

1 **This transcript has been lightly edited for clarity**

2 AFTERNOON SESSION

3 (12:00 P.M.)

4
5 LUNCH PROGRAM: ECONOMICS COMES OF AGE AT THE FTC

6
7 SPEAKERS: JONATHAN B. BAKER

8 LUKE M. FROEB

9 DAVID T. SCHEFFMAN

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11 MODERATOR: PAUL A. PAUTLER

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13 MR. PAUTLER: Welcome back to the FTC's
14 Celebration of its 90th birthday. At this lunch
15 session, we're going to have a number of eminent
16 economists speak. In your program you'll notice
17 that Luke Froeb is going to be the moderator, but since
18 he wanted to say so much, it was inappropriate for him
19 to be the moderator, and so I've taken over that role
20 briefly.

21 I just wanted to give a quick introduction for
22 our three speakers today. Dave Scheffman is our only
23 two-time ex-FTC Bureau of Economics (BE) director. He was
24 director from 1985 to 1988, also from 2001 to 2003. He's an
25 adjunct professor of business strategy and marketing at
26 Vanderbilt University and is currently working with LECG.

1 Dave will start us off and then speaking second
2 will be Jon Baker who is also a former BE director from
3 the 1995 to 1998 period. He's a professor of law at
4 American University's Washington College of Law, and
5 like a lot of good FTCers, he's been here before.
6 He was here during the 1985-'86 period when he worked as
7 an assistant for Commissioner Calvani, and so both Dave
8 and John are two-time FTCers.

9 And speaking third will be our current bureau
10 director, Luke Froeb, who hasn't been at the FTC other than
11 his current stint, but he was, of course, at the Department
12 of Justice before as a staff economist, and he will be going
13 third.

14 So, to start off, Dave?

15 MR. SCHEFFMAN: Thank you, Paul.

16 In my own mind, I've aged enough so that I've
17 gone from being merely obnoxious to an older curmudgeon,
18 and that allows me to prattle about metaphysical issues
19 which I'm going to do a little bit today before the
20 serious economists start.

21 On Metaphysics: I think the title of this session
22 (Economics Comes of Age at the FTC) is very interesting.
23 I don't know who arrived at the title, I was thinking
24 what does this mean? I think as an economist, it means,
25 we may have thought it meant, well, we're at the central
26 stage of the FTC, which is not true. We have become more

1 important over time and I'll talk about that, but I think
2 "coming of age" means that economists and economics have
3 become important enough to the FTC that we have to play by
4 the same rules as everyone else, that is within the legal
5 system, and that our opinions have to be vetted in the same
6 way, not just by economists, but by judges and lawyers,
7 and I think the economists are still learning the reality
8 of playing in that game rather than playing in a game with
9 just economists, which most of us do in our professional
10 life as economists.

11 There have been lots of accomplishments by the
12 Bureau of Economics. We had a whole soiree last year, the
13 100th anniversary of the Bureau of Corporations, where
14 those accomplishments were discussed and we sold it, it's
15 on the website and you've heard a lot about it. Of course
16 in my view much more of this 90th anniversary celebration
17 should have focused on economics, but we had our own soiree,
18 and so I refer you to it and you've heard at a number of
19 sessions the contributions of the Bureau of Economics. The
20 Bureau of Economics is a very special place with a lot of
21 really talented dedicated people, and really provide a lot
22 of the continuity within the Commission, because there's
23 less turnover, particularly among senior people in
24 economics, than there is with the FTC's lawyers.

25 So, in BE's Division of Consumer Protection, for
26 example, there's some very important people that have been

1 here forever and have been through all sorts of cases and I
2 see some of them in the audience. And they're very
3 important. The same is true on the antitrust side of the
4 bureau.

5 Well, economics matters now, I think that that's
6 not controversial anymore. I think virtually everyone
7 accepts that you need, and antitrust has, an economics
8 framework, and that framework is actually applied in cases
9 likely to end in litigation. If we talk about
10 antitrust, which is a lot easier than the consumer
11 protection side, we clearly rely on core economic
12 principles, the assumption of profit maximization and
13 the theory of monopoly are the core economic principles
14 on which there's really no controversy.

15 I think we have an economic framework, the trick is
16 to usefully apply economics to the facts and institutions at
17 hand and realize that you're doing it in a forum in which
18 it's not vetted by economists, it's vetted by lawyers and
19 judges. That's the trick, and I think we're still learning
20 how to do that.

21 Most of you in the audience are lawyers, and you
22 know that economists have trouble understanding that
23 economics is the framework, not the answer, that lots of
24 types of evidence and analyses are important in most cases
25 beyond the economics, and we're not the experts on those
26 sort of things like evaluating the credibility of documents

1 or witnesses or customer opinions, et cetera, even though
2 those sorts of pieces of evidence might be important to our
3 economic opinions.

4 And of course the lawyers always point out that
5 on any case you have, you're going to have economists,
6 usually competent economists on both sides of the
7 matter, and so obviously in economics, you couldn't
8 determine on economics alone, in a complicated case.
9 Economics can inform and certainly be important in the
10 decision, but it's obvious that economics can't give you
11 the decision.

12 So what do economists do? They use the
13 scientific method of economics, or at least they should,
14 form hypotheses, choose facts and data, perform
15 analyses, and make their economic conclusions and then
16 feed it into the legal system, and have it vetted, and it
17 gets whatever weight the fact finder and/or the prosecutor
18 decides.

19 The adversary system works well here, I think.
20 I think it's perfectly appropriate that you have
21 economists on both sides of things. I think you should
22 want that. I don't think you would certainly want to
23 have a situation where a judge just told a single economist
24 to come to a conclusion on a matter as opposed to interpret
25 the results put forward by competing economists on the
26 matter.

1 So, I think the legal system works very well,
2 and economics is not a science, particularly our area of
3 economics, industrial organization economics is not part
4 of science in which empirical verification has played a
5 very big role, and the reason is it's very difficult to
6 get the data to do testing, although we're getting more
7 of that, but we don't have a lot of empirical testing or
8 proof of basic hypothesis, particularly those that are
9 central to antitrust. I'll talk about that in a little
10 bit.

11 The adversary system works well here because the
12 adversary system speeds things along a little faster
13 than it does in the journals. The focus isn't
14 necessarily on economics, but the criteria is not the
15 same, administrability and other things are very
16 important, and so the adversary system is good for
17 economics.

18 I think my main concern is that so much of
19 merger policy is really regulatory, it's not determined
20 by litigation. Few cases go to court, and you don't have
21 discovery the way you do in private litigation. I think
22 that's the problem in mergers, and I'll talk about that.

23 Economics moves forward. It's not static. New
24 research brings new knowledge. That new research is
25 often applied quickly within the agencies, and that's
26 good. I think the problem is that the new theories and

1 the agencies can get ahead of the real testing of the
2 theory.

3 In industrial organization economics over the
4 past couple of decades, as compared to its earlier years
5 where the empirical analysis was the foundation of the
6 science, and unfortunately that empirical research we
7 found in the end was actually all wrong, but a lot of
8 people believed it for a long time.

9 In the last 20 years, industrial organization
10 has been predominantly theoretical. And the advances have
11 been theoretical, and theory has certainly outstripped
12 the ability of empirical analysis to catch up, and the real
13 testing that goes on in industrial organization (IO) is
14 antitrust litigation. And I think that has to be true
15 to have a sensible antitrust policy.

16 We have some case studies, I came to the commission
17 in 1979. We had the cereals case, we had the Ethyl that I
18 worked on, we had coffee, we had many of these other
19 monopolization cases. That was really the first time that
20 economics began to take the center stage. Those were
21 very carefully thought out economics-based cases. And all
22 of them failed.

23 And I got a good lesson from that coming as a
24 much younger theorist at the Commission at that time,
25 and having not much experience in this sort of thing,
26 and I'm afraid that we may have forgotten that lesson, in

1 that most of us aren't as old as me, and weren't around when
2 those cases were around, and didn't read the decisions and
3 didn't really think about wrestling with the issues that the
4 fact finder had to wrestle with in the cases, even though
5 the theories were in some ways pretty straightforward.

6 So, we have a past where economics really achieved a
7 central role at the Commission, and it was good for
8 economics, it was good for the law in that it straightened
9 out a lot of stuff, it wasn't good for the respondents, I
10 don't think, but a tremendous amount was learned from those
11 cases, and I'm concerned that economists, particularly
12 younger economists, don't go back and revisit those cases
13 and read the decisions. I think they could learn a lot
14 about the practical aspects of applying economics in complex
15 situations.

16 So, we have the monopolization cases, in which
17 the air was really cleared, think what IBM did, and think
18 about cereals. You don't have in hardly any cases, serious
19 argument about using profitability as an indicator of
20 whether something bad is going on. There was a tremendous
21 advance in that, and it all arose basically from Frank
22 Fisher working on the IBM case and publishing a paper saying
23 "wait a minute, you can't use profit rates." And that
24 pretty much won the day.

25 There were other important things we learned about
26 our ability to bring conduct cases, what was procompetitive

1 or not. Interestingly, the TIO2 case was really based in
2 what was the new IO at that time. The father of the new
3 IO, Michael Spence, had written a paper on strategic entry
4 deterrence through capacity expansion or other things,
5 that was exactly what the TIO2 case was about. At the FTC
6 conference in 1979, Michael Spence said, well, "wait a
7 minute, you need to think about this, this is more
8 complicated than you realize." And that decision came out
9 shortly after the conference.

10 So, the monopolization cases were a very important
11 source of new learning. I think we need to remember
12 those things, and where I want to connect the dots is that
13 the problem is these days (if there's a problem), hasn't
14 been in monopolization cases in the recent ones, it's been
15 in the merger cases where it may be that theory has gotten
16 ahead of what it can actually prove.

17 Now, as I said, antitrust economics is fundamentally
18 tested in litigation, the problem is it's very slow, and
19 then the frequency of testing in the courts is low, and to
20 get to the punchline on this at the end, which I think a
21 very good example of that are the two recent cases, Arch
22 Coal and Oracle.

23 And I'll say with disclosure, I did a lot of
24 work on Oracle, so I have a lot of opinions about that,
25 but I think both those cases make very clear that where
26 the cutting edge in cases is complex market definition,

1 in the case of Oracle, and particularly competitive
2 effects analysis, and what you can really do and
3 convince the judge of are the key issues, and I think those
4 cases, in some ways, aren't very different from lots of
5 cases, a number of cases that the agencies pursued over the
6 last ten years or more in the analysis that was done, but
7 those analyses were never vetted, because they didn't go to
8 court. They were settlements. They were settlements or
9 abandoned.

10 In those two cases, what was a pretty garden
11 variety approach, you had come with the theory about
12 there's an effect somewhere in this market, and in some
13 ways you're not so careful about how you actually define
14 the market, and you have a case. And economists support
15 that, because the economists focus on effects, and what
16 the court said in Oracle and Arch is wait a minute, you
17 have to spell out with more specificity and convincing
18 evidence that fits within the framework of the law.

19 Briefly on consumer protection, economists have
20 made enormous contributions to consumer protection and
21 they still do. I don't think that this is understood on
22 the outside. Certainly the deception statement and
23 unfairness statements were greatly informed by
24 economics. Economists still have a big role, there's
25 important people in the Bureau of Economics which BCP
26 lawyers always go to on any sorts of major cases.

1 That's a very important role, too, where the economics
2 is much more difficult, the economics of information in
3 consumer protection is much more difficult.

4 So, economics has an important role, it's good.
5 I think it's good that we are tested within the legal
6 system. I think that when we have losses that we need
7 to, just as the lawyers go back and think about, well,
8 is the theory in this case properly applied, or do we
9 need to think more about the theory that we think is
10 easy in a given factual situation and spell it out with
11 more detail, and make it convincing to the fact finder.
12 Thank you.

13 (Applause.)

14 MR. PAUTLER: Now we'll hear from Jon Baker.

15 Oh, by the way, after everyone speaks, we will
16 let each of the participants take a shot at each other, then
17 we will take questions.

18 MR. BAKER: Thank you, Paul, and I'm glad to be
19 here again. Nice to see all of you.

20 I thought for my opening presentation I would talk
21 a little about the problem of case generation, and some of
22 the history of how that worked out at the Agency, and
23 particularly with the Bureau of Economics.

24 If you think about where antitrust cases come
25 from, other than the fact that you have these Hart-Scott
26 filings, and you have to look at them, they basically

1 come from complaints from somebody outside the Agency or
2 some development in the world or a story in the trade
3 press that gets someone's attention.

4 And with that kind of approach to case
5 generation, it's hard to know what the enforcers miss.
6 Is the FTC catching most violations? Or only a small
7 fraction? Or only the ones that you go after, are they
8 worse than the ones that you didn't find? From a social
9 welfare point of view, how do you know?

10 Bill Kovacic talked yesterday about inadequate
11 planning, so has the Agency been captured by the trivial
12 in the way Bill referred to it, by virtue of what's come
13 in through the door, rather than finding where the
14 problems in the economy are and going after those cases?

15 Now, the IRS worries about this a little, too.
16 Are they collecting all the taxes? Sometimes I think they
17 -- I don't really know this fully, but I have the impression
18 that they have occasionally done random audits of certain
19 classes of firms just to find out what they're missing.
20 The FTC can't really do that practically, and I think
21 technically the FTC has the authority to subpoena new
22 information for research; but that's not going to happen,
23 just to find out how we're doing on case generation.

24 And it's natural for the economists to think
25 that there ought to be some better, more systematic way
26 to proactively find good cases that would complement

1 what is normally a reactive method of relying on
2 complaints.

3 So, I studied up a little on some of the past
4 efforts and I know about some of them myself. I talked
5 with John Hilke and Paul Pautler and a little bit with
6 Jack Kirkwood who was a lawyer in BC for a long time,
7 all of whom had extensive FTC experience. My sense is
8 that none of the efforts of case generation have had
9 particular success, but they're all interesting, and
10 it's not something that we should stop trying to do.

11 There are basically three main approaches
12 historically to looking for cases, and two of these
13 three just essentially involved the Bureau of Economics, and
14 the third did heavily as well.

15 The first was to look at industries where profits
16 were high. Market power would seem to create super-
17 competitive profits. This was the strategy for case
18 generation associated with the line of business programs
19 by which a number of conglomerate firms were asked to
20 provide accounting data that was disaggregated by industry
21 during the 1970s.

22 Now, this program had broader ambitions than
23 case generation. It was intended in part as a tool to
24 do empirical industrial organization research, but its
25 case generation promise was that we could find the markets
26 where the firms seemed to be earning super-competitive

1 profits persistently, and then think about what was the
2 source of those and whether there was market power being
3 exercised and how to attack it.

4 In practice, it was never actually used
5 systematically that way. As I understand it, there were
6 no cases that were actually generated using the line of
7 business data as an initial screen, but the data was used
8 to confirm that a case that was found in some other way
9 might have made sense, that the Bureau of Economics memo
10 might talk about profit rates or some of the determinants
11 of entry barriers like perhaps advertising to sales ratios,
12 that they thought were creating entry barriers, or look at
13 R&D intensity and understand those features of the
14 accounting data as guides to how the industry was working.

15 The program only lasted a few years. Firms
16 complained about the special accounting requirements and
17 the program lost political support. The values of the
18 data is less clear now than it once seemed, as David
19 alluded to, we economists have come to question how far
20 you can go in inferring economic profits from accounting
21 data, that the wedge between what the accountants are
22 measuring and what the economists want to measure might
23 be too large.

24 So, the second general approach to systematic case
25 generation, on the economic side is -- I would describe
26 as "let's look for industries with structural

1 characteristics that are conducive to coordination." This
2 is what the Agency lawyers and economists, as I understand
3 it, tried to do in
4 the 1980s. They looked for concentrated markets with entry
5 barriers and then factors for facilitating collusion,
6 the sort of list that you're used to, homogeneous
7 products, perhaps, or industry excess capacity, or
8 transactions that were open and small so that you could
9 expect to detect police cheating rapidly and
10 effectively. That sort of thing.

11 As I understand it, a lot of time and energy was
12 also put into this effort at the Agency, but it didn't
13 produce any cases either. Part of the problem is that
14 in order to conduct a screen, you have to define the
15 markets, but that's hard to do without having done the
16 investigation. In the normal industry, where you had a
17 complaint or whatever, you would conduct the
18 investigation, and then figure out how to define the
19 markets.

20 And part of the problem is, "what practices do you
21 challenge even if you found a market where you thought
22 there was a problem?" That's a general problem of all
23 three cases, as you'll see.

24 The third effort of case generation that I wanted
25 to mention was my idea, so I like it the best. We tried
26 this out when I was director of the Bureau of Economics.

1 I talked about this in more detail in the symposium that
2 we economists did in September 2003 on the 100th Anniversary
3 of the Bureau of Corporations; that is on the FTC website.

4 The Bureau of Labor Statistics collects
5 pricing index data for all sorts of industries, and it's
6 disaggregated by SIC code, even more narrowly than the
7 four-digit SIC codes that many of you might have seen,
8 sometimes five, seven, at times even nine-digit SIC
9 data. So, it's very narrow, closer to the size
10 of markets that we end up defining in antitrust.

11 We looked for price increases that might
12 have occurred around the trough of the most recent
13 recession. The idea was if prices are rising from
14 around the trough of the recession, it was probably not
15 on average because input costs were going up, or because
16 the firms were hitting capacity constraints -- the fact
17 that this was around the trough of the recession,
18 generally would have tended to control for that -- but it
19 was more likely because of the exercise of market power
20 as an industry where demand grew less elastic as the
21 recovery began, so that the firms who had an ability to
22 exercise market power could take advantage of less
23 elastic demand in those industries and raise price.

24 And so we identified hundreds of industries to
25 look at, and I think it was Denis Breen, who I see here, and
26 Ron Bond, and me picked about 25 of them arbitrarily to

1 study further. We divided them up among the staff
2 economists to go look at them for a couple of days and
3 report back.

4 In most of these industries, it turned out
5 that there was a plausible explanation for why their
6 price rose. Costs had actually increased,
7 notwithstanding on average that you wouldn't expect that
8 to happen, but when you looked more specifically it
9 turned out they did. Or maybe the BLS data didn't
10 adequately control for quality improvements. But I think
11 we found three out of the 25 where we couldn't find any
12 other explanation for the price increase than market power.

13 We thought about investigating -- getting the Bureau
14 of Competition involved to investigate these three. Well,
15 it turns out that it was inappropriate to investigate two of
16 them. One of them, for example, the Department of Justice
17 -- I think the Commission asked for clearance and it turned
18 out that DOJ had a bunch of Grand Juries regarding price
19 fixing.

20 So, the Bureau of Competition investigate the
21 third, and I think the way they went about it is they
22 asked the companies for documents that would explain the
23 price changes around the period that we were looking at.
24 And then after looking at this, they concluded that
25 probably it really was the exercise of market power,
26 there was no other good reason that they could find in

1 the documents, but there wasn't anything that the
2 Commission could do about it. They didn't identify an
3 agreement or a facilitating practice to challenge or
4 anything like that, and so they closed the
5 investigation.

6 And so ultimately this approach to case
7 generation came up empty, no cases. Now, I thought
8 we had proven the technique was viable we had three good
9 possibilities out of 25, and if it hadn't been for the
10 merger wave, I would have asked the staff to go and look
11 at 25 more and see what we came up with there. I think we
12 had 600 or so possible candidates.

13 So, I still think this is a good approach
14 for systematic case generation, but I can't stand here
15 and tell you that it's been, a proven demonstrated success.

16 This is a way of saying that there's really
17 something interesting that comes from thinking about the
18 process of case generation like economists, what economists
19 can bring to the table. Consistent with what Dave was
20 suggesting before, different eras have different
21 perspectives, there's a different consensus in the
22 profession about what a sensible approach is to identifying
23 good cases, and the accounting data that was once thought of
24 as a very attractive vehicle for doing so is less thought so
25 today. Probably in the future someone will come up with a
26 different approach all together based on new developments in

1 economics, but something that ought to still be tried, and I
2 hope that the 180th anniversary of the Commission we're up
3 here talking about their successful attempts at case
4 generation.

5 (Applause.)

6 MR. PAUTLER: And we will now hear from our
7 current bureau director, Luke Froeb.

8 MR. FROEB: Thank you, Paul. Paul is one of the
9 keepers of the flame at the Bureau of Economics, and his
10 knowledge of the history of the place is just
11 unparalleled, and so whenever I try to do something
12 stupid he lets me know about it, and I want to thank him
13 for the mistakes that I haven't made and not blame him
14 for the ones that I have.

15 I want to play the role of ghost of Christmas
16 future right now and I know that Johnny Ramone died this
17 week, I don't know where you were when you heard, but
18 anyway, he was in Rock N' Roll High School, my favorite
19 line was I don't care about history, because that's not
20 where I want to be. So, today I want to talk about where I
21 think economics is going in the Bureau of Economics and how
22 we're going to get there.

23 And I don't want to disagree hardly with
24 anything. I thought I was going to, so this may not be
25 as interesting a discussion session as you thought, but I
26 want to agree with things that Dave has said and about the

1 importance of empirical work.

2 Empirical work in academia is a real problem that
3 I observed first hand when I fly home every other weekend
4 to go teach at Vanderbilt. When I get there it's really
5 depressing, because academia is so sterile. We divide
6 up problems into such narrow little pieces that nobody's
7 interested in the answers, and it's depressing the
8 direction the field has taken, because I think it's
9 making itself largely irrelevant, which has led Bobby Willig
10 to say that never before has antitrust economics been so
11 important to the field, but never before have economists
12 been so irrelevant to the field.

13 And so the point of this talk is try to figure
14 out what role can economists play and how can we
15 make ourselves more relevant? The great thing about
16 this job for me has been the people here and I want
17 to acknowledge all the people who have contributed in some
18 way to this talk.

19 And I want to talk a little bit about the
20 movement from form-based analysis to effects-based
21 analysis, both in antitrust and consumer protection.
22 And in mergers, this has been a theme for the -- and
23 again, I'm not as conversant with the history of the FTC
24 as my colleagues here, but certainly you can trace the
25 development of merger analysis from simple share-based
26 analysis to the 1992 revisions that brought competitive

1 effects to the forefront, and then the 1997 revisions
2 were supposed to give efficiencies more weight in the
3 analysis.

4 I think the jury is still out on whether or not we
5 evaluate efficiencies properly in our work you heard
6 some comments to that effect yesterday. And I want to talk
7 a little bit about vertical restraints, where we've gone
8 explicitly from per se condemnation of various forms, is
9 this an exclusive deal, to an analysis of the effects of
10 the vertical restraints, and this has paralleled changes
11 that are under way in the European Commission.

12 We tend, in the United States especially, to focus
13 on the disagreements between the EC and the U.S., but I
14 think the similarities are much more significant, and
15 just recently the EC has adopted new merger guidelines.
16 They've gone to something very close to an analysis of
17 the effects of mergers, SIEC, substantial impediments to
18 effective competition criteria, and in vertical analysis
19 in Article 81 they have gone to an analysis of the
20 effects, including the efficiencies.

21 And to implement these changes, they have hired
22 a chief economist and put an economist at the very top
23 of the organization chart (where they belong, incidentally),
24 to ride herd on the attorneys. And the theme of this talk
25 is that economists are trained to estimate effects. This is
26 what we do, and there's two basic ways to do it. One is we

1 can begin with good, natural experiments that mimic the
2 effect of whatever we're looking at, the effect of the
3 merger, the effect of the vertical restraint.

4 Alternatively, we can use a model-based approach.

5 And finally (you heard about this yesterday), the
6 importance of enforcement R&D, following up on what
7 we're doing so we can develop better practices about
8 what we're doing. This is a chart that many of you have
9 seen before. This is our enforcement data for 1996 to
10 2003 covering the Pitofsky and Muris regimes, and the
11 interesting thing about this is that concentration seems to
12 be significant, but it's not the only factor.

13 We block most mergers to monopoly. For three to two
14 mergers, there's a significant number that we let through.
15 For four to three mergers, it's about 50/50. Above that, we
16 let them go through. That's basically what the analysis
17 says.

18 And the reason we let them go through is because
19 of the competitive effects. Market share is a screen, but
20 often we can't get through the competitive effects analysis.

21 And recently we've started doing merger
22 retrospectives. This is another chart that some of you
23 have seen before, Dan Hosken and Chris Taylor did a
24 merger follow-up on the Marathon/Ashland joint venture,
25 and this was a fairly big merger in an isolated product
26 market that used reformulated gas, so there were no

1 close substitutes.

2 So, if you were going to see a merger effect,
3 you thought you would see it here, and on the horizontal
4 axis is plotted time and on the vertical axis is price,
5 and well, compared to what? That's the methodological
6 problem. So, we used the premerger period as the control,
7 the postmerger period as the experimental period, and then
8 you say, well, what other things could have accounted for
9 that change?

10 Well, to control for the other unobservable
11 factors, you measure the price relative to prices in
12 similar markets, and the three lines there are the price
13 in Louisville relative to Chicago, Houston and Virginia,
14 and we don't see much of a merger effect, or certainly
15 the variance swamps any kind of merger effect.

16 Vertical integration. Where we're going in
17 vertical integration is towards the analysis of effects.
18 Well, we have to figure out what the effects of vertical
19 integration are, and there is a surprising amount of
20 empirical literature on this. Using the analogy of a
21 natural experiment, we had an experimental group that
22 mandates vertical disintegration of refiners with gasoline
23 stations. There's six states that do that, Hawaii,
24 Connecticut, Delaware, Maryland, Nevada and Virginia,
25 and our own District of Columbia, and we have a control
26 group that are vertically integrated, and what do we

1 find, that the prices are higher in the group that makes
2 them vertically disintegrate.

3 And this corresponds with an enormous amount of
4 literature in the franchising area, where vertically
5 integrated firms are found to have much lower prices.

6 Finally, I don't want to leave out consumer
7 protection where we've gone from maxims that, well, more
8 information is better, or in the health area, more
9 information is worse, because people might use it, and
10 towards, trying to figure out what's actually happening in
11 these areas. What are the effects of the information
12 disclosures or prohibitions?

13 And in the health care products, Pauline and
14 others at the bureau have done some remarkable research
15 showing that if you let people advertise the health
16 benefits of food, and they do, and that leads to
17 consumers making more healthy choices. And this line of
18 research has lots of implications for the coming
19 debates, the coming obesity wars into which the FTC will
20 be dragged.

21 And the final thing I want to say is poorly
22 designed information disclosures can harm consumers.
23 And here I want to talk about the research of Jan
24 Pappalardo and Jim Lacko, who analyzed some of the
25 information disclosures on mortgage loans, and they
26 found that when you design an experiment where you show

1 consumers an information disclosure and then you show
2 them another information disclosure that has the broker
3 mark-ups -- the one has just the loan information, the
4 basic loan information like the APR. The other form has
5 the same information plus the disclosure mark-ups -- we
6 found that consumers get confused when you show them too
7 much information.

8 And it was really incredible to me that 40 percent
9 of the people couldn't identify the cheaper loan when you
10 showed them the mark-up because they focused on the mark-up
11 and said I don't want the brokers making that kind of money.
12 And so they made the wrong choices. And if you've got that
13 kind of disclosure, what's that going to do to competition
14 if consumers can't even identify the lower-priced product.

15 Anyway, that's where I see the future of
16 economics in analyzing the effects of these various
17 proposals and less towards the legal approach as well.
18 Let's put these behaviors in little boxes and label one
19 anticompetitive and one pro-competitive and call it a
20 day, whereas the economists say, well, we would like a
21 much more flexible approach where you actually look at
22 the effects of these things.

23 (Applause.)

24 MR. PAUTLER: Now we'll give the participants a
25 chance to comment on the others' presentations and then
26 we'll have a couple of questions.

1 MR. BAKER: I have a comment on what Luke had to
2 say. First, his talk reminded me of another Ramone
3 line, "I want to be sedated." No, I'm just kidding.

4 (Laughter.)

5 MR. BAKER: No, I have a serious comment, which
6 is that there's a movement -- I wrote an antitrust case
7 book with Andy Gavil and Bill Kovacic, we wrote what we
8 think of as a modern case book that's different from the
9 earlier case books that are widely used, partly because it
10 takes seriously the modern appeals cases, but partly because
11 it reflects a change in the way antitrust law is framed
12 in the courts. We called it a movement from categories to
13 concepts.

14 It's really quite similar to what Luke was talking
15 about here, that the focus in the modern appellate cases
16 isn't any more on identifying the pigeonhole you put a case
17 into so much as what the theory of harm is. You can see
18 that, for example, in Judge Posner's JTC petroleum case.
19 What Judge Posner is interested in is what's the story by
20 which you can understand why the conduct could be harmful to
21 competition. It involves excluding a maverick firm as a
22 means of cartel policing. He's not interested in whether
23 you want to call it a group boycott or price fixing or
24 vertical or horizontal for that matter, he's really
25 focusing on "what's the story."

26 All this came about not just because of the

1 influence of economics, which has been very important,
2 and I agree with Luke about that, but also, this is
3 really the thing I learned in writing the book with Bill
4 and Andy, is the subtle and deep influence of the
5 Brunswick decision in 1977, which for those of you who
6 aren't lawyers here, is the first decision that
7 introduced antitrust injury as a requirement, in a narrow
8 way, but it's since grown to encompass
9 much of what goes on in antitrust litigation.

10 By forcing a plaintiff to articulate a theory,
11 a theory by which his injury grows out of the violation
12 essentially, what the courts are forcing plaintiffs to
13 do is articulate the economic theory of why competition
14 is harmed. It's what brought in all of the economic
15 analysis into the courts, importantly, and pushed this
16 movement from what we called category to concepts and I
17 think what you called "form to effect," and I view it as
18 quite a similar idea.

19 MR. FROEB: I do not endorse sales of his book.

20 MR. BAKER: I was going to talk about your book.

21 MR. SCHEFFMAN: Come on, too much kissy face
22 here, guys. Let me give a contrary note here, a little bit
23 to what you and Luke said. Let me attack your book, Jon.

24 (Laughter.)

25 MR. SCHEFFMAN: No, Jon and co-author's book is
26 a very nice book and I consult it regularly, but, you

1 know, I once consulted it to try to find a detailed
2 analysis of market definition, and I couldn't find it.
3 And because in my view a lot of economists have
4 advocated that market definition is really superfluous
5 and likely to lead you the wrong way.

6 I strongly disagree with that and I'll pick up a
7 little bit of what I said earlier. We have a whole
8 legal structure of case law based on defining markets
9 and measuring share and concentration, and that's been
10 improved by we're much more sophisticated in defining
11 markets which are really relevant to competitive
12 analysis, more careful about measuring shares and
13 concentration, and then we've added on top of that when
14 you start with that then you have to have a story as to
15 why, say, a merger is problematic. I think that's a
16 very sensible approach. And dispensing with it leaves you
17 out in an area where economists might be comfortable with
18 it, but have difficulty actually providing answers.

19 And so we have problems in cases in which,
20 especially in unilateral effects cases, or price
21 discrimination cases, where we're talking about what in
22 the guidelines talks about effects within the market.
23 The courts have trouble, "wait a minute, I understand how
24 to define the market and the shares and the concentration,
25 and I'm used to a story where I'm connecting that directly
26 to effect in the marketplace, but this effect within the

1 market, sort of thing, unilateral effects, what is that
2 animal?" I understand unilateral effects if it's a dominant
3 firm where the share is big enough. But aren't you really
4 saying that there's some -- and this is a struggle within
5 the agencies -- aren't you saying that the market is a lot
6 narrower than that and why don't you just define it that way
7 and the problem is that for many cases it wouldn't seem to
8 pass the laugh test.

9 So, I think the reality of the juris prudence is
10 you have to define markets and shares, and so you have
11 categorize and put stuff in boxes in that sense. And
12 what economists in my view have to realize is that's the
13 way the game works, and there's good reason for it, it's
14 not going to change in any event, and we've got to spell
15 out and be more articulate and prove theories that fit
16 within that framework. That's something that we haven't
17 done a good job with, on, up until now.

18 MR. BAKER: I just have to mention the slur on
19 the case book. If you consult chapter 5, you will find a
20 discussion of market definition.

21 MR. FROEB: But Dave, don't you think that
22 market delineation gets in the way of a good competitive
23 effects story? I mean, for example, in an auction
24 market where every product is unique and you've got a
25 good unilateral effects story -- that for some subgroup
26 of customers these are the first and second best choices

1 and that you get an effect in those cases -- don't you
2 think market delineation gets in the way of that
3 competitive effects story?

4 MR. SCHEFFMAN: It gets in the way of economists
5 telling the story, but it's a real problem for judges
6 who want to articulate a market and identify the
7 entities that are affected as opposed to saying, well,
8 they're out there somewhere, clearly. I think that's
9 the problem. And that's the reality of the law, I think
10 we see judges struggling with that problem in some of the
11 recent cases. And in my view it's good that we have to do
12 that. And economics has to go further than it has in
13 being able to help the analysis and the development of
14 facts for those sort of cases.

15 MR. BAKER: I think Luke would say that even in a
16 coordinated effects analysis in merger cases he would
17 define the market, and I think Dave, there really is a lot
18 of economic content to market definition and I think you
19 do this all the time when you define markets.

20 If you think about what we do when we define
21 markets, under the guidelines we're looking at buyer
22 substitution. That's the economic force at stake in
23 answering the question as to whether the hypothetical
24 monopolist would find it profitable to raise price or
25 whether be defeated by the buyers going to alternatives
26 outside the market.

1 There are all sorts of aspects of economic
2 evidence that are relevant to answering that
3 question. Some of it is very quantitative, if you
4 look at what did buyers do in the past when prices
5 rose, and what did you learn from that if prices rose
6 now. You can survey the buyers or, ask them the kind
7 of questions that Dave was asking. You can understand
8 the distribution of buyer characteristics and switching
9 costs and product characteristics and model the process of
10 buyer choice
11 and then model whether in response to an increase in
12 price how many buyers would switch.

13 All of that is heavily economic and empirical.
14 There are other things we do in market definition that are a
15 little less heavily technical on the economic side. We ask
16 the firms themselves, we look at what they monitor, at what
17 they respond to, and we assume that we were trying to infer
18 from that what they think buyers will do.

19 And the same thing when we talk to industry
20 experts about the industry, but those are a little less
21 in the data and more what do experts think, but a lot of
22 what we do in economics is very heavily empirical in market
23 definition.

24 MR. FROEB: I think the problem is that market
25 delineation is about drawing bright lines where none
26 exist and you're always going to find somebody on the

1 wrong side of the line, depending on whether you're
2 working for the plaintiffs or the defendants, if you
3 draw a bright line where none exists. And it's not the
4 same question.

5 If we're trying to figure out if a merger is
6 anticompetitive, that may only be tangentially related to
7 the problem of market delineation and that's where I think
8 it really can focus the investigation on exactly, largely
9 irrelevant piece of information.

10 MR. PAUTLER: I just want to ask the panelists here,
11 along these lines, if part of the problem here is having
12 sufficient data so you can do away with the market
13 definition boxes. Isn't it true that we're still a long way
14 from having a sufficient amount of data on markets, even
15 probably consumer goods markets, to get there in the near
16 term and we're going to still be using the market definition
17 boxes and devices to think about the competition issues
18 until we get to the point where you can actually
19 empirically get down to the bottom line effects. I just
20 think that we're probably some decades away from getting to
21 that nirvana.

22 MR. SCHEFFMAN: Well, what economists are
23 advocating it's hard to imagine is going to happen
24 without -- as I keep saying, you economists better
25 understand that things work in a certain way and the market
26 definition is really important. I don't think you're going

1 to get retained as an expert and say well, I don't need to
2 try to define a market. The Department of Justice tried
3 that once in a merger case and it didn't work very well.

4 We use markets and thresholds that we lose sight of
5 in mergers, that we look at in vertical, it would be
6 senseless to abandon market definition and share. Because I
7 guarantee you
8 could find some guy with a little two percent share that
9 moved to an exclusive territory and the price went up
10 because of it and that's probably why they wanted to do it,
11 because they wanted to have services, the usual story, you
12 would have a case. You would have an effect for economists
13 to say, well, yeah, I've got an effect, the practice led to
14 the effect, I don't need to worry about market or share.
15 There's the effect. So, we obviously have --

16 MR. FROEB: But you control for the quality and
17 the services. I mean, that would be the story. If you're
18 measuring the effect, you can't just look at one effect.

19 MR. BAKER: The question here is whether the
20 direct evidence from the prices and all that Luke was just
21 talking about is so powerful, so convincing, and controls
22 for everything you need to control for, et cetera, that you
23 do not need to make inferences about market power from
24 market concentration. There will be some cases where it's
25 more probative than others. And my guess is there are a lot
26 of cases where Dave is right and you still want to look at

1 the market, and there will be some where Luke is right.

2 MR. FROEB: I agree that it's such a cop-out to say
3 "it depends" but it does. And in some cases market
4 delineation is a perfectly worthwhile exercise, and in
5 others I think it gets in the way, and most importantly, it
6 diverts scarce enforcement and judicial resources from the
7 real issue.

8 MR. PAUTLER: Since we're here to think about
9 history, there's one bit of history in the economics of
10 antitrust that I've been interested in, and all of the
11 members of the panel here have some background in it.

12 It's the effects of the economic consulting
13 industry. It's a growth industry started in the 1970s,
14 and obviously you can see it on K Street and you can see
15 it in College Station, Texas in the '70s, and it's grown
16 up now and I was just wondering if our panelists have
17 any thoughts about what the effect of the economic
18 consulting industry has been, whether it affects the way
19 the agencies behave, and whether it's a leader or a
20 lagger in bringing economics into antitrust.

21 MR. SCHEFFMAN: Let me say briefly, these are
22 good jobs. These aren't hamburger flipping jobs.

23 (Laughter.)

24 MR. SCHEFFMAN: They could be outsourced,
25 though, maybe, so there are a lot of very good Indian
26 and Pakistani economists, to say nothing of other places

1 of the world. And some of us make almost as much money
2 as lawyers, so what's not to like?

3 Economic consulting has really had a profound
4 impact on industrial organization. Again, we're talking
5 about studying, studying a topic in which only as a
6 consultant can you ever get access to the details that you
7 would really like to know about how companies and industries
8 really work. You don't have that as an industrial
9 organization economist. Very few industrial organization
10 economists do business consulting for companies, and even
11 then it would be relatively few.

12 So, there's just been a tremendous expansion and
13 knowledge in the profession, both because of what's
14 happened in the Agency and outside. And so we have, you
15 know, really brilliant people, like Bobby Willig who
16 made tremendous contributions to antitrust, and those
17 contributions have certainly been stimulated
18 significantly in part because of his consulting
19 experience, you learn much more about the way things
20 work.

21 So, it's been beneficial for the discipline for
22 how economics understands the competitive process and
23 competition and that's informed antitrust we have much
24 more literate, we know so much more than the 1970s when
25 we really thought there were simple oligopolies and we
26 discovered actually there are not. There are

1 oligopolies, but gee, they're a lot more complicated
2 than we thought. And we've learned much and much more
3 of that over the last 25 years of HSR and antitrust
4 litigation.

5 And it does help the agencies, I think, it does
6 keep the agencies honest to help them make more right
7 decisions, (and it does mostly make right decisions), to get
8 economic arguments coming from the other side. I think the
9 Agency economists inside learn from that and listen to that
10 and a number of times the consultants on the other side have
11 pioneered analyses that the Agency economists have seen.
12 That's pretty interesting, we'll do that. Most of the
13 innovations have actually come from within the Agency.

14 MR. BAKER: I don't have quite as a uniformly
15 positive view of the consulting economics as Dave does.
16 I think it's clear that economics actually channels
17 scholarly research in industrial organization away from
18 sort of basic R&D and towards application. And I think
19 you see that where the top IO economists spend their
20 time. Some of the leading consultants
21 essentially stop participating in the academic
22 conferences and start on their cases and it's where they
23 get their data, it's where they get their ideas, it's
24 where they do their work, but they're not doing what
25 they would have done otherwise.

26 You see that and some of that in the blurring of

1 lines between research and advocacy, where companies are
2 funding directly or indirectly policy research. That,
3 too, is channeling the research towards applications.

4 And in the research end of economics, I wonder
5 whether an example wouldn't be Luke's really good work on
6 merger simulation tools and antitrust merger models. I
7 don't know what Luke would have done if he didn't have
8 antitrust problems as his focus. Had he not chosen how to
9 think about how to evaluate mergers on the antitrust laws.

10 And there's some other effects, too, that are a
11 little more ambiguous. I think that the consulting
12 profession essentially brings a lot more resources,
13 money and good students into the IO field. And that's
14 good for the IO field, but whether it's good for
15 economics as a whole depends on what they would have
16 done instead. And whether these folks would have had a
17 more specially productive career like going to law
18 school and becoming antitrust lawyers.

19 MR. FROEB: I can tell you what they would have
20 done instead.

21 MR. BAKER: As far as what happens
22 at the agencies, it sharpens everybody's arguments and
23 that's good, on both sides of the case. But also
24 investigations are more complex and time consuming and
25 costly, especially when an arms race develops between
26 the agencies and the parties. Whether that's worth

1 the trouble, I think, is an open question, too. It's
2 certainly better that the case outcome gets better,
3 but again, you have to ask what those resources would
4 have been doing otherwise.

5 MR. FROEB: Let me try to answer that question.
6 I spend half my time back in academia flying back and
7 forth, and academia is so sterile you wouldn't recognize
8 it as doing anything useful for society. Academics are
9 rewarded for cutting up problems into such small pieces and
10 playing this theoretical game of gotcha. You're supposed to
11 come up with counter-intuitive results, regardless of
12 whether they're likely or not, and it's also a supply-driven
13 thing. You have a model and say, hey, I can modify that
14 model and get another model, and publish that. And you end
15 up with an answer to a question that nobody is asking.

16 And I think that the real benefit of
17 consulting is that it gives you the questions, and
18 so instead of starting with an answer, you start with
19 a question, and I think that's so rare in academia,
20 and the only thing that keeps academia grounded is the
21 fact that you actually have policy.

22 MR. SCHEFFMAN: Come on, Luke, you don't want to
23 tell your dean about that.

24 Most R&D, true upstream R&D is wasted, and
25 it's wasted in academia, that's true. But so the
26 productivity is low on average, but there are big hits,

1 so every year important papers come out on industrial
2 organization out of academics that move the ball and a
3 lot of them are very derivative and that's also true of
4 a lot of R&D that goes on in the private sector. But
5 it's the hits. We're looking at the wrong target. We
6 don't look at mobile --

7 MR. BAKER: And sometimes the questions
8 that aren't being asked are the ones that ought to be
9 asked.

10 MR. FROEB: Necessity is the mother of
11 invention.

12 MR. PAUTLER: Well, I'm not sure that we'll ever
13 get the question solved about what the optimal amount of
14 R&D is, but I think we do know that we are finished with
15 this panel and I would like to thank all of the
16 participants.

17 (Applause.)

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