeover laws in the states, Delaware passing theirs
17 in 1989, Pennsylvania in 1990. These actions helped choke
18 off the volume of takeover activity. The actions in the
19 states especially affected what we call "hostile takeovers"
20 -- those where the target resists the takeover. Again, this
21 was not the first time that this happened. In the 1910s and
22 1920s there were also broad reforms in state laws to try to
23 prevent takeovers.

24 The slide on the bottom of page 7 of my handout
25 shows these changes in takeover moods across time. I've
26 actually used three different definitions here for
27 "hostile." The resistance to the first bid is what actually

1 comes from Vishny's work, which is probably one of the best
2 known studies done on the mood of takeovers. I also looked
3 at resistance to the buyer's bid and to management changes
4 as ways to define "hostile."

5 In 1990, there was a case decided in the Delaware
6 courts that virtually requires the managers of the target
7 firm to get a second bid. In other words, if they don't
8 reject the first offer they receive, they can be sued by the
9 shareholders for not getting the best offer for the firm.
10 As usual, there are unintended consequences to this type of
11 regulatory change. In this case, it was to significantly
12 drop the share prices of all the companies incorporated in
13 the State of Pennsylvania.

14 The states weren't alone in their antitrust
15 activity. The slide on the top of page 8 of my handout
16 shows, across time, how many bills introduced into Congress
17 mentioned "takeover." As you see, during the 1980s there
18 was a lot of activity in Congress. A lot of it had to do
19 with political pressure put on by that 66.7 percent of
20 employees that Bob mentioned who were affected one way or
21 another after the merger. This also had unintended
22 consequences. The slide on the bottom of page 8 of my
23 handout shows the types of buyers, either domestic
24 corporations, foreign firms, financial buyers or employees
25 in this corporate control activity. You can see there are
26 significant differences before and after the anti-takeover
27 laws.

1 For instance, the buyers were foreign corporations
2 in 12 percent of the takeovers before 1990. After 1990,
3 after those types of anti-takeover activities were going
4 through Congress and the states, 31 percent of these
5 takeovers were performed by foreign corporations. There's
6 some speculation that foreign corporations are able to take
7 advantage of distortions created by regulatory activity.

8 So, what happens across time is we have these
9 regulatory interruptions, we have disruptions in the
10 financial markets, et cetera, that affect who can be taken
11 over, when and for how much. As seen in the slide on the
12 top of page 9 of my handout, in the pre-regulatory period,
13 per year, per merger, in the sample that I used, \$46 million
14 were saved annually through cost reductions. Afterwards,
15 \$15 million. And this is the unintended consequence of
16 regulatory interference in these markets.

17 Now, what are the good reasons why mergers occur?
18 Why is it that we want to encourage them? The slides on the
19 bottom of page 9 and the top of page 10 of my handout show
20 some of the structural reasons. This is based on work by
21 Fred Weston and also John Pound. Large technological
22 changes impact the way that we do business. In the 1900s
23 and 1920s, between the transcontinental railroad and the
24 advances in automobile transportation, we developed true
25 national markets in the United States. Firms were able to
26 grow beyond their region by being able to take advantage of
27 broader markets.

1 I'd suggest that we probably achieved some sort of
2 fulcrum point in the 1970s, sufficient globalization to
3 begin to generate an impact on a world economy from strong
4 change forces. The cost of transportation and communication
5 fell sufficiently by that point to create real international
6 markets. I think that you can draw a parallel to the forces
7 in the 1970s that created international markets with those
8 of the early 1900s that produced national markets.

9 In my own sample, I see significant changes in the
10 different time periods as to the sectors that the firms were
11 taken from. This is certainly true before and after 1990,
12 as shown in the slide on the bottom of page 10 of my
13 handout. This shows the percent taken over before and after
14 1990 of the targets taken from individual sectors. Now,
15 certainly before 1990 there just generally was more activity
16 overall. What's interesting to note is that the technology
17 sector is about half and half, whereas the overall split is
18 about 60/40. And so, although the energy industry, for
19 instance, had more targets in the earlier period than in the
20 later period, technology was more spread around.

21 So, for those of you who have to look at mergers
22 and acquisitions and decide which ones are good and which
23 ones aren't, what I would like to suggest to you is that you
24 try to identify where the industrial restructuring changes
25 are coming from. In the slide on the top of page 11 of my
26 handout, I suggest four ideas that will lead you to look at
27 the right industries at the right time.

1 The first is, some industries are dependent upon
2 population growth -- food, for instance. Population grows
3 at less than 1 percent. What company can survive if they
4 grow at 1 percent a year? All the capital markets and all
5 of the investors are going to require a higher growth rate
6 and so that industry is going to require mergers to be able
7 to get that type of growth.

8 Another idea to watch is product life cycles - in
9 the technology sector, in particular. Products turn over so
10 quickly that if firms can't build new products themselves,
11 they are going to have to purchase other firms to be able to
12 keep up with the technological changes.

13 Customer preferences is next. You need to be
14 looking at demographic shifts and also changes in
15 environmental and ecological impacts where people will be
16 attuned to buying certain types of products because they are
17 good for the environment.

18 And then the last, of course, is the post-
19 exuberance excess capacity, which can occur in virtually any
20 industry. Mergers are a way to reallocate resources to more
21 efficient uses.

22 Thank you.

23 MR. PAUTLER: Thanks, Susanne. We'll now hear
24 from Steve Kaplan from the University of Chicago Graduate
25 School of Business, and he'll discuss the finance literature
26 and the results that have appeared there.

27 MR. KAPLAN: Great. Thanks, Paul.

1 As shown in the slide on the bottom of p.1 of my
2 handout, I'm going to begin by presenting some simple
3 criteria and theory about how one can evaluate merger
4 success. Then I'm going to go through the empirical
5 evidence in the finance literature. This begins with stock
6 returns which we haven't heard anything about yet. Then I
7 will discuss some of the accounting-based literature that
8 Susanne, Bob and Mike talked about. Next, I'll talk a
9 little bit about clinical studies, one of which I have done.
10 Finally, I'll talk about what the sources of gains and
11 losses are and a little bit about micro-factors that drive
12 merger success.

13 So, how can you evaluate merger success? There
14 are several different ways. These are shown in the slides
15 on page 2 of my handout. The first way -- the finance one -
16 - is the stock price change at the announcement. This
17 attempts to measure the market's expectations of the change
18 in value from the merger.

19 One key point that is often lost when business people
20 and consultants talk about merger gains is that the
21 appropriate measure of merge success for shareholders and
22 the economy is the combined or total change in value of the
23 bidder and the target.

24 It is not whether the buyer got a good deal. A lot is
25 written about mergers failing because the bidders overpay.
26 Bidder overpayment is arguably irrelevant for economic
27 policy and for shareholders as a whole. What shareholders

1 as a group and policy analysts should care about is whether
2 the total value goes up.

3 To see this, take two companies, B and T, that are
4 worth \$10 billion each. If B buys T, B will be able to get
5 \$2 billion in synergies. B indeed decides to buy T, but
6 agrees to pay \$15 billion. Upon announcement, T's value
7 will increase by \$5 billion (or 50%) from \$10 billion to \$15
8 billion. Upon announcement, B's value will decline by \$3
9 billion from \$10 billion to \$7 billion. Why the \$3 billion
10 decline? B is paying \$15 billion for assets that will be
11 worth \$12 billion (\$10 billion + \$2 billion in synergies).

12 From the perspective of B's shareholders, B's
13 executives, and B's consultants, B has made a bad
14 acquisition, destroying \$3 billion. However, from the
15 perspective of all shareholders, this is a very good
16 acquisition. The combined value of A and B has increased
17 from \$20 billion (\$10 + \$10) to \$22 billion (\$7 + \$15).

18 The implicit assumptions in looking at the stock price
19 changes at the acquisition announcement are that (1) the
20 market is well-informed on average and (2) the only
21 information released is information about the merger.

22 Other finance studies look at the stock price change
23 over the longer run. The implicit assumptions in these
24 studies are that (1) the merger is important enough to drive
25 the stock price, and, again, (2) no other information is
26 released.

27 The accounting-based studies look at changes in

1 accounting-based performance at the company level over the
2 longer run. This involves looking at changes in some
3 measure of earnings or margins. The implicit assumptions
4 here, again, are that the merger is important enough to
5 drive what you're seeing and that no other factors are
6 important on average.

7 Some other accounting-based studies consider changes in
8 productivity at the plant level over the longer run. This
9 is what Bob talked about. These studies measures the
10 outcome of the merger at the plant level so the implicit
11 assumption is that the total productivity change of the
12 merger is largely determined by productivity changes at the
13 plant level. That may or may not be true.

14 There are some studies that consider whether the
15 acquisition was subsequently divested. Mike did that, I've
16 done that. This is interesting, but it is hard to evaluate
17 the non-divestitures.

18 The last way to evaluate mergers and acquisitions is to
19 measure the actual or expected present value, depending on
20 whether you're looking at the merger from an ex ante or ex
21 post perspective, by looking at the actual or expected
22 changes in cash flows.

23 Looking ex ante, you're looking at all the expected
24 changes in cash flows due to the merger, discounting them in
25 some way, and coming up with a value. If you're looking
26 after the fact, you would go three or five years after the
27 merger and look at all the changes in cash flows that

1 actually happened and attempt to come up with a value that
2 way. The implicit assumptions here are that expected equals
3 actual, if you're doing it ex ante. And if you're doing it
4 ex post, the assumption that you can actually measure actual
5 -- which is easier said than done.

6 There's one additional implicit assumption - the merger
7 effects are exogenous and they don't have an effect on non-
8 merging companies. This was probably particularly relevant
9 in the '80s where mergers and hostile takeovers of
10 particular companies arguably had large impacts on the
11 behavior of companies that weren't taken over.

12 So, what can we take away from all these different
13 methodologies? As seen in the slide on the top of p. 3 of
14 my handout, all of these measures are problematic in some
15 way. They all rely on assumptions. All, however, are
16 potentially informative, which is why we look at them. I
17 have a preference for announcement returns as the most
18 informative about expected values. I'd prefer measures of
19 actual cash flow changes from mergers as an ex post measure
20 of success (with the caveat those changes are very hard to
21 calculate).

22 Now, a little bit more theory, and then I'll get
23 to the results. When you measure the change in stock value
24 at the announcement, what you actually measure is the change
25 in the value of the acquirer, (which, as seen in the slide
26 on the bottom of page 3 of my handout is) A^A minus A^0 , plus
27 the change in the value of the target, T^A minus T^0 . (All of

1 these are market values.)

2 Now, this can be decomposed into A^A minus A^N (the
3 value of the acquirer afterward minus the value of the
4 acquirer once you have new information about the acquirer
5 that comes with the bid) plus T^A minus T^N (the value of the
6 target after the acquisition minus the value of the target
7 once you have the information in the bid about the target)
8 plus A^N minus A^O (the value of the new information about the
9 acquirer) and T^N minus T^O (the value of the new information
10 about the target).

$$\begin{aligned} 11 \text{ Change in Value} &= (A^A - A^O) + (T^A - T^O) \\ 12 &= [(A^A - A^N) + (T^A - T^N)] + [(A^N - A^O) + (T^N - T^O)] \\ 13 &= [\text{Total synergies}] + [\text{New information}] \end{aligned}$$

14 The short description of this equation is that the
15 announcement returns contain an estimate of the total
16 synergies and any new information revealed by the bid about
17 the acquirer and the target. As a result, any particular
18 merger announcement does not necessarily just pick up the
19 synergies.

20 With this in mind, let's go to the empirical work.
21 First, let's look at a summary of the finance literature, as
22 shown in the slide on the top of page 4 of my handout. The
23 best paper of which I am aware is by Andrade, Mitchell and
24 Stafford in the Spring 2001 Journal of Economic
25 Perspectives. They look at all acquirers and targets that
26 were in the merger database of the University of Chicago
27 Research and Security Prices database over a 25-year period.

1
2 As shown in the slide on the bottom of page 4 of my
3 handout, they first look at a three-day period around the
4 announcement. They find that the combined returns over that
5 period are economically and statistically significant and
6 positive. The combined values of the acquirer and target
7 increase by 2% of the total initial value of the acquirer
8 and target. This is equivalent to an increase that is 10%
9 of the initial value of the target alone. This result is
10 consistent across all three decades, the '70s, the '80s and
11 the '90s.

12 The returns to the targets are clearly positive. The
13 returns to acquirers are slightly negative, but not
14 statistically different from zero. The combined returns are
15 positive. If one were to judge merger success only by the
16 acquirer return, one would conclude mistakenly that mergers
17 did not create value on average.

18 If you use a period that's a little longer - 20 days
19 before the announcement until the merger closes - the
20 combined returns are positive, but no longer statistically
21 significant. Again, they are roughly 2 percent of the
22 combined value, but because of the extra time, you get more
23 noise. And again, the returns to targets are positive; the
24 returns to acquirers, slightly negative, but not
25 significant. The table from their paper appears in the
26 slide on the top of page 5 of my handout.

27 Now, turning to the slide on the bottom of page 5 of my

1 handout, recall that acquisitions reveal information about
2 the acquirer and the target that may change expectations.
3 This is, as I said before, clearly relevant for stock
4 performance studies. It's also potentially relevant for the
5 accounting-based studies.

6 When or how is information about the acquirer likely to
7 be in an acquisition? Theoretically and commonsensically,
8 an acquirer is more likely to use its stock to pay for an
9 acquisition when the acquirer believes its stock is
10 overvalued or fully valued. In practice, one might
11 interpret an acquirer as believing its stock is overvalued
12 when it says that it plans to use its stock as currency.
13 Conversely, the acquirer is less likely to use equity when
14 it believes its stock is undervalued.

15 The point of this discussion is that the revision in
16 the underlying value of the acquirer - A^N minus A^0 - is
17 probably negative when an acquirer uses equity to finance an
18 acquisition. The measured combined returns in equity-
19 financed acquisitions include $A^N - A^0$, and, therefore,
20 likely underestimate the value of the acquisition. Because
21 there is likely to be less new information in cash-financed
22 acquisitions, the combined returns to those acquisitions are
23 arguably a better measure of the average value of
24 acquisition synergies.

25 To account for the informational differences in cash-
26 and equity-financed acquisitions, most studies look at those
27 two types of acquisitions separately. The slide on the top

1 of page 6 of my handout (again taken from Andrade et al.)
2 shows that acquisitions funded by at least some stock have
3 combined returns that are essentially zero. Acquisitions
4 funded without stock have positive combined returns.

5 I'm sure some people - including some on this panel -
6 will question whether announcement returns are meaningful.
7 It is true that there is noise or measurement error in the
8 announcement returns. Going back to my earlier point, the
9 information released by the acquisition announcement is not
10 solely about the value of acquisition itself.

11 It is important to stress, however, that if you look at
12 the correlation of announcement returns with what actually
13 happens in a large sample of acquisitions (see Kaplan and
14 Weisbach (1992) or Mitchell and Lehn (1990)), you actually
15 find a positive and significant correlation. It's not
16 perfect. The R-squared is not anywhere near one. But there
17 is a positive and significant correlation suggesting that
18 announcement returns are providing useful information about
19 merger success.

20 To summarize, as shown in the slide on the top of p. 7
21 of my handout, the bottom line of event studies is that
22 stockholders view acquisitions as creating value on average.
23 The combined returns are positive, particularly for non-
24 stock mergers. Announcement returns are predictive of
25 subsequent outcomes. The event studies are not very helpful
26 regarding the source of value change and the determinants of
27 success.

1 Longer run returns are shown in the slide on the bottom
2 of page 7 of my handout. These measure the returns to
3 acquirers for several years after the acquisition. The
4 bottom line from these results is that the value-weighted
5 post-acquisition returns to acquirers are indistinguishable
6 from zero. These represent the returns to those
7 acquisitions that are most likely to receive regulatory
8 scrutiny. Longer run returns to smaller acquirers - which
9 drive the equal-weighted return results - appear to be
10 negative. As with the short-term event studies, there is
11 some difference between stock and non-stock acquisitions.
12 Post-acquisition returns are greater for acquisitions that
13 do not use common stock. Also like the short-term event
14 studies, these analyses are not very helpful regarding the
15 source of gains or the determinants of success.

16 Next, we come to accounting-based studies. These
17 studies use accounting-based measures of performance, such
18 as operating margins - as Susanne and Mike did - and total
19 factor productivity - as Bob did. As shown in the slide on
20 the bottom of page 8 of my handout, the results from
21 accounting-based studies are all over the map.

22 Andrade, Mitchell, Stafford (2001) and Healy, Palepu,
23 Ruback (1990) claim to find positive increases in operating
24 margins or operating performance after an acquisition.
25 However, when one looks closely at the results, they are of
26 very modest economic significance. I would interpret their
27 results as not being powerful enough to find any meaningful

1 change on average. Maksimovic and Phillips (2001) and
2 Schoar (2002) use the LRD, Longitudinal Research Database,
3 data. The conclusions in the first paper are neutral to
4 positive while the conclusions in the second paper are
5 neutral to negative. As is well known, Ravenscraft and
6 Scherer (1987) find negative results although they largely
7 study mergers of the 1960s and 1970s.

8 So, the bottom line of the accounting studies is that
9 there is no clear overall relation between acquisitions and
10 subsequent accounting or productivity performance. It is
11 something of a puzzle in relation to the event study
12 results. The likely explanation is that the accounting data
13 are too noisy to isolate the effects of the acquisition.

14 Clinical studies are referenced in the slide on the top
15 of page 9 of my handout. In my paper with Mitchell and
16 Wruck, we calculate the annual cash flows and the value at
17 divestiture of an acquisition. We then compare the
18 discounted value of the cash flows and divestiture to the
19 pre-merger value. This provides a blueprint for doing this
20 type of calculation. The analysis for that particular case
21 also comes up with a different answer than the accounting
22 study analysis consistent with a great deal of noise in the
23 accounting study approach.

24 Determinants of gains and losses are shown in the slide
25 on the bottom of page 9 of my handout. The best paper along
26 these lines is the one by Houston, James and Ryngaert
27 (2001). They study 41 large bank mergers. They compare the

1 announcement returns of the mergers to the cost savings and
2 revenue increases projected by the banks -- the acquirers -
3 at the announcement of the acquisition. They find that the
4 announcement returns are significantly related to the
5 projected cost savings, but not related to the projected
6 revenue increases. (The revenue result suggests no evidence
7 of market power.) In other papers, there's some evidence
8 that related acquisitions do better than unrelated mergers,
9 although that is, again, somewhat mixed.

10 The last thing I'll talk about is the micro-
11 determinants of success, shown in the slide on the top of
12 page 10 of my handout. The large sample papers are not so
13 relevant here.

14 As Paul mentioned, I edited a book where the individual
15 chapters consist of clinical studies by different authors.
16 The results are sympathetic to what you've heard earlier.
17 Mergers seem to be driven by technological and regulatory
18 change. In successful mergers, the acquirer has a deep
19 understanding of the target, the organizational design and
20 structure is appropriate to the business, and the acquirer
21 introduces appropriate compensation and incentives.

22 Let me conclude by referring to the slide on the top of
23 page 11 of my handout. Do mergers create value on average?
24 My conclusion is yes. I rely on the announcement returns as
25 the critical evidence. They have been reliably positive
26 over the last 30 years.

27 The accounting-based studies are more mixed, but are

1 subject to more noise. The accounting-based studies also
2 would be less likely to pick up performance changes in
3 mergers driven by technological and regulatory change.
4 Mitchell and Mulherin (1996) find that a large fraction of
5 merger activity is driven by such change.

6 Who gains, who loses? Target shareholders gain,
7 acquirer shareholders neutral.

8 How do you evaluate merger success? As shown in the
9 slide on the bottom of page 11 of my handout, the best way,
10 if you can do it, is to use the discounted present value of
11 the changes in cash flows from the merger. Ex ante,
12 announcement period returns provide some help there. It
13 would be better to find the changes in expected cash flows,
14 which is what many of you in the room end up trying to do.

15 Finally, what drives success? Cost cutting rather than
16 top line growth is our best estimate of that. A deep
17 understanding of the business, appropriate organizational
18 design and structures, and appropriate compensation system
19 and incentives improve the likelihood of success.

20 Thank you very much.

21 MR. PAUTLER: Thank you very much, Steve. We've
22 heard four different views about the rates of return or
23 gains from mergers from the various members of the panel. I
24 wanted to give them an opportunity to do a little bit of
25 rebuttal if they want. I've heard differences of opinion,
26 and I thought other people might want to comment. We could
27 go in our original order, I suppose.

1 Professor Scherer, would you be interested in
2 commenting?

3 MR. SCHERER: I'll comment disinterestedly.

4 (LAUGHTER)

5 MR. SCHERER: I guess I'll take them in the order
6 presented. Bob McGuckin emphasized the steel and petroleum
7 industries, which indeed were subject to all sorts of
8 international and technological and regulatory forces. From
9 that I don't think follows the necessity of merger to cure
10 the problem. In many cases, the necessary responses to
11 these changes could have been made equally well within the
12 firm. It takes an additional stretch of logic to show that
13 because one is impacted by some forces implies that the only
14 way to react efficiently to those forces is to merge. I
15 just don't think that's true, having studied the petroleum
16 and steel industries at great length.

17 On the studies that were done at the Census Bureau
18 with the longitudinal database, I didn't hear the full story
19 here, and frankly, I haven't followed it, but my
20 recollection, as of about 10 years ago, when I last looked
21 at these studies, was that there was a difference, yes.
22 Yes, there were productivity increases following merger.
23 But when you then broke down the sample between merger and
24 re-merger -- that is to say, you take a line that's already
25 been acquired, and then it gets sold off to somebody else.
26 For such acquired and resold lines, Ravenscraft and I found
27 productivity increases, and we found profitability

1 increases. My recollection is that either the people using
2 LRD couldn't make that distinction, or when they tried to do
3 so, they found that the first-time mergers didn't have that
4 same effect.

5 I question whether Hart-Scott-Rodino made all that
6 much difference in the regulatory environment, because the
7 FTC's Pre-Merger Notification Program existed from 1967 or
8 1968 on, and except for the mandatory delay, the Hart-Scott-
9 Rodino didn't add much at first.

10 Now, with Susanne, I think there's a kind of a
11 fallacy of composition. The assumption is, you've got a
12 problem and then the further assumption is you need a merger
13 to solve it. Well, that doesn't necessarily follow.

14 An anecdote. I was at a cocktail party a few
15 years ago, and I met a guy and we got talking. What do you
16 do? That's what you always talk about at cocktail parties.
17 He said, well, my little start-up firm has invented a net
18 router switch that is 100 times more efficient than anything
19 Cisco has. Oh, great. Are you going to develop it? You're
20 damn right we're going to develop it and we're going to make
21 a lot of money with it. Well, a couple of years later, I
22 read that Cisco has paid him a billion dollars to acquire
23 this switch.

24 This guy would have put that switch on the market
25 with or without the merger. And so, how can you say that
26 merger facilitated the technology that this guy had already
27 developed?

1 Steve said something to the effect that some of
2 the problems were that mergers need to be important enough
3 to affect the results, and that nothing else is changing.
4 Well, the methodology used by Ravenscraft and me made the
5 merger important in every case because we looked at the
6 individual line of business data, where for the lines that
7 had acquisitions, half of the sales, on average, were
8 associated with acquired activities, so we could control for
9 other industrial and even firm-level events.

10 About reliance on event studies, maybe I should
11 just read the Pope on this. What is an efficient market?
12 Let me quote the late Fisher Black in his presidential
13 address to the American Finance Association.

14 "We might define an efficient market as one in
15 which price is within a factor of two of value; that is, the
16 price is more than half of value or less than twice value.
17 The factor of two is arbitrary, of course. Intuitively,
18 though, it seems reasonable to me, in the light of sources
19 of uncertainty about value and the strength of the forces
20 tending to cause price to return to value. By this
21 definition, I think almost all markets are efficient almost
22 all the time. Almost all means at least 90 percent."

23 Now I quote myself rather than Black. If Black's
24 estimate represents the 90 percent confidence bounds about a
25 log normal distribution, for example, then 16 percent of
26 corporate stocks would be undervalued or overvalued by 34
27 percent or more by any time. That's a lot of noise.

1 MR. PAUTLER: Thank you. Bob?

2 MR. MCGUCKIN: I guess I want to deal with the
3 question of necessity. I mean, I don't think it's necessary
4 to merge to achieve growth or downsizing. I think the issue
5 is what is the most efficient way to do things. Unless
6 there are competitive problems, one would think -- and
7 indeed, if there is competition, one would expect business
8 to take the most efficient way to achieve changes brought on
9 by regulation and new technologies. And so, I don't ask the
10 question necessary. I think there are substitute ways of
11 doing things.

12 We did examine situations where people were able
13 to do downsizing, for example, without a merger, and that
14 happens and that's one of the controls in the model. But
15 that is not necessarily the relevant issue.

16 The other thing that I just want to be clear on is
17 that this is not just about cost inefficiency and managerial
18 discipline, it's about synergies. The vast bulk of the
19 mergers we examined -- and 10 years ago, Frank Lichtenberg's
20 research was finishing up and we were just getting started
21 were synergistic. As I indicated on my slide, you can
22 follow the divested firms. You can make those issues. But
23 synergies come from buying the good performers and making
24 them better. Those are the most numerous and typically the
25 smaller acquisitions in the database. And so, while we
26 don't cover the entire economy -- I covered manufacturing,
27 and manufacturing is a substantial and important part of the

1 economy.

2 Now, the last comment I'll make will, as Steve
3 suggested, push my own stuff. I have a paper that I did
4 about 10 years ago, "The Use of Stock Market Returns in
5 Antitrust Analysis of Mergers." It's, unfortunately, not
6 well cited -- it's in the Review of Industrial Organization.
7 It's work that I did when I was with Rick Warren-Boulton at
8 the Department of Justice and another, unfortunately
9 deceased gentleman, Pete Walstein, and when we left, we
10 never really finished the work. Although there is a lot of
11 noise, the results that Steve mentioned in terms of a big
12 bang for the acquiring and target firms were observed.

13 But we went and tried to look at the rivals. And
14 the way we did it was to estimate the probability of the
15 merger taking place during the event window time period
16 after the merger was announced. The technique worked pretty
17 well, at least in seven of the eight cases. In one merger
18 we had another event intervene. And we got reasonable
19 results. They compared favorably with what you might get
20 from a regular antitrust analysis. But they were very
21 difficult to implement. So, it's not a tool that you could
22 use in all mergers. We had to go to over-the-counter
23 stocks. You have to get a competitor, a real rival, and
24 it's only that piece of the firm which is anti-competitive
25 that is relevant.

26 So, I think there is information in the stock
27 market, but I don't think it is practical to use it alone.

1 Indeed, I think all the approaches we have been discussing
2 have information content. Taken together, they give a
3 presumption that most mergers are pretty successful in the
4 sense of moving resources from lower to higher valued uses.
5 But, they are not necessarily successful for shareholders
6 of the acquiring firms, even though they generate a lot of
7 profits.

8 MR. PAUTLER: Thank you. Susanne?

9 MS. TRIMBATH: Well, Mike threw down the gauntlet,
10 so I guess I have to pick it up and run with it here.

11 I think the important thing to remember about that
12 example, Mike, (that the product could have been made
13 without a merger) is that even though the merger may not
14 have facilitated the production of the product, I guarantee
15 that the merger facilitated getting that product to the
16 marketplace. That's what the bigger firms can do that the
17 smaller firms can't.

18 Certainly, as Bob pointed out, I don't think
19 anyone is saying that mergers are the only way to get some
20 of these things done. What we are saying is that some of
21 these things get done with the merger in place.

22 There are a lot of things about mergers that we
23 don't know yet. For instance, the productivity gains that
24 Bob talked about, I'm wondering if he had controlled for the
25 fact that there was an overall increase in the rate at which
26 productivity in the United States grew during the same
27 period. So, how much of it was from mergers? I think a

1 lot. But individually, at the micro level, can we control
2 for that differentiation? That's hard to say.

3 By the way, Bob, I did read your paper. I didn't
4 cite it because I'm allergic to stock price studies. I
5 include stock prices as one of the potential measures of
6 both the characteristics of the targets and as a result of
7 the merger. Basically, what I found was that stock prices
8 are more reactive than predictive. In particular, if you
9 look at Pennsylvania after the passage of their anti-
10 takeover laws, which were absurdly strict, all companies
11 incorporated in the State of Pennsylvania had their stock
12 prices drop on that news. So, the prices were reacting to
13 the passage of the law and not to whether or not the
14 takeovers were efficient or inefficient or profitable or
15 anything else. So, I think that's an important point to
16 keep in mind.

17 Another thing that has not really been studied is
18 the characteristics of the buyers, and I think that before
19 we can say that we know why takeovers occur and whether or
20 not certain products will get to market with or without a
21 merger, I think we have to know a whole lot more about who
22 the buyers are and what their characteristics are.

23 We've spent way too much time looking at the
24 targets, and I think, generally, a lot had to do with the
25 stock price studies, because people were looking for stock
26 price bets. If you could identify the targets, you could
27 buy the portfolio, you could make a lot of money, because

1 target stock prices go up by 25 percent, et cetera. And I
2 think that that was very misleading.

3 I think it misled us as economists, as financial
4 analysts. It pointed us in the wrong direction. I think it
5 may also have misled management towards focusing far too
6 much on stock prices. I'm concerned about this. I think we
7 need to consider whether or not some of the most recent
8 problems that we had associated with stock prices and
9 corporate performance may have been the result of what
10 economists, in general, did by pushing stock prices as the
11 only way to measure firm performance.

12 And I'll stop there because I would definitely
13 like to take some questions from the audience.

14 MR. PAUTLER: Thank you. Steve?

15 MR. KAPLAN: A few comments.

16 I want to agree with what Bob and Susanne said about
17 mergers being better than the alternative.

18 Take the Cisco example. I teach a case on a switch
19 company that is trying to decide whether to do an IPO or
20 sell to Cisco. They decide to sell to Cisco. Two years
21 later, instead of having the \$200 million in revenues they
22 forecast they would have if they had done the IPO, the
23 division of Cisco that they have become has something closer
24 to \$1 billion in revenues. The point Susanne made that an
25 acquirer may have assets the target doesn't have was
26 certainly true in that particular example.

27 Of course, it's only an example and that's why you try

1 to look at the larger sample studies to find out what
2 happens on average. The event study evidence on acquisition
3 announcements isn't perfect, but it is positive on average
4 over many different time periods. There is no reason to
5 believe that the market has gotten it wrong for thirty years
6 and continues to get it wrong.

7 One last point concerns the LRD data. The most recent
8 studies that use that data (and use it comprehensively) find
9 mixed results. The paper by Schoar (2002) finds that target
10 plants in diversifying acquisitions become more productive.
11 However, existing plants of the acquirer become less
12 productive and the net effect is negative. The
13 interpretation of these results depends on what the acquirer
14 and target plants were expected to do before the
15 acquisition. On the one hand you could say the results are
16 positive because the target plants became more productive.
17 On the other hand, overall productivity went down.

18 MR. PAUTLER: Thank you, Steve. There are just a
19 couple of questions I'd like to ask and then I'm going to
20 throw it open to questions from the floor, which I hope
21 we'll have a little time for.

22 In hearing everyone discuss the returns to
23 mergers, we've got some differences of opinion there. But I
24 think, perhaps, everyone believes that the distribution of
25 returns is sufficiently wide. The FTC largely looks at
26 horizontal mergers, and we tend to only look in detail at
27 anywhere from 2 to 4 percent of those mergers - those are

1 the ones where we issue second requests for information.

2 Does the evidence from the large-scale studies
3 really help us analyze those individual cases or are we
4 going to have to think about the individual cases we're
5 looking at a little more like case studies? Because we're
6 looking at a very small piece of the merger activity that's
7 out there in the world when we sit in front of our 500 boxes
8 of documents, and our ability to go talk to darn near
9 everybody in the industry if we want to. We're really doing
10 case studies in a sense. I happen to find the large-scale
11 studies very interesting. I think they provide essential
12 background on mergers. But will they really help us a lot
13 in figuring out what we need to do on cases or do we have to
14 go to the case study work to really figure out the answers
15 we're looking for?

16 MS. TRIMBATH: I'll start on that for you, Paul,
17 because I think that the first thing you have to recognize
18 is that managers make mistakes. I always say, if managers
19 didn't make mistakes, we wouldn't need bankruptcy laws. But
20 they do and we do and that's why they're there because
21 sometimes managers make mistakes.

22 What the large-sample studies show you is that the
23 potential is there for these types of savings. My study,
24 and I think also Lichtenberg and some of the other work,
25 show that a lot of the savings is coming out of overhead. I
26 call it "cost-cutting for dummies" because almost any two
27 companies that get together can find cost savings just

1 basically from the overhead, without reducing output,
2 without reducing employment or anything else. But, do they
3 actually get there? That's where you're going to have to
4 look at the specific companies involved, as to whether or
5 not they have the capability.

6 In this case you almost become like venture
7 capital investment bankers having to evaluate the management
8 of the two companies as to whether or not that individual
9 firm has the capability of recognizing the savings
10 potential. But I think the large-sample studies show you,
11 by and large, where these types of efficiency gains can be
12 had, and then in the case level study, it's a question of
13 whether or not that specific company is capable of finding
14 it.

15 MR. PAUTLER: Anyone else care to take a shot at
16 that?

17 MR. SCHERER: Yeah. There's a tremendous spread
18 of outcomes. What you referred to as large-scale studies
19 means statistical studies, and what they reflect is the
20 average tendency. There's a lot of disagreement among us as
21 to what that average tendency is. I'm obviously, at one
22 extreme of the spectrum, not only from my own work, but from
23 the work of Dennis Mueller and many others, Len Weiss and so
24 forth. These are, to be sure, older mergers. I don't know
25 what's happened in the last 10 years. But at the time I was
26 looking at the situation, it seemed to me that the spread
27 was such that on average, mergers didn't yield much in the

1 way of superior efficiency.

2 Now, to deal with a merger in an antitrust
3 context, yes, indeed, you are doing a case study and the
4 evidence is very difficult to analyze, to get together and
5 to analyze. I've been involved in several of these myself.
6 The Youngstown Steel/Jones & Laughlin Steel one is
7 interesting because I've documented it both before and
8 after, and again, the efficiencies that were predicted
9 before turned out to be very, very different from the
10 efficiencies that I found in my follow-up case study
11 actually to have happened.

12 Where the so-called broad ranging or statistical
13 studies come in, I think, is in devising tiebreaker rules.
14 A company makes an efficiencies defense, the evidence is
15 ambiguous, you don't know. Is it going to lead to
16 efficiencies or not? That's where the tiebreaker rule comes
17 in. If, on average, you think that mergers yield
18 efficiencies, then the tiebreaker ought to say, allow the
19 merger, all else equal. If, on the other hand, on average,
20 mergers neither yield efficiency nor make things worse, then
21 the tiebreaker would say, let's let our skepticism overrule
22 the ambiguous evidence.

23 MR. MCGUCKIN: The reason I brought up fix-it-
24 first is I think it is important that you look at specific
25 mergers and they are case studies. You're not going to get
26 those from the broad studies, and I agree with Mike on that.
27 But I guess I would argue that, given my read of the

1 evidence, that the presumption is that mergers move
2 resources in useful ways and they're efficient.

3 We're never completely sure when we decide whether
4 a merger is anti-competitive. We're making guesses about
5 entry barriers and foreign competition and whether there's
6 power to raise price. So, that ought to at least look a
7 little bit toward the burden of proof and I think that
8 coincides with what Mike just said, except I would come at
9 the burden a little differently.

10 MR. PAUTLER: I'd like to get some questions from
11 the audience. Anyone? Alden?

12 MR. ABBOTT: Yes, one general question. Isn't the
13 relevant question really not on average are mergers
14 efficient, but would regulatory and legal changes that make
15 it more or less difficult to merge affect productivity or
16 efficiency in positive or negative ways?

17 Because even if one found, on average, there's no
18 real effect, that doesn't tell you the effect of the
19 existing ability to merge on the incentives of firms that
20 aren't merging to maintain productivity. It doesn't tell
21 you what would happen if merging somehow were made more
22 difficult because of, say, going to 1960s antitrust
23 standards or securities laws that made it more difficult to
24 merge. Isn't that a relevant set of questions to examine?

25 My name is Alden Abbott. I'm in the Bureau of
26 Competition at the FTC.

27 MR. KAPLAN: That's a very relevant and important

1 point. The best example of this is probably the hostile
2 takeovers in the '80s. The raiders, buyout firms, and
3 hostile bidders arguably had a large effect on corporate
4 management at companies that were not attacked. In many
5 cases, companies attempted to pre-empt hostile takeover bids
6 by implementing the same changes that raiders or hostile
7 acquirers would have brought.

8 MR. PAUTLER: Anyone else?

9 MS. TRIMBATH: I'll just make one comment. There
10 have been studies done that show that management performance
11 is more closely related to turnover during active corporate
12 control markets. So, it is important that we not limit the
13 ability of firms to take part in M&A.

14 What affects the level of activity is the
15 financing being available; a lot of that is controlled by
16 regulation; also as I shared earlier, the state anti-
17 takeover activity has an impact. But, clearly, the link
18 between management retention and firm performance breaks
19 down during periods when the potential for M&A activity is
20 reduced by some type of regulatory interference.

21 MR. PAUTLER: Anyone else? Dave?

22 MR. SCHEFFMAN: Yeah, there was certainly some
23 disagreement here amongst the researchers, but I suspect
24 there may not be as much disagreement on what we do. So,
25 I'll ask Steve the following question. I think you have a
26 different view than Mike about the overall average effect of
27 mergers. But let me tell you where we live. We're looking

1 at a typical merger which is, say, four-to-three in a
2 concentrated industry protected by entry barriers. As the
3 Chairman said, that's not enough for us to believe that we
4 have a problem. But, suppose we have some basis of concern,
5 customer complaints, documents and other sorts of things.
6 Yet the case is not a slam dunk -- not a clear case, as
7 efficiencies are not going to overcome a very strong case,
8 but one in which we have reason to believe there's a
9 problem.

10 Based in your assessment, is it your view that we
11 put our thumb on the scale for that case if we have an
12 efficiency story that's not very well documented or proved?
13 Or should we go the way Mike said, and err on the other side
14 assuming that in this situation the merger might actually be
15 anti-competitive?

16 MR. KAPLAN: Let me begin by saying that without
17 more details, it is really impossible to answer that
18 question. How large are the potential efficiencies? How
19 large are the potential anti-competitive effects?

20 That said, other things equal, the empirical evidence
21 with which I am familiar tends to favor the efficiency
22 effects rather than the anti-competitive effects. For
23 example, in the paper that studies the large bank mergers,
24 the results suggested that the market ignored the top line
25 growth estimates (which would presumably represent anti-
26 competitive gains), but, instead, focused on the cost
27 savings. The large sample evidence as well as the case

1 studies I have looked at also suggest that anti-competitive
2 effects are more difficult to find or obtain than efficiency
3 effects.

4 MR. PAUTLER: I think we had one more, perhaps,
5 mini-rebuttal from Professor Scherer.

6 MR. SCHERER: Well, I wanted to answer more on the
7 last question, although maybe I'll put a footnote on what
8 Steve said.

9 For the period that Ravenscraft and I studied,
10 which ended about 1975 or so, there were very few legal
11 barriers to merger except for the antitrust laws, which were
12 interpreted in a very tough way, much tougher than today,
13 against horizontal mergers and also against vertical
14 mergers. Now, that definitely had an impact on merger
15 activity. It biased merger activity in the direction of
16 conglomerate type mergers. And what Ravenscraft and I found
17 was that these were the mergers that most likely led to loss
18 of managerial control and inefficiency. So, there's a nexus
19 of causation that I think is important.

20 Now, what really surprised me, reading my book
21 over again after 15 years, was that the horizontals had
22 almost the same kind of degradation of baseline
23 profitability and cash flow as the conglomerates. That was
24 surprising to me. I've learned enough in 15 years that I
25 didn't think I'd find that. I thought I'd find something
26 else.

27 Why? Again, the antitrust laws had an impact

1 there, I think, because the antitrust laws forced any
2 horizontal mergers we've got in our sample to be so small
3 that they were going to be innocuous from the point of view
4 of enforcers. And our study showed the small guys who were
5 acquired had very high profitability. So, therefore, after
6 the merger, there tended to be a degradation of
7 profitability -- from superior levels to roughly normal
8 levels. So that, I think, is how policy and merger effects
9 interact.

10 Now, let me just say a thing about financial type
11 mergers and cost savings. I don't doubt for a moment that
12 they've yielded cost savings, but is service worse after
13 merger? I want to refer, again, to the survey results
14 reported by Business Week. It was on p. 10 of their August
15 6, 2001 issue.

16 Anderson Consulting conducted a survey in June,
17 2001 that compared customer dissatisfaction ratios involving
18 companies that merged within the last six months to those
19 that did merge within the last six months. And you find
20 systematically -- cable companies, Internet service
21 providers, cellular phone companies, long distance
22 companies, local phone companies -- you find in all cases
23 more dissatisfaction with service for those companies that
24 have recently had mergers.

25 All I can say is, yes, I've lived it
26 experientially.

27 MR. PAUTLER: Thank you. We're just about out of

1 time. I'll take one more very quick question. Bill?

2 MR. KOLASKY: Bill Kolasky, Wilmer, Cutler and
3 Pickering. That last line I felt particularly amusing, if
4 not perhaps a little annoying. If you look at some of the
5 detailed case studies that have been done of some of those
6 mergers, particularly in the telco industry, you'll find
7 exactly the opposite of that.

8 AARP, which was an opponent of both the Bell
9 Atlantic/Nynex merger and the SBC/PacTel merger, did a
10 detailed retrospective study of the results of those mergers
11 and found, (a) that they delivered more in the way of cost
12 savings than the companies had promised, and (b) that they
13 resulted in significantly improved service for customers of
14 the acquired companies. So, I think you need to be very
15 careful before you look at a slide like that.

16 The second thing I question for Mike Scherer is,
17 isn't your book really more of an indictment of conglomerate
18 merger policy 25 years ago than it is a useful study of
19 horizontal mergers? Wouldn't you agree that our management
20 control systems are far more sophisticated, in part because
21 of computer technology and information technology, than they
22 were in the period 1965 to 1974?

23 And then the final question that I have is, one of
24 the things I found interesting about the panel is that we
25 were talking either at massive studies that were looking at
26 merger outcomes on average or case studies of individual
27 mergers. What I'd be interested in hearing about are

1 industry-wide studies. I think there was one reference to
2 bank mergers, which would be such a study. But, for
3 example, one area where we've seen a lot of merger activity
4 over the last 20 years has been those industries that have
5 been recently deregulated, and in almost every case,
6 deregulation was followed by a massive consolidation, a real
7 merger wave. A very good literature review by Cliff Winston
8 in the Journal of Economic Perspective found that those
9 industries' prices, not just costs, but prices came down on
10 average, from 35 percent in some industries to as much as 70
11 percent in other industries. I'd be curious if you're aware
12 of any studies that try to disaggregate the effects of
13 deregulation to show how much of those cost savings and
14 consumer-benefiting price reductions resulted from
15 consolidations and mergers? Thank you.

16 MR. SCHERER: I guess that was directed towards
17 me, and there were several sub-parts. The first thing,
18 haven't our control systems for conglomerates become much
19 more effective in recent years? The leading conglomerate,
20 in view of what I've seen in the news lately, is TYCO
21 International. I guess they had a pretty good control
22 system. They controlled all the profits into Mr.
23 Kozlowski's pocket.

24 Didn't the antitrust laws affect merger activity?
25 Yes, indeed, as I said in my previous answer, they did.
26 They biased it away from horizontals and to the extent that
27 there were horizontals, they involved relatively small

1 horizontals. The study by Ravenscraft and me and lots of
2 other studies indicate that it's the larger horizontals that
3 are more likely to yield efficiencies.

4 Now, this leads me to a point. I've been pushing
5 for an efficiencies defense since 1975. I think it's a good
6 thing. One of the reasons -- it's not the only reason I
7 think it's a good thing -- but one of the reasons I think
8 it's a good thing is that, like the prospect of hanging in a
9 fortnight, it wonderfully concentrates the mind. I've seen
10 an awful lot of mergers on which I've done case studies in
11 which the managers just didn't think about how they were
12 going to wrest efficiency from the subsequent post-merger
13 situation.

14 When you go into a merger unprepared, unthinking,
15 you're liable to have bad results. So, the very fact of a
16 merger efficiencies defense may wonderfully concentrate the
17 mind to get better results.

18 MR. KAPLAN: Let me take the industry question.
19 There's a paper by Mitchell and Mulherin (Journal of
20 Business 1996) that looks at how mergers concentrate in
21 particular industries. Their results (as well as those in
22 the Winston paper you mentioned) are strongly supportive of
23 your observation that regulatory or technological changes
24 affect merger activities.

25 MR. MCGUCKIN: Just one comment. I tried to
26 emphasize it earlier. All this work, whether you're dealing
27 with stock markets or you're dealing with a full firm or

1 you're dealing with pieces of a firm, you're dealing with
2 accounting or productivity measures, ensuring scientific
3 validity with controls is very difficult.

4 One of the things that I think we have to
5 recognize is that while you can get these correlations,
6 getting causation is tricky and controlling appropriately to
7 be sure you get the right effect when many things are
8 related is very difficult. So, you just shouldn't minimize
9 that and I think that comes through all our work. It's an
10 attempt to control and that's what you need to do. Broad
11 generalizations, which I made this morning, come after lots
12 of studies and reading.

13 But to nail it down, in particular, with respect
14 to Cliff Winston's work which you mention let me restate my
15 comment from earlier. When I showed you that Hart-Scott-
16 Rodino slide and said the increase in productivity after
17 1977 showed that the merger law change improved things, I
18 was very careful, I hope, to say I can't prove this.

19 MR. PAUTLER: I want to thank all the speakers for
20 Panel 1. We're going to now take a short break and I'd like
21 to reconvene at 11:25 if we can do that. Thank you very
22 much.

23 **(Whereupon, at 11:15 a.m., Panel 1 was concluded.)**

24