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UNITED STATES OF AMERICA
COMMODITY FUTURES TRADING COMMISSION

TECHNOLOGY ADVISORY COMMITTEE MEETING

Washington, D.C.

Tuesday, October 12, 2010

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4 GARY GENSLER, Chairman

5 MICHAEL V. DUNN, Commissioner

6 JILL SOMMERS, Commissioner

7 BART CHILTON, Commissioner

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1 P R O C E E D I N G S

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3 COMMISSIONER O'MALIA: Good Afternoon.

4 I would like to welcome everyone to the second
5 meeting of the CFTC Technology Advisory Committee.
6 During this meeting, we will continue our debate
7 regarding high frequency and algorithmic trading,
8 and focus on improving market transparency through
9 the deployment of swap execution facilities and
10 swap data repositories.

11 I would like to thank my fellow
12 Commissioners for their participation, and I would
13 like to welcome our Committee members. All of you
14 have taken time out of your busy schedule, and I
15 appreciate your participation to contribute to
16 this technology discussion.

17 I would also like to thank our
18 presenters, many of whom are Commission staff and
19 who have worked very long hours in their
20 respective rulemaking teams. I greatly appreciate
21 your participation and presentations, which I know
22 will contribute to today's debate.

1 Since our last meeting in July, Congress
2 passed and the President has signed the Dodd-Frank
3 Wall Street Reform and Consumer Protection Act.

4 This statute provides vast new authorities to this
5 Commission, most notably the comprehensive
6 regulation of the over-the-counter swaps markets
7 calling for mandatory exchange trading and
8 clearing of standardized swaps.

9 In addition, we will have the benefit of
10 a presentation by Dr. Kirilenko, an economist,
11 regarding the events of May 6. Dr. Kirilenko will
12 also present his academic paper that he has
13 co-written with several other authors, including
14 Dr. Kyle, a Committee member.

15 In developing the agenda for this
16 meeting, I focused on some of the most challenging
17 and technology-related questions facing this
18 Commission in light of the recent events and our
19 new jurisdiction. The first topic on high
20 frequency trading is not only obvious, but also a
21 continuation of our first meeting where we sought
22 to identify and establish appropriate controls on

1 high frequency trading.

2 The May 6 staff report identifies the
3 various roles computer trading strategies played
4 in the massive sell-off, and highlights the
5 interconnectedness of the futures and equity
6 markets. The staff report essentially concluded
7 that a large sell order in a very turbulent market
8 set off a chain reaction in the markets. In doing
9 so, it exposed significant and systemic flaws in:
10 (1) our market structures; (2) the stub quote
11 system; and (3) the resultant breaking of trades.
12 When a regulator steps in and breaks trades, we
13 have no choice but to question whether we have
14 failed in some manner. I also believe the payment
15 for order flow practice warrants further
16 investigation.

17 Another element of our first panel will
18 focus on the new statutory authority intended to
19 reign in manipulative and disruptive trading
20 strategies. Bob Pease, who is the CFTC lead on
21 the rule-making teams, will educate the Committee
22 on the new authorities. Although the inclusion of

1 these topics in one panel should not be read to
2 mean that there was any nefarious intentions at
3 play on May 6, it is appropriate to use this forum
4 to discuss the options available to the Commission
5 in dealing with computer aided trading strategies
6 that are disruptive to these markets.

7 Our third panel will focus on how swap
8 execution facilities can improve pre-trade
9 transparency in the marketplace. Understanding
10 our options and constraints with regard to
11 technology in these new trading venues is
12 essential to developing a flexible and lasting
13 market design that is responsive to innovation and
14 product evolution.

15 Finally, our fourth panel will address
16 the technological challenges relating to
17 post-trade transparency and the Commission's
18 ability to meet these challenges by deploying an
19 effective surveillance system to see across all
20 markets, trading platforms and clearing entities
21 to ensure risk is well managed.

22 On Sunday, 60 Minutes fortuitously ran a

1 story on high frequency trading that referenced
2 the May 6 staff report and its relationship to
3 computer based trading systems. I would like to
4 quote Larry Leibowitz, the COO of the New York
5 Stock Exchange, who appeared in the 60 Minutes
6 story. I believe Mr. Leibowitz accurately
7 captured our mission here today when he said, in
8 reference to high frequency trading, "We have to
9 do a better job. We have to make changes that
10 make sense that give people more confidence in
11 this market. Add more transparency. And make
12 people feel like this is a place I can trust my
13 retirement savings to."

14 I hope today's discussion will provide
15 specific recommendations as to how we can do a
16 better job and make appropriate changes that
17 instill confidence in these markets. The CFTC's
18 30 rule-making teams are working towards
19 recommending rules and creating standards for the
20 swaps markets, and today's hearing can help guide
21 the Commission and teams going forward.

22 I appreciate everyone's participation

1 here, and before we begin, I'd like to recognize
2 my other commissioners for their opening remarks.
3 Mr. Chairman.

4 CHAIRMAN GENSLER: Thank you,
5 Commissioner O'Malia, for chairing today's
6 Technology Advisory Committee. I also want to
7 thank my fellow commissioners for all their hard,
8 particularly as we move forward in the Dodd-Frank
9 Act.

10 As the CFTC works to implement
11 Dodd-Frank, it is essential that our rulemakings
12 take into consideration the rapidly evolving
13 technology in the marketplace. Rapidly changing
14 technology has been a feature of our markets for a
15 long time, of course. I mean, from the first
16 telegraph facilitating greater transparency in the
17 mid 19th century, and that really lead to the
18 ticker tape, as many of you know. Since even when
19 the Securities and Exchange Commission and our
20 predecessor were set up in the 1930s, we as
21 regulators have constantly had to remake our
22 regulations so that technology can be used to the

1 benefit of investors and end-users and help best
2 promote transparency and efficiency in markets.

3 While new uses of technology such as
4 algorithmic and high-frequency trading,
5 co-location and electronic trading facilities pose
6 additional challenges, they are not so different
7 from when the first telephone was brought onto the
8 floor of the Exchange, and I don't think anyone
9 here is old enough -- I am not -- but there was an
10 actual debate whether telephones would be allowed
11 on the floor of the New York Stock Exchange, and
12 for years they were banned. They were not
13 allowed.

14 In the 1990s, we had the internet. And
15 when the internet came around, we first had to say
16 how is this going to be used in the trading of
17 futures and securities. So As regulators, we need
18 to ensure that these advances in technology, just
19 like advances in past decades, help to lower risk
20 and promote transparency in markets rather than
21 going in the reverse direction.

22 That's why I'm so thankful that

1 Commissioner O'Malia reconvened this Advisory
2 Committee a number of months ago. In particular,
3 we get the benefit from all of our panelists here
4 and the advice that you have as we write rules
5 with regard to Dodd-Frank and as we consider
6 responses to the events of May 6.

7 I'm going to give a couple of for
8 examples, but what's the role that technology
9 should play in both pre-trade and post-trade
10 transparency? What is the appropriate balance
11 between electronic and voice trading for swaps as
12 we promote this pre-trade transparency? How
13 should we interpret the statute's requirement that
14 says real-time reporting should be "as soon as
15 technologically practicable." So it's a
16 technology committee and the word technological is
17 right in the statute. How should the CFTC use
18 technology to link directly to swap data
19 repositories? The statute says we get a direct
20 link, but also maybe to clearinghouses. How
21 should this evolving world of high-frequency and
22 algorithmic trading influence our new authorities

1 regarding disruptive trading practices? We'll
2 hear from the staff a little bit, but it would be
3 great to hear from you all.

4 In addition to what we're doing on
5 Dodd-Frank, I look forward, of course, to your
6 views about the unusual events on May 6. What
7 responses are appropriate to prevent such events
8 in the future? We're fortunate to have, and look
9 forward to have advice from a Joint Advisory
10 Committee that advises the SEC and CFTC with the
11 advice of this panel is certainly warranted and
12 looked forward to as well.

13 Specifically, should executing brokers
14 have an obligation to enter and exit the markets
15 in an orderly manner? Or if they do, at least on
16 the largest of orders, should they have some
17 obligation? Should they adopt certain trading
18 practices when executing such algorithms?

19 Would it be beneficial to increase
20 visibility into the order book in these markets?
21 And if so, how is the best technological way to do
22 it?

1 And then lastly, as we know from May 6,
2 there was a five-second pause at a critical
3 moment, but that algorithm itself, that, too, is
4 an algorithm, the five-second pause called stop
5 loss. I'm trying to remember exactly how we
6 called this thing. Stop-loss logic. But that,
7 too, is an algorithm. Might it have been better
8 if it was earlier or was triggered by different
9 events? And if so, what would be good?

10 So again, I want to thank the whole
11 committee and I look forward to your advice, and
12 thank you, Commissioner O'Malia.

13 COMMISSIONER O'MALIA: Commissioner
14 Dunn.

15 COMMISSIONER DUNN: Well, I too would
16 like to thank Chairman O'Malia for holding this
17 very timely Technology Advisory Committee meeting
18 today, and orchestrating 60 Minutes and a good
19 half-dozen clips this morning was just a stroke of
20 genius, Scott. My hat is off to you.

21 I would further like to thank those that
22 are on the panel today making presentations, and a

1 special thanks to the members of the Technology
2 Advisory Committee who will help the Commission as
3 we try to understand the impact technology is
4 having on all types of derivatives trading.

5 Dodd-Frank mandates the Commission to
6 promulgate rules in the area of data record
7 keeping and reporting, real-time reporting as well
8 as oversee swap data repositories and swap
9 execution facilities. All of these duties require
10 the Commission to have a greater understanding of,
11 and reliance on, technology. Investment in
12 technology hardware and the recruitment and
13 retention of qualified employees to deploy this
14 technology will undoubtedly strain the
15 Commission's budget. It's imperative that we
16 understand how to optimize the scarce resources we
17 have so we aren't left behind by the people we are
18 charged with regulating.

19 After the Flash Crash of 5-6 and with
20 the new disruptive trading practices and
21 anti-manipulation requirements in Dodd-Frank, the
22 Commission must understand the potential negative

1 impact that today's technology may have in our
2 industry. Weekly we hear concerns about
3 high-frequency traders and how they are affecting
4 the markets, both positively and negatively.
5 Phrases like "quote stuffing" and "spoofing" are
6 bantered about as the way algorithmic traders are
7 gaming the market place. Sadly, there is a real
8 concern that investors are sitting on the sideline
9 because they don't think there is a level playing
10 field. Perhaps my greatest concern is a runaway
11 algo will trigger a cascade of events by other
12 algo-driven traders that will totally collapse the
13 markets.

14 Many questions need to be answered. Who
15 is responsible for oversight? Who should be privy
16 to what the algorithms are based on? Should they
17 be regulated? How can they be regulated? Should
18 they be allowed at all? Hopefully, we will begin
19 addressing these questions today.

20 Once again, I thank Chairman O'Malia,
21 the staff and all the participants in helping the
22 Commission face these most important issues.

1 COMMISSIONER SOMMERS: Good afternoon.
2 I'll join with the rest of my colleagues by
3 thanking Commissioner O'Malia. At the last
4 meeting, I spoke about how the relevance of this
5 advisory committee could not be higher, but I
6 think that was even before Dodd-Frank was passed.
7 So I'll renew that statement today and say with
8 the items that are on the agenda that the
9 relevance of this committee has probably never
10 been higher.

11 The items we're discussing today are
12 several of the big ticket market structure items
13 from the Dodd-Frank Wall Street Reform Act as well
14 as the report from the May 6 flash crash. An area
15 that I'm very interested in, as are many other
16 market participants, is what the requirements of
17 trading swaps on a SEF will be. The CFTC and the
18 SEC heard a great deal of concern about this issue
19 from market participants at a joint round table on
20 September 15. The CFTC staff has recently
21 estimated that there could be over 40 entities
22 that may register as SEFs or designated contract

1 markets. The designated contract market model is
2 easy for the Commission and market participants to
3 deal with. We know how they work and market
4 participants know how they work. SEFs are new and
5 the relevant statutory language is not very clear.
6 When you read the new statutory language in
7 conjunction with the existing statutory language,
8 it raises some questions. I favor the view
9 expressed by many of the market participants in
10 the September 15 round table that the definition
11 of SEF must encompass multiple models and must be
12 flexible enough to allow several ways to buy and
13 sell contracts on SEFs.

14 Two other issues that the Commission
15 will address very soon relate to anti-manipulation
16 and disruptive trading practices. Much has been
17 said about how technology, and more specifically,
18 high-frequency trading impacts trading and whether
19 it's disruptive or manipulative. The work of this
20 Committee is very important as we move forward
21 with these efforts, and I certainly appreciate the
22 perspective and the input that you as committee

1 members will provide on these issues.

2 Other big ticket items from Dodd-Frank
3 are the requirements for swap data repositories
4 and real-time reporting. And it's so important
5 for us to have these types of forums as we
6 consider the appropriate policy responses to our
7 future's regulatory structure.

8 I recognize the enormous challenge we
9 face in comprehensively changing the regulatory
10 landscape, and I'm grateful for the industry
11 participation today and to Commissioner O'Malia
12 and his staff for organizing this meeting. Thank
13 you.

14 COMMISSIONER O'MALIA: Thank you very
15 much. Commissioner Chilton.

16 COMMISSIONER CHILTON: Thanks for doing
17 this, and thanks for your staff. There's an old
18 comic strip that some people may remember, Flash
19 Gordon. They made it into an animated series and
20 into a television series that was on the SciFi
21 Channel a couple of years ago. A buddy of mine
22 reminded me that when Flash Gordon started, they

1 called him Speed Gordon in Australia, because
2 "flash" at that time in the '30s was seen as a
3 negative thing, that there was a negative
4 association with it, that you would be flashy or
5 showy or even dishonest.

6 I'm not suggesting that flash trading or
7 robotic trading is in any way dishonest,
8 certainly. There's lots of great advantages. The
9 access and better audit trails, to name a few.

10 But it's certainly not showy, because
11 we're not shown anything about these algorithm
12 trades. Unless we ask, we don't know anything
13 about the trading programs, because it's
14 proprietary information. And I understand that
15 businesses need confidentiality and they need to
16 keep their competitive edge, but as we've seen,
17 this type of trading can impact markets and
18 possibly lead to problems.

19 So as regulators, it just seems to me
20 and folks that are concerned about these markets,
21 like you-all, it just seems that we need to get a
22 better handle on the trading, as my colleagues

1 have said, and look at it in sort of a
2 comprehensive cross-market fashion. I wonder
3 whether or not our agency should have people that
4 are specifically dedicated to looking at
5 algorithmic programs or looking at them in general
6 or whether or not people that use them should have
7 to make some certification that they meet certain
8 parameters. Should we as regulators or other
9 brethren regulators have any limits whatsoever on
10 this type of trading? I'm not saying one way or
11 another. I'm just raising questions.

12 Finally, there's some news stories this
13 morning about the flash crash, and that's good.
14 It's good that people question reports, and we
15 should expect that, and it should be welcomed, but
16 I did want to comment specifically on one issue
17 about the trade in question, that large trade my
18 colleagues have spoken about. There's news
19 articles that said it was potentially a
20 price-sensitive trade, and our report concludes
21 that it was not, that it was price insensitive and
22 didn't adjust during the algorithmic order flow

1 due to any price variation.

2 Most folks are aware that under our law,
3 the Commodity Exchange Act, we're prohibited from
4 revealing any information that would disclose an
5 individual trader's position, so we have to be
6 very careful, and sometimes people think we're a
7 little bit cryptic in what we're talking about,
8 but we have to be exceptionally careful in
9 publically addressing some of these particular
10 trades. That said, I just wanted to be real clear
11 that we're all well aware of the nature of the
12 algorithm utilized by us at the Agency, and we've
13 spoken with the executing broker for this trade,
14 and that analysis is accurately reflected in the
15 staff's report.

16 And there is another allegation in some
17 of the stories this morning that there was a
18 breaking mechanism. That's what they called it, a
19 breaking mechanism, indicating some type of price
20 sensitivity. All I'd say about that is that
21 there's been really an exhaustive analysis of
22 this, and Andrei can probably talk about it a

1 little bit later, but I'd caution against drawing
2 any specific conclusions. Just looking at the raw
3 data. What may appear to be an intentional
4 breaking could be accounted for with a number of
5 factors. Volume, for example, could have slowed
6 it down. So if you look at it this way, if you
7 see a car and it's slowing down, you might assume
8 that the driver has tapped the brakes, but in
9 reality, maybe the car has just hit a little bit
10 of an uphill grade, and that could slow it down.

11 So I appreciate that people are asking
12 questions about the report. I look forward to our
13 staff sort of giving us a more granular analysis,
14 but I have a lot of confidence in the good work
15 that they've done and the SEC has done, and based
16 upon what we've learned from the executing broker
17 in addition to the traders themselves. So I feel
18 like we're in a good place. So thanks very much,
19 Scott and your staff, for doing this, and I look
20 forward to the meeting. Thanks.

21 COMMISSIONER O'MALIA: Thanks. I have a
22 couple of housekeeping matters. This meeting is

1 being recorded, push to talk on the microphones,
2 and please refrain from putting any Blackberries
3 or cell phones by the microphone, because they
4 will cause some interference.

5 We're going to start with our first
6 panel presenters. We have Dr. Andrei Kirilenko,
7 the Senior Financial Economist with the Office of
8 Chief Economist here at the CFTC. Dr. Kirilenko
9 will present a summary of the May 6 staff report
10 to the Advisory Committee and an academic paper he
11 coauthored entitled, "The Flash Crash: The Impact
12 of High Frequency Trading on an Electronic
13 Market." Dr. Kirilenko also served as a CFTC
14 staff member in the Joint Staff Report.

15 We also have Bob Pease, a trial attorney
16 with the Division of Enforcement, and he leads the
17 team for -- the rule-making team for the
18 antimanipulation and disruptive trading practices
19 authorized up the Dodd-Frank bill. Mr. Pease will
20 explain the issues and policy questions
21 surrounding these new authorities, and in Tab 6 of
22 your books, we've provided the statutory

1 authority, so as Bob goes through and explains it,
2 you can read along in the statute and you'll
3 understand how difficult his job is going to be.

4 So we're going to start with Andrei and
5 move on to Bob, and then we'll open it up for some
6 discussion. Thank you.

7 DR. KIRILENKO: Thank you very much,
8 Committee Chairman O'Malia, Commissioners,
9 Mr. Chairman. There is slides that will probably
10 come up momentarily. I know when people call me
11 Dr. Kirilenko, I'm in trouble, so I'm expecting
12 some trouble from this.

13 So what I'm about to present to you is a
14 paper called, "The Flash Crash: The Impact of
15 High Frequency Trading on an Electronic Market."
16 It's coauthored with Pete Kyle, Mehrdad Samadi and
17 Tugkan Tuzun. It's publically available, and this
18 presentation and the views presented here are our
19 views. They're not views of the Commission,
20 commissioners or staff of the CFTC.

21 This paper is also referenced in the
22 report as providing the analytical foundation for

1 some of the statements that were made in the
2 report.

3 Just to recoup for you about the flash
4 crash, the picture that you've probably seen many
5 times, this is the picture of Dow Jones Industrial
6 Average, E-mini S&P and S&P 500 stocks started
7 moving together, falling down and then recovering.

8 Shortly thereafter, about a month and a
9 half after that, there was a company, Market
10 Strategies International conducted a survey of US
11 retail advisors, and about 80 percent of US retail
12 advisors at that time believed that, "overreliance
13 on computer systems and high-frequency trading"
14 were the primary contributors to the volatility
15 observed on May 6. So this prompted us to look
16 more specifically into what happened in there, and
17 some of what happened is in the report that you
18 see in the position on September 30. Also has a
19 section on the E-mini, and the analytics are in
20 the paper that was issued on October 1.

21 So what I will discuss today is
22 something that's specific to the June 2010 E-mini

1 S&P 500 contract. This is the price and volume
2 chart, so you see that the volume spikes up and
3 the price goes down and goes back up in the matter
4 of a few minutes. We also reconstructed for this
5 analysis the entire order book depth, and you can
6 see that there is a collapse on the buy side as
7 much as on the sell side at that time.

8 When we're looking at these aggregate
9 indicators, market price, market trading volume or
10 market wide depth, it's not entirely clear what
11 happened. So if we here have, on a daily basis,
12 available to us audit-trail data and end-of-day
13 position data, outside of May 6, any day, on all
14 the contracts that are traded in our exchanges,
15 all the contracts that we regulate, we have this
16 data. We have the data. This data is very exact.
17 It has the exact identities of traders who traded.
18 It has transactions in which they participated.
19 We have the exact sequence in which these
20 transactions took place, because we have -- even
21 though the time stamps are not as granular as we
22 always like them to be, but we have the ID

1 indicator from the exchange that gives to us the
2 exact sequence of transactions. We also have for
3 each transaction exactly who was in the market,
4 whose order was entered first and whose order came
5 in later and executed against it. So-called
6 passive and aggressive flag.

7 So we're not guessing anything. We know
8 exactly who's done what in these markets. And
9 when you compare our analysis with other things
10 you may be reading, please keep in mind that our
11 data is what is the most exact audit trail that we
12 could find. Other people may be looking at
13 portions of it, some of it and other things.

14 In addition to that, the information in
15 the May 6 report is based not just on the
16 numerical and quantitative analysis, but on
17 numerous interviews whose market participants were
18 present on that day, including market participants
19 who specifically participated in some of the most
20 important trades that happened on that day.

21 So what we've done, then, is we've
22 grouped our traders into categories, so the paper

1 goes on about describing how we grouped them. We
2 basically looked at profiles of their execution
3 patterns, and we grouped -- we created one group,
4 let's call them market makers, and out of the
5 market makers, those are the traders who trade a
6 lot during the day, but they typically revert to
7 their positions around, let's say, zero, around
8 small number relatively quickly throughout the
9 day, and then they start flat and typically end
10 flat. Out of those, we selected a very small
11 number of 16 trading accounts that specifically
12 account for an inordinate amount of trading.

13 We also selected fundamental buyers and
14 fundamental sellers. Those who they may both buy
15 and sell. They don't have to be only buying or
16 only selling, but they accumulated directional
17 positions throughout the day.

18 And noise traders, those who trade no
19 more than nine contracts per day. As you can see,
20 there's a very large number of participants who
21 trade maybe once or twice a day. A very small
22 number of contracts.

1 And the rest we call opportunistic
2 traders. These are your cross-market
3 (unintelligible). These are your technical
4 traders. Those are the ones who fall somewhere
5 between fundamental traders and market makers.
6 They may accumulate a directional position. They
7 may sit on that. They may trade around it. They
8 may go back. They may accumulate something else.

9 So we've separated the entire cross
10 section of over 15,000 accounts that traded on
11 May 6 into these categories, and what we wanted to
12 see is how they interacted with each other,
13 because we believe that these markets are an
14 ecosystem. This is an ecosystem of market
15 participants who trade with each other, and their
16 responses are best responses to each other's
17 strategies.

18 What you can see here is roughly where
19 these different portions of the ecosystem fall.
20 On the vertical axis, you can see trading accounts
21 in percent of volume grouped and percent of volume
22 in decreasing order, or in percent of the number

1 of transactions. It shouldn't surprise you that
2 high-frequency traders account for a large
3 fraction of volume. These are individual account
4 by account. You cannot see the actual dots
5 corresponding to the accounts, but you can see the
6 shaded areas where those dots mostly fall. So
7 that is the overlapping sort of ecosystem of this
8 large electronic market. Very, very liquid
9 market.

10 Just very briefly, high-frequency
11 traders, we looked at when we classify them
12 high-frequency traders and other market makers, we
13 actually looked on this three days prior to May 6,
14 because we believe market makers are in there all
15 day every day. They're not just there on May 6.
16 So we selected accounts that were there before,
17 and high-frequency traders accounts were somewhere
18 around 30 to 35 percent of volume and
19 transactions. Remember, these are 16 accounts,
20 16 trading accounts. That's a lot. Buyers and
21 sellers individually -- fundamental buyers and
22 sellers individually account for about 10 to

1 12 percent of the total. Let's keep in mind that
2 these are the accounts that actually take the
3 contracts off the market and keep them overnight.
4 So these are the ones who come into this market
5 and for whom this market is to actually manage
6 their exposure, and the rest of the market, the
7 rest of the 20 percent intermediate during the
8 day. So 80 percent of this market is an
9 intermediation market. And this intermediation
10 market operates on different time scales.

11 When we were trying to answer the
12 question what do the high-frequency traders do and
13 how they behaved on May 6 relative to other days,
14 we've constructed for the group of high-frequency
15 traders what their net holdings are. So these are
16 the number of contracts second by second that they
17 hold, either long or short, and you can see that
18 we start them all at zero on each one of these
19 days.

20 So you can see that they revert to their
21 sort of target inventory position. Their target
22 inventory position fluctuates somewhere around

1 3,000 contracts in each direction. And if you
2 look at -- if I were to switch the May 3, May 4,
3 May 5, May 6 for you, you wouldn't know which one
4 of those days was which. It looks like what they
5 were doing on May 6 is very similar to what they
6 were doing on the previous three days, to us.

7 Now, the important part is they don't
8 accumulate a position larger than a certain
9 relative target. You'll know now from the May 6
10 report that the largest trader was trying to sell
11 75 -- or sold 75,000 contracts. So as you can see
12 from this, these traders are not in a position,
13 not interested in accumulating this size.

14 The intermediaries, the slower
15 participants, are the ones who are also making
16 markets, and their behavior, however, you can see
17 is quite different from high-frequency traders in
18 that they do get caught. They do get run over by
19 the price moves, especially when the price moves
20 are sharp. The price on May 3, you can see when
21 the price moved up, they ended up on the short
22 side, and you can see on May 6 when the prices

1 move down, they ended up accumulating in that long
2 position. This is very common for the
3 intermediaries. This is their big worry, to
4 be caught on the wrong side when the prices move.
5 You can see that compared in contrast to
6 high-frequency traders who did not get caught, or
7 at least did not get caught by the price. Mostly
8 slower intermediaries, slower market makers did.

9 What we've also done is that we looked
10 at how these participants adjust their positions,
11 and what you'll notice is that high-frequency
12 traders trade in the direction of price movement
13 for the first five seconds and then trade in the
14 opposite direction. That is, either their speed
15 or their predictive ability enables them to buy
16 when the prices are about to increase and sell
17 right after that. On May 6, they seemed to follow
18 the same strategy, only do it faster.

19 In contrast, intermediaries trade
20 opposite the price movement for the first two
21 seconds and then trade in the same direction after
22 three seconds. So they do get run over by the

1 price move. And on May 6, that's what happened to
2 them.

3 We also looked, as I said, we have the
4 exact flag of whether high-frequency traders
5 provided liquidity have taken liquidity. We find
6 that generally, high-frequency traders both
7 provide and remove liquidity on -- it's about
8 50/50, but often it is more. They more
9 aggressively remove liquidity than passively
10 supply it. They followed the same strategy on
11 May 6.

12 Intermediaries, as you can see by the
13 direction they were trading to, they typically
14 provide liquidity and did less so on May 6. We
15 also investigated specifically what during the
16 down time and the up time what the high-frequency
17 traders and slower market makers did, and we found
18 them to be high-frequency traders following the
19 same strategy and intermediaries getting caught
20 and then withdrawing.

21 This is the Hot Potato chart. The chart
22 that on the red line indicates to you this is the

1 ratio of trading volume to net position. People
2 see the exact description in the paper of how we
3 calculated this. And we interpreted as there was
4 a period of time in the markets when
5 high-frequency traders and other traders were not
6 there or not forthcoming for some reason and the
7 high-frequency traders were the only ones that
8 accounted for a majority of trading volume.

9 We looked at what typically fundamental
10 traders do and the large seller whose sell-out
11 rating was executed on May 6 is in the category of
12 fundamental sellers here. As you can see, the
13 important part here is the difference between buy
14 and sell, so for the buyers, that's about
15 50,000 contracts. 78,000 minus 28,000 on the way
16 down, and for the sellers, that's about
17 84,000 contracts. And that imbalance is seemed to
18 be picked up by the opportunistic traders who are
19 demanding large price concessions on this point.

20 On the way up, the imbalance between
21 fundamental buyers and fundamental sellers is not
22 there anymore. You also can see that

1 high-frequency traders on the way down and on the
2 way up as well as the intermediaries buy and sell
3 about the same amount.

4 We've also looked at the aggressiveness.
5 Some of the things that we are looking at
6 specifically in response to how much more
7 visibility and what other additional indicators
8 market participants may benefit from when
9 ascertained in market conditions, we looked at
10 aggressiveness and balance. That is aggressive
11 buying minus aggressive sell cumulative.

12 We've estimated some price impact of
13 different market participants and what their
14 strategies have done to prices both on May 3-5 and
15 May 6. As you can see, the title of the paper is
16 "Impact on Market of High-Frequency Traders," so
17 this is how we define market impact. You define
18 high-frequency traders the way we define them in
19 the paper. Flash crash you know.

20 Now we move to what this quantitative
21 evidence combined with other evidence seems to
22 suggest to us is that a large fundamental seller

1 initiates a sell program, and then at some point,
2 high-frequency traders, as they typically do,
3 reverse the direction of their trading. They
4 start selling.

5 These fundamental opportunistic buyers,
6 fundamental buyers are not forthcoming during this
7 period of time. Or at least they're forthcoming,
8 but not at the rate to pick up the sell program.
9 Opportunistic buyers are demanding price
10 concessions. There's a five-second trading pause,
11 then there's a reopening procedure, prices
12 stabilize and then fundamental buyers lift prices
13 back up, and by 2:08, prices are back to their
14 central time. Prices are back to their
15 1:32 level.

16 The report identified a lot more. We
17 went to extraordinary lengths, as Commissioner
18 Chilton said, we are bound by the statute. We can
19 only reveal what we can reveal. At the request of
20 Congressional committees, we revealed for the
21 benefit of the public and the markets a lot of
22 what happened on that day, and it is important

1 to -- we also showed how this particular event
2 propagated to other markets and resulted in
3 liquidity events in the securities markets more
4 generally.

5 So now we're in a situation where we're
6 not in Kansas anymore. We know now that the
7 largest trader will always have an impact; that
8 volume is really not the same as liquidity,
9 especially the times of high volatility; that HFTs
10 are probably more volume rather than liquidity
11 providers. The slower liquidity providers get
12 caught on the wrong side. There's some remaining
13 questions remain: Why does it take so long for
14 fundamental and opportunistic buyers to come in?
15 And as Chairman Gensler said, there certainly, as
16 markets become -- as technology in the markets
17 changes, we need to revisit the issue of what the
18 safeguards might be against practices that may be
19 disruptive. They may not be intended to be
20 disruptive or they may be intended to be
21 disruptive, but they may result in a disruption,
22 and we need to deal with that.

1 COMMISSIONER O'MALIA: Thank you very
2 much. There's a lot of material here that Andrei
3 has laid out, to say the least, and I want to make
4 sure everybody is -- if you have any questions,
5 we're on schedule, and while the topic is fresh in
6 your head, if you have any specific questions to
7 Andrei, probably best to ask it now before we move
8 on to Bob's presentation. Any concerns?
9 Questions?

10 If not, Andrei, let me ask you one
11 question. In the May 6 report and in your
12 academic paper, you talked about the Hot Potato
13 Volume and the role it had in contributing to the
14 kind of liquidity issues and the sell volume, for
15 example. Can you elaborate on that a little bit
16 more, what role it might have had?

17 CHAIRMAN GENSLER: If you go back to
18 that chart, because I had a question on the same
19 thing. So the chart would help. There was a Hot
20 Potato chart.

21 DR. KIRILENKO: Right. There are two
22 parts to it. So this chart, as you can see,

1 specifically looks at the spike in the hot potato
2 effect around past 1:45:18. So this is already
3 very, very close to the time when the stop-logic
4 functionality kicks in.

5 So there are two parts. One is how did
6 the sell algorithm respond to volume and
7 which fraction of this volume it was responding
8 to. That was happening prior to this. This is
9 more -- we consider this to be more indicative at
10 this point of relative lack of fundamental and
11 opportunistic traders. It's not necessarily at
12 this point the algorithm may or may not be
13 responding to this particular spike in volume.
14 Remember that this is the ratio of trading volume
15 over net position. So as net positions stay
16 relatively flat, the trading volume increases. It
17 will show up as an indicator like this.

18 It's somewhat different from trading
19 volume in the prior minutes that were generated by
20 the rebalancing strategy of the high-frequency
21 traders who were reducing their net positions. So
22 they've accumulated the net long position, and

1 then they seem to have reached a certain inventory
2 level, and they started reducing that. As they're
3 reducing that, they're going through a lot of
4 volume. So you see again is that ratio of -- as
5 their net position is going down, the denominator,
6 their trading volume at the same time is
7 increasing. You see that increase, and that is --
8 that increase is possibly something that the
9 algorithm has responded to.

10 Again, we're viewing this more as an
11 indicator of a particular imbalance in the
12 ecosystem of the market rather than something that
13 is more than that. It may have been more than
14 that, but at this point, it may not have, also.

15 CHAIRMAN GENSLER: I'm not going to
16 focus on this chart, because I'm not sure I follow
17 it, but the concept that you call hot potato
18 volume and I call it a rally and ping pong, what
19 do you think happened on that day? Why wasn't a
20 9 percent volume limit good enough to protect that
21 seller at that moment? What else was going on?

22 DR. KIRILENKO: I think that -- let me

1 perhaps start by asking a somewhat broader
2 question is that automated execution algorithms,
3 in my opinion, are not designed to be disruptive.
4 The automated execution algorithms are like cargo
5 trucks. They're supposed to deliver a certain
6 customer order from place A to place B, and
7 generally, they're designed to go with the
8 traffic. They're not designed to disrupt traffic
9 or do something else. That's not what they're
10 supposed to do.

11 However, a particular way of driving the
12 truck on the congested road may cause other market
13 participants to respond to that, and in response
14 to that, then we can see what I think happened on
15 May 6 is that typically, a particular execution
16 could take a market that's given, a market that's
17 not going to change what it does. But on that
18 day, which was already a turbulent day, and a very
19 large volume coming in very fast, the market no
20 longer could be taken as given. It actually
21 changed in the response, as we could see from the
22 behavior of the cross section of participants.

1 They stop changing what they do. And as they
2 changed what they do -- what does it mean market
3 participants change what they do? They start
4 adjusting their positions. And they started
5 adjusting their positions, and they generate the
6 volume. And the truck responds to volume. It
7 says they go with the traffic. It doesn't say I
8 go with the traffic but I never increase, I never
9 go beyond 55 miles an hour. It just says I go
10 with the traffic. Traffic goes 100 miles an hour;
11 I go 100 miles an hour. Traffic goes 120; I go
12 120.

13 I think that is what -- I'm sorry I have
14 to refer to analogies like this, as again, some of
15 the things we would like to discuss, we cannot
16 always. I think that response of the market and
17 that response of the algorithm to the market
18 created the loop that led to the extreme
19 volatility that we observed.

20 CHAIRMAN GENSLER: I'd like to
21 understand if you agree with what Commissioner
22 Chilton said, or a variation of what he said, that

1 during those critical minutes, that this algorithm
2 was not price limited, or at least to our
3 knowledge it wasn't price limited.

4 DR. KIRILENKO: We have had discussions
5 with the executing broker, and we had analyzed the
6 execution profiles of many, many market
7 participants. In fact, 48 hours after May 6
8 happened, we have seen execution profiles of many,
9 many market participants, including the large
10 traders, and some of the analysis is presented in
11 the report.

12 By analogy with the truck, it might well
13 be that if you're looking at the execution
14 profile, and the cargo trucks are not designed to
15 be the fastest vehicles on the road, so if the
16 traffic is moving fast and it seems that the cargo
17 truck is not accelerating as fast as the traffic
18 at this point is moving, it would be erroneous to
19 call it that the actual truck is slowing down.

20 CHAIRMAN GENSLER: You lost me on your
21 metaphor. I was just asking whether, to your
22 knowledge, was there any price limit in the

1 algorithm or not.

2 DR. KIRILENKO: We are not aware of any
3 specific price limit that was built into the
4 algorithm. Now again, this does not mean that
5 this algorithm does not take into account prices
6 and quantities that are present in the market.
7 This algorithm does compute prices and quantities,
8 because after all, it submits limit orders, and
9 limit orders must have prices in them. So in
10 order to execute, the algorithm has to see where
11 the market prices are and what the quantities are,
12 and it actually calculates prices and quantities.
13 Also knows that if it submits prices and
14 quantities outside the bans imposed by the
15 exchange, those orders are not going to get
16 executed. It can't submit an order of 5,000
17 contracts, because that order is going to be
18 rejected. You cannot submit orders outside of the
19 price bans. Those orders are going to be
20 rejected. It knows that, so it does -- it's an
21 algorithm. It takes into account a lot of
22 information. Now, we are not aware of the fact

1 that it has a specific price limit.

2 CHAIRMAN GENSLER: The only other thing
3 I had was as I understood the day, really it was
4 the evening of May 6 or maybe it was the morning
5 of May 7, I lose track of it, that I think staff
6 views working with the Chicago Mercantile
7 Exchange, if I remember that evening and that next
8 morning, that there was a confluence of events.
9 It was a very shaky market out of Europe, and by
10 2:30 east-coast time, it was a very fragile -- I
11 would use a different metaphor: The ice was very
12 thin. But then something came onto that ice. And
13 it took, as it turned out, about a six and a half
14 percent price concession to do this \$4 billion
15 trade. The first 2 billion of it took that price
16 concession, actually, more accurately.

17 So it sort of was a confluence of
18 events, and then, of course, we had all the
19 breakage in the securities market, that fragmented
20 marketplace that some stocks went to a penny. I
21 didn't read your report as suggesting that this
22 large trade caused penny of shares trades in the

1 securities market, but it's this sort of three
2 chapters. Very thinning of the ice until 2:30, a
3 large trade puts this significant pressure on the
4 market, and then the spillage and breakage in the
5 equity markets. Does that seem about right? I
6 mean, do I --

7 DR. KIRILENKO: That is exactly right,
8 and in order for us to be able to establish that,
9 the work that we've done primarily and the
10 analysis that we've done since the May 18 report,
11 and that report was a confluence of events,
12 because if you look at these prices, these price
13 movements, it's not really entirely clear who is
14 moving and why prices all seem to be moving
15 together.

16 Twenty-four hours after the event
17 happened, we did have execution patterns of
18 traders in our market, and from those execution
19 patterns, it was not entirely clear what exactly
20 happened. If a large trader came in and submitted
21 a market order for 35,000 contracts and it
22 completely evaporated liquidity on that side, we

1 wouldn't need to write the report. We would have
2 just come out and said somebody came in with a
3 very, very large market order and disrupted
4 trading. But that's not what happened. What
5 happened is that there was trading done all around
6 the market, and what we've done subsequently, the
7 work that was done jointly with the SEC, we went
8 over something along the lines of five-billion
9 records and put together order books for the
10 E-mini, spider and the S&P 500 stocks, and based
11 on that, we were able to see changes in liquidity
12 in these different markets and how it propagated.

13 Now, it did not, of course, answer the
14 question entirely why did the -- it was reasonably
15 clear to see the propagation mechanism, and we
16 conducted some entries to do that from the E-mini
17 into the S&P 500 stocks and then to the spider.
18 It was not entirely clear why would Extentia trade
19 for a penny after what happened, happened. And
20 that happened and we -- again, jointly with the
21 SEC, we conducted a number of interviews to find
22 out, and the propagation mechanism that caused

1 that to happen is basically related to pauses and
2 to provision of liquidity that many, many market
3 participants engage in. And whether they do it
4 automatically through algorithms or they do it on
5 the human scale, but basically, as prices move
6 very large, it triggers pauses, and then humans go
7 and look at the trading systems and decide what
8 at-risk parameters they want to trade, and after
9 they adjusted those risk parameters, some of them
10 decided not to provide liquidity. Some of them
11 decided to route orders. Not to internalize
12 orders, to route them directly to the exchange.

13 So the sell orders were coming, and the
14 liquidity that would typically absorb some of that
15 shock through internalization or through some
16 additional provision was just not there at that
17 price, and that resulted in trades at quite
18 abnormal prices and broken trades.

19 COMMISSIONER O'MALIA: I was just going
20 to ask you a question, but you answered it in that
21 response there. Was it one big -- was it simply
22 this large trade? And I think you've answered it

1 was actually the liquidity that drive up it.

2 So I'd like to get some discussion going
3 around that issue of liquidity and could this
4 happen again, what are the factors that -- you
5 know, we understand what the factors were that
6 lined this thing up to put this in position, but
7 what do we do about the liquidity issue? What do
8 we need to think about as regulators to ensure
9 that these kind of things don't happen again?

10 Mr. DeWaal?

11 MR. DeWAAL: Actually, I have a question
12 first, because I'm sort of struck by the
13 conclusion that the high frequency traders removed
14 the liquidity, because certainly in conversations
15 I've had, the spin could be viewed as a bit
16 different. I mean, at least as the trading
17 began -- and I don't have the benefit of the
18 CFTC/SEC report in front of me. The
19 high-frequency traders were actually fulfilling
20 the -- were actually the offset to the mutual fund
21 that was selling, then obviously as the spiral
22 began, at least as I talked to some of the

1 traders, what they're saying is that their
2 algorithms were actually smart enough to realize
3 that there was something wrong with the market and
4 they should step away. And it was actually the
5 intermediaries who didn't have the benefit of
6 analyzing the market as efficiently and didn't see
7 that problem, and so they stayed in the market at
8 a time when they also should have logically pulled
9 out. In fact, it was the five-second pause that
10 brought the market back to coherence.

11 So I'm wondering whether this is not
12 looking at the glass half full, half empty,
13 whereas rather than pulling out liquidity, in
14 fact, the high-frequency traders were providing
15 liquidity until such time as they correctly
16 assessed the market as something fundamentally
17 wrong and they should step aside. In fact, that
18 analysis is validated by the fact that ultimately,
19 that's what, in fact, the market did itself. It
20 took a five-second pause, and things sort of got
21 back on the right track.

22 DR. KIRILENKO: I think we found exactly

1 what you said except for the very first sentence
2 that you said. You said I'm struck by the fact,
3 and then you described exactly what was said. The
4 analysis that we have corroborates what you just
5 said, that the initial providers of liquidity to
6 the large seller were the high-frequency traders.
7 At some point, they seem to have reached their
8 traditional inventory constraint, and then they
9 started selling. And then that happened before
10 the large price moved down, and they did not get
11 caught on the way down, did not get caught on the
12 way up, whereas slower market makers did get
13 caught on the way both down and up.

14 So, now having said that, then, if we
15 move beyond whether or not they were providers of
16 liquidity or takers of liquidity, as I said, we
17 have the exact flag of whether their order was
18 there first or it was there second. Whether or
19 not they actually were -- their order was resting
20 or it came in and hit the order that was sitting
21 in there.

22 As we say in the report of May 6, the

1 large -- if you look at the execution of the large
2 seller, you can also see that they're about 50/50
3 aggressive impassive, too, on the way down and on
4 the way up. So it's slightly different on the way
5 down than on the way up, but also about 50/50.

6 So they're also not just aggressively
7 removing liquidity. It's an automated execution
8 algorithm that's designed to do many things that
9 it does, and one of them is not necessarily to be
10 removing liquidity, but also put in quotes so that
11 the market comes to them.

12 So we could see that high-frequency
13 traders generally remove more liquidity than they
14 provide liquidity. They trade a lot against
15 volume, so calling them liquidity providers is
16 not -- now, compared to slower market makers are
17 primarily providing liquidity rather than removing
18 liquidity. Now, they do get caught, of course, if
19 prices move.

20 MR. DURKIN: Thank you, Commissioner. I
21 just need to, if I may, add some further contacts
22 to the large order that's been referenced here,

1 because I am concerned that my colleagues around
2 the table may not have the complete context as we
3 understand it of how the order was actually
4 transmitted and entered into the order book.

5 So the 75,000 contracts, first and
6 foremost, to put it in context, represented
7 1.3 percent of the 5.7 million contracts that
8 traded in the E-mini and that were sold on May 6
9 on that day. And it represented an even smaller
10 amount of the total instruments that were offering
11 similar bait, and I really appreciate Chairman
12 Gensler clarifying the confluence of events that
13 took place during this particular day. You know,
14 a great deal of the reference here has been on
15 this particular order, but there was absolutely,
16 unequivocally, fundamental negative financial
17 economic political unrest occurring throughout
18 that day, which lead to a very strong, bearish
19 session throughout that day as well.

20 And during the 20-minute period in which
21 this order was entered and executed, it accounted
22 for, and I believe you did codify it accounted for

1 around nine percent of the total sell volume.

2 However, more important during the critical time
3 period of the three and a half minutes that have
4 been the subject of reference, it accounted for
5 less than five percent of the total volume of the
6 sales in that market.

7 In less than 75,000, less than half of
8 the 75,000 lot order was executed during the sell
9 off. In fact, a greater proportion was executed
10 during the market rally off of its strong lows.
11 The algorithm itself, as we understand it, was a
12 volume-participation algorithm. So it wasn't
13 entered in the context of 75,000 lot order hitting
14 the marketplace. It was AI allocated across three
15 25,000 lot orders, and the objective of the
16 algorithm was for each of those to represent
17 3 percent of the volume during that time period.

18 Of each of those three orders, they were
19 broken up into over 1,000 smaller child orders,
20 and each of those smaller child orders have
21 randomized quantities between established minimums
22 and maximum order quantities for each one of those

1 respective orders.

2 Then the one point of clarification from
3 our understanding is that each of those child
4 order was entered with limit prices, and I believe
5 Dr. Kirilenko actually did indicate after Chairman
6 Gensler's question to reconfirm his answer that it
7 was plausible that there were limit prices. We
8 understand that there were limit prices for each
9 of those orders. They were initially placed as
10 passive orders above the current bid, and prices
11 were only adjusted lower in defined increments
12 relative to the market so that the order could
13 participate and meet its volume objectives.

14 At the end of the day, the aggregate
15 size of the participants' order, by virtue of this
16 algorithm and how it was used, was not known by
17 the other market participants. The participant
18 could not know, given the anonymity of the trading
19 on our platform, who was accepting the risk it was
20 seeking to trans for. The orders, you know, the
21 algorithm also did rely on not only issuing
22 smaller-sized orders but utilizing iceberg

1 functionality to further reduce the impact of the
2 larger orders into the market.

3 COMMISSIONER O'MALIA: Dr. Bates?

4 DR. BATES: Dr. Kirilenko -- I'm not
5 trying to give you a hard time by saying that, by
6 the way -- one thing I'm very interested in just
7 getting some more clarification on, I love the way
8 you drew out the different types of trading and
9 diagrammatically with high-frequency trading and
10 so on laid out. High-frequency trading has had a
11 tremendously bad wrap in the mainstream press
12 linked to the flash crash where it's been
13 demonized to some extent. And in fact, it was
14 interesting to see that the flash crash really
15 wasn't caused by high-frequency trading. It was
16 caused by an execution, an algorithm, but really
17 with much more human impact, parameterized, set up
18 by a human and then set running. Not an
19 automated, high-frequency trading algorithm. So I
20 just want to -- you know, there was all that
21 coverage of Nanex about quote stuffing.

22 I wanted to get your clarification,

1 because I think it would be great to actually say
2 publically it wasn't high-frequency trading that
3 caused it, and in fact, all that -- I'd love to
4 get your view.

5 CHAIRMAN GENSLER: I've noticed that
6 we're not going to get much advice. Brian wanted
7 to state CME's view. You're stating your view.
8 Everybody wants to get poor Andrei to state
9 something on the record to confirm your views.
10 But your advice to the commission would be really
11 helpful, too.

12 DR. BATES: Fair enough. Well, my view
13 on this is that there's a number of things that we
14 should look at and perhaps state some best
15 practices on. Around, for example, back testing
16 of an algorithm like the execution algorithm that
17 was put into the market. What kind of back
18 testing under the kind of market conditions that
19 we saw or varying kinds of market conditions may
20 have discovered that this kind of thing could
21 happen. And indeed, what kind of risk and market
22 monitoring was there to detect for that algorithm

1 to stop it from happening. Gary talked about
2 smart algorithms on the high frequency side, and
3 believe me, I wasn't trying to defend
4 high-frequency trading. I'd love it if algorithms
5 in general got a clean bill of health. They
6 didn't, but what kind of mechanism should be
7 prescribed to be able to detect that? Why
8 couldn't that algorithm have detected and pulled
9 that from what it was doing? So I guess if I was
10 going to raise some issues and recommendations,
11 better back testing under all market conditions
12 and better monitoring and real-time pre-trade risk
13 management on an ongoing basis, and perhaps even
14 for the CFTC, shouldn't you have a NASA type
15 launch-control system where you could see
16 something flashing red and you could get on the
17 phone or get in there and be able to alert people
18 that something's happening across all trading
19 venues. Are these not things that we should
20 perhaps be looking at? Was that suitably
21 nonpartisan?

22 CHAIRMAN GENSLER: It's advise.

1 MR. DURKIN: Mr. Chairman and
2 Commissioner O'Malia, I appreciate your point in
3 terms of offering recommendations and advice. We
4 certainly have some from the CME Group. In
5 particular, I do think that there are a number of
6 processes and automated capabilities attendant to
7 both the trading platforms themselves as well as
8 front-end system technology that should be adopted
9 as best practices, and we should really be looking
10 at that in that context in terms of what's in our
11 tool kit today that we could be using in a more
12 broadened basis as an industry in general. I
13 think we've been pretty clear in terms of some of
14 the innovative capabilities that we've been
15 driving in the context of stop-loss functionality,
16 in the context of credit controls, and this
17 committee has, I think, taken a very responsive
18 and positive step forward in moving that
19 initiative ahead in terms of automated credit
20 controls and establishing some criteria in that
21 regard, or at least the Commission is considering
22 such.

1 You know, there's definitely
2 functionality in place today in the context of
3 price banding as well as automated parameters that
4 can be both on the front end of trade risk systems
5 and also at the trading platform that could limit
6 the cascading type of effects that we experienced
7 on May 6. In fact, as you alluded to,
8 Mr. Chairman -- and we appreciate your
9 acknowledgment that the stop functionality did
10 kick in. Now, is there a way for us to better
11 calibrate going forward when it kicks in or the
12 parameterization of how it kicks in? Absolutely.
13 So I do think that there are a number of things at
14 our disposal right now that we could be looking at
15 more closely as a unit to say how can we learn
16 from that and how can we expand that should some
17 of these things become best practices.

18 COMMISSIONER DUNN: This has really been
19 a very enlightening discussion here. And I guess
20 Nanex published their report Friday, which is
21 looking at the report that has come out of the
22 Joint Advisory Committee report. It all helps me

1 understand that there's more than one side to
2 these issues here, and we're really looking at
3 this advisory group. We're looking at the joint
4 advisory group that we have on the flash crash
5 take place. They're going to get this information
6 that Andrei and his colleagues have presented.
7 But feel free, anybody that's on this committee,
8 to give us your input on it as well. This is
9 something that we absolutely have to understand
10 what's taking place in the marketplace, and it is
11 just imperative that we have all sides of the
12 issue here. So I appreciate the discussion that's
13 taken place.

14 COMMISSIONER O'MALIA: As I stated in my
15 opening remarks, this is building on a previous
16 meeting which the focus of that meeting were the
17 recommendations of the FIA to implement certain
18 risk functionalities to avoid situations like
19 May 6, or other situations, but we obviously have
20 a teaching moment here, and maybe you can think
21 about this a little bit more and get your thoughts
22 on it, but what do we need to build on from the

1 FIA paper in light of the situation we have with
2 May 6 and the recommendations we're going to need
3 for disruptive trading practices? How does that
4 paper grow? What additional controls might be
5 necessary? We should probably go back and revisit
6 that FIA paper a little bit and understand what we
7 need to add to avoid another May 6. If anybody
8 has any thoughts on that immediately, I'd love to
9 hear them. Think about it a little bit more.

10 Before we go to Bob, I want to make
11 sure -- anymore questions or thoughts?
12 Christopher?

13 MR. HEHMEYER: Just an observation.
14 There's some very smart people here, and your
15 paper's very good, by the way. It was obviously a
16 lot of work and you should be very proud of it.

17 DR. KIRILENKO: Thank you.

18 MR. HEHMEYER: So I'm surrounded by a
19 lot of smart people, but I've been around these
20 markets for a long time, and one thing that I
21 think it's important to take away from this whole
22 thing is that this circuit breaker was very

1 effective in calming this market down. I think
2 that should be kept in mind as you look at
3 policies that can be very complex, and then a
4 simple circuit breaker said -- in five seconds.
5 Maybe the technologies used to be a day. It used
6 to be 30 minutes. It used to be -- now it's five
7 seconds. Reasonable people I think can debate the
8 logic of the circuit breaker, but that was very
9 effective in calming this market down.

10 COMMISSIONER O'MALIA: Mr. Pease, we
11 will take the macro or take it down to some very
12 specific trading issues we have, as given to us in
13 new authorities provided by Dodd-Frank.

14 MR. PEASE: Thank you. Sorry for the
15 lawyer to go after the interesting economist, but
16 I'll try to keep you awake. Good afternoon
17 Mr. Chairman and commissioners, and thank you
18 Commissioner O'Malia, the chairman of the
19 Technology and Advisory Committee, for inviting me
20 here today to discuss two rule makings. The new
21 anti-manipulation authority of Section 753 of
22 Dodd-Frank, and Section 747, which prohibits

1 certain disruptive trading practices and gives the
2 Commission the authority to prohibit other
3 practices that are disruptive of fair and
4 equitable trading. Of course, my comments today
5 are my own and do not reflect those of the
6 Commission or other staff members.

7 Section 753 of Dodd-Frank amends
8 Section 6(c) of the Commodity Exchange Act and
9 expands the authority of the Commission to
10 prohibit fraudulent and manipulative behavior.
11 This new section creates a prohibition against any
12 person using or attempting to use any manipulative
13 or deceptive device for contrivance. The new
14 statute requires the Commission to promulgate the
15 implementing rule within one year.

16 The text of this new section prohibiting
17 fraud-based manipulation is patterned after
18 Section 10(b) of the Securities Exchange Act of
19 1934. The courts have interpreted the Exchange
20 Act Section 10(b) and Section 10(b)(5) to cover
21 intentional or reckless conduct that deceives or
22 defrauds market participants. New Section (c)(1)

1 is similar to the antimanipulation authority
2 granted in the Federal Energy Regulatory
3 Commission and the Federal Trade Commission. FERC
4 and the FTC have promulgated rules based on SEC
5 Rule 10(b) and 10(b)(5) to implement their
6 respective authority, but have modified
7 Section 10(b) and 10(b)(5) as appropriate to the
8 distinct regulatory missions and responsibilities.

9 Section 753 of Dodd-Frank further adds a
10 special provision for manipulation by false
11 reporting and a prohibition on false information.
12 This provision is self-activating and does not
13 require a rule making.

14 Congress also created a new
15 Section 6(c)(3) entitled "Other Manipulation,"
16 which mirrors existing commission authority to
17 prohibit manipulation of crisis. As with many of
18 the provisions of Dodd-Frank, as staff well knows,
19 Section 753 requires the commission within one
20 year to promulgate a new rule implementing
21 authority granted by Section (c)(1).

22 In Section 747, congress amended the

1 Commodity Exchange Act to prohibit specific
2 trading practices that are disruptive of fair and
3 equitable trading. Specifically, Section 747
4 makes it unlawful to violate bids or offers, to
5 demonstrate intentional or reckless disregard for
6 the orderly execution of transactions during the
7 closing period or to engage in spoofing. Spoofing
8 is defined as bidding or offering with the intent
9 to cancel the bid or offer before execution.

10 Congress authorized the Commission to
11 promulgate rules to prohibit these three
12 enumerated disruptive trading practices and any
13 other trading practice that is disruptive of fair
14 and equitable trading. Congress did not provide a
15 deadline for this optional rule making, nor is the
16 Authority limited to one rule-making effort.

17 Section 747 also makes it unlawful for
18 any person to enter into a swap knowing, or acting
19 in reckless disregard of the fact, that its
20 counterparty will use the swap as part of a
21 device, scheme or artifice to defraud a third
22 party.

1 Our rule-making team, which consists of
2 representatives from each of the Commission's
3 divisions, is currently drafting rules to
4 implement the provisions of Section 753 and
5 Section 747. In addition, the team continues to
6 examine the events of May 6, in particular, to
7 determine whether there are other disruptive
8 trading practices we should recommend to the
9 Commission to prohibit as disruptive of fair and
10 orderly markets.

11 Staff is examining technological
12 innovations in our markets and whether those
13 innovations, particularly algorithmic trading
14 programs, pose risks to the fair and orderly
15 operation of commodity markets.

16 Staff is here to listen to the
17 discussion this afternoon to help guide us in our
18 review. Staff will be making complete
19 recommendations concerning the implementation of
20 the new anti-manipulation authority contained in
21 Section 753 and the anti-disruptive trading
22 practices already in Section 747 in the near

1 future. Thank you and I look forward to answering
2 any of your questions.

3 COMMISSIONER O'MALIA: I know I can
4 count on Gary DeWall for a question on this one.
5 He even gave a presentation in Chinese, I think it
6 was, last week on disruptive trading practices.

7 Bob, can you give us a -- this is a
8 pretty broad definition or statute in which we're
9 supposed to identify and send a market specific
10 direction about what's going to be tolerated and
11 what's not going to be tolerated. Can you give us
12 a sense of some of the trading patterns or styles
13 that you've either heard about or are concerned
14 about that you're looking at that you may advise
15 the Commission on?

16 MR. PEASE: Well, we're looking at a
17 number of different practices, quote stuffing and
18 others that really are variations of spoofing. We
19 want to make sure there isn't a loophole there,
20 and staff's looking at that issue. For example,
21 spoofing is defined as pulling back the bids or
22 offers before execution. Certain trading

1 strategies may involve a certain number of being
2 executed, and so we want to make sure that we will
3 make recommendations to the Commission that would
4 cover those type of trading practices which we
5 think would very well be abusive to the market.

6 We're also looking at, as I indicated,
7 and want to hear from all the panel members here,
8 what is it about algorithm programs? Is there
9 anything about them that is either, A, inherently
10 disruptive or could cause disruptions that we
11 should look at potentially other issues that
12 involve how the algos are employed. Does a large
13 trade trigger different responsibilities of market
14 participants and other issues like that.

15 MR. HARRIS: I have just a question.
16 These disruptive practices that you're talking
17 about, presumably you needed this enforcement
18 authority because these practices would not
19 constitute manipulation?

20 MR. PEASE: Not necessarily, no.
21 Spoofing in the past had been prosecuted by the
22 Commission as a form of manipulation. And you

1 still would have the intent element. Congress
2 specifically provided that in 747. But you don't
3 have to go to the other elements that the
4 Commission would need to prove to establish a
5 complete claim of manipulation. There certainly
6 could be instances where enforcement may recommend
7 a 747 violation of spoofing as well as a
8 manipulation violation.

9 MR. BREYAULT: One of the things you
10 mentioned here is when you defined spoofing, it's
11 offering with the intent to cancel. How would you
12 determine the intent to cancel?

13 MR. PEASE: That's always a problem in
14 enforcement cases. Certainly we're going to look
15 at documentary evidence, but we're going to look
16 at a circumstantial case also. The totality of
17 the evidence. Does the totality of the evidence
18 show that the intent of the traders is to pull
19 back before execution? You can look at the volume
20 that they're putting in of bids and offers and
21 seeing that none of them are being executed or
22 almost instantaneously pulled back. Certainly

1 we'd love to have that incriminating e-mail, but
2 that doesn't -- it's not always as simple as that.
3 So we would look at the totality of the evidence.
4 Certainly all the documentary evidence.

5 COMMISSIONER O'MALIA: Dr. Carr?

6 DR. CARR: I just had a question on the
7 definition of spoofing. If someone submits a bid
8 or offer with the intent to cancel and replace
9 with another bid or offer, is that spoofing?

10 MR. PEASE: It depends on the intent,
11 depends on the circumstances. That's not one
12 that's easy to answer in isolation. We would
13 again look at the intent of the trades, looking at
14 what they were trying to accomplish, and there
15 could be circumstances where that would be
16 perfectly -- your hypothetical would be perfectly
17 legitimate behavior.

18 MR. DURKIN: I think I see a few frowns
19 around the table, so I'll be the -- I mean, that
20 answer I don't think really gives anybody comfort
21 in terms of how do you encourage electronic market
22 making and trading and you start going down the

1 path of dictating or establishing prescriptive
2 requirements in terms of how long an order needs
3 to remain in a platform before it may be canceled.
4 I mean, that could have very serious effects on
5 the market structure as it exists today. So I
6 think that that is something that we as a group
7 really need to kind of talk through in great
8 detail in terms of what is intended by this, what
9 is contemplated by the Commission, the Commission
10 staff, and how could whatever path we're going
11 down have either a positive or a very negative
12 impact on market liquidity and people's
13 willingness to step into the market.

14 COMMISSIONER O'MALIA: Dr. Bates?

15 DR. BATES: I'm actually going to say
16 something in defense of Bob here, which is I think
17 it is a very difficult issue to decide between,
18 say, a high-frequency trading, which is
19 continuously putting quotes out there but then
20 changing them as things happen in the market, and
21 this market manipulation we saw made very
22 popularized by the Nanex report.

1 But what I've seen in the past, even
2 with regulators like the UK's FSA, for example, in
3 the equity spaces, that you can't just determine
4 one circumstance is the thing that's gone wrong.
5 You have to build cases over time. So you might
6 detect that one of your surveillance rules has
7 detected a scenario that looks like market
8 manipulation. It falls in one of your market
9 manipulation roles with temporal or logical
10 things, but then that could have been an accident.
11 We've seen a lot of high profile accidents in the
12 last few months, actually with algorithms. It
13 could have been something unintentional.

14 But then if you see it consistently from
15 the same firm over time, you can then start asking
16 questions and CFTC might go in and investigate,
17 but I think one of the key things is you want to
18 get it as up-to-date as possible to have the same
19 sort of real-time monitoring that the algorithmic
20 firms have. So I do think it's necessary to do
21 that, particularly because of the bad press that
22 it gets if you don't be able to monitor it.

1 MR. DURKIN: My comments are actually in
2 support of what Bob has represented in terms of
3 maintaining trading practices that are fair and
4 equitable. We're very, very much all about that
5 as an industry and a marketplace, and I
6 definitely, to jump on your comments, Gary, I
7 think a lot of it goes to the surveillance
8 mechanisms and programs that we have in place at
9 our various markets as well as at the CFTC, and it
10 was very impressive to hear Dr. Kirilenko be able
11 to articulate down to the exact order and the
12 context of that order and the ability to
13 reconstruct that trade allows you to build
14 patterns. Patterns of conduct and activity, which
15 I think can help the staff look at this from a
16 surveillance perspective to see whether or not
17 there was intent and whether there was a basis to
18 be trying to manipulate or take advantage of the
19 marketplace, and those types of things should be
20 staunchly investigated and pursued. No question
21 about it. And I think this industry in particular
22 has done a pretty solid job of developing

1 innovative ways to reconstruct the activities in
2 these markets and we should continue to build upon
3 them.

4 COMMISSIONER O'MALIA: Before I go to
5 Gary DeWaal, there are some people here that have
6 some money in these markets and have some
7 aggressive trading strategies, and I will ask you
8 to offer your comments and thoughts for Mr. Pease
9 here. So before I do that, I'll talk to Gary.

10 MR. DeWAAL: Again, just in the area of
11 possible guidance, to me, at the end of the day,
12 the markets are all about prices and what --
13 there's a general prohibition of the foresee of
14 engaging in acts that cause non-bona-fide prices,
15 and to me, that's the critical provision. What
16 bothers me about this -- and I remember saying
17 something at the time when this legislation was
18 being proposed -- and unfortunately, we're stuck
19 with the legislation now, so it's a little bit too
20 late, I guess, to complain about it -- is that in
21 the abstract you're talking about in connection
22 with 4(c)(a), 5(c), you're talking about conduct

1 that's really just the placement of the order
2 irrelevant of the price. It seems to me at the
3 end, I would hope, that to the extent that there
4 are enforcement cases that are premised on these
5 provisions, that somehow they continue to be
6 coupled with the end game, which is the causation
7 of a non-bona-fide price, because otherwise, I
8 think that, in fact, you will scare the market
9 that something about canceled replace is
10 fundamentally wrong when I think that kind of
11 strategy has been around for quite some time,
12 high-frequency trading and non high-frequency
13 trading. Again, I think it's very, very important
14 that it's all about the prices. It's either a
15 price set -- and I've never, quite frankly,
16 understood the difference between a non-bona-fide
17 price under 4(c) or a manipulative price under 9.
18 I've always accepted that somehow there's a
19 difference. I don't know what they are, but to
20 me, these conducts should be in connection with
21 some price problem.

22 COMMISSIONER O'MALIA: Richard.

1 MR. GORELICK: Sure. Don't really envy
2 the position of the Commission here to have to
3 come up with rules that will both accomplish the
4 objectives of the legislation here and strike the
5 delicate balance that's important to make sure
6 that the markets continue to function very well.
7 It is a tricky obligation. I think regulators
8 clearly need the all the tools that can be
9 available to them to detect and deter abusive
10 behavior and to be able to stop manipulation where
11 it exists, so to the extent that we're moving in
12 that direction, that's very helpful.

13 On the other hand, it's important that
14 whatever rules come out of this accomplish a
15 couple of objectives. One, there needs to be
16 clarity. You know, the market participants need
17 to know whether a strategy that they would like to
18 pursue will potentially get them in trouble or is
19 clear and permissible.

20 A lot of the concerns that have been
21 expressed here about legitimate beneficial
22 strategies that involve cancelling and replacing a

1 lot of orders, that's exactly sort of the delicate
2 balance that needs to be struck here. How do we
3 put a rule in effect that will go after the
4 manipulative behavior, and how do we -- without
5 inhibiting the real legitimate behavior that both
6 helps price discovery and helps to provide
7 liquidity in the market.

8 And so I would hope that the objectives
9 of clarity from market participants and of
10 continuing to strengthen the market are kept in
11 mind as we go about and define these practices
12 that you're now required to go ahead and define
13 here.

14 MR. WHITMAN: A couple of things I would
15 say. I agree both with Brian and Richard's
16 comments. I think they were very good.

17 When you look at this problem that we're
18 talking about, I think it's not just this issue,
19 it's several issues that you guys are facing. I
20 think it really comes down to data. You need data
21 and you need the ability to have people on staff
22 who can interpret that data. Because if you can

1 get down and you can get granule enough, you can
2 see things in data that -- I'm nervous about
3 making rulings without that, that basically
4 encompass something that in the data is actually
5 not wrong.

6 And I think there's ways that you can
7 get at that. You can look at strategies and see
8 what percentage of the time do they have orders in
9 the market and over what percentage of time are
10 they in the market are they getting filled. And
11 what percentage of the orders that they have in
12 the market are they getting filled on? I'm
13 talking about an individual order or quantity.

14 I think back to in the open ALCRY days,
15 we used to see -- this definition of spoofing, we
16 used to see this, where you knew somebody was a
17 big short, and then they just came out and they
18 started offering and offering and offering. And
19 the way you really got down to the heart of it was
20 somebody would buy from them, and when they would
21 hit them, would they sell it to them. And it was
22 technically always supposed to be a violation if

1 they didn't, that they had to sell it to you, but
2 they didn't always do that. That was spoofing.
3 Somebody that's backing out.

4 In an electronic realm, it's much
5 harder, because an execution is an execution.
6 Once you're hit, you're done. You can't back out
7 of it, unless we put in some kind of rule about we
8 can see the trade and back out in a time frame.

9 But I really think to come down to this,
10 you're going to have very intricate situations
11 that you're going to have to be able to identify
12 patterns, and then out of that, then I think you
13 can have really good rulings that would get what
14 you want.

15 CHAIRMAN GENSLER: On data, this
16 Commission's been probably in a pretty good spot,
17 a spot that was tested on May 6. By 9 a.m. the
18 next day, we had the whole book: Transactions,
19 positions and the order book. We don't generally
20 download the order book every day just because of
21 the volume of it. We always download the
22 transaction and position data every day from each

1 of the regulated exchanges, and we've thought
2 about it and we're actually -- part of our
3 thinking as we go into the swap world, we might
4 have to start downloading the order book as well.

5 I appreciate your point, because it then
6 relates to money from congress and whether we get
7 enough resources, and I always associate myself
8 with Commissioner Dunn on that.

9 COMMISSIONER DUNN: I was just going to
10 make that point, Charles, because you indicated we
11 needed the data and we needed the ability to
12 interpret. And frankly, given what's going on in
13 the appropriation process, I don't think we'll
14 ever have that. So then we must fall back to the
15 SROs, to the exchanges and to the FCMS, and I want
16 to know who here want to be responsible.

17 MR. DURKIN: As an SRO, we obviously
18 take our responsibilities extremely seriously, and
19 again, I'm deeply sincere about the progress that
20 both the Commission and the SROs I think
21 collaboratively have made together in being the
22 frontrunner in the ability to develop technologies

1 and capabilities to reconstruct everything that
2 happens on our markets, and we do that, and that's
3 a model that Chairman Gensler I think can be
4 deeply proud of, and we were deeply proud of him
5 in his testimony to be able to say what he said
6 that by 9:30 in the morning, because some of us
7 lived through that with him, that we were able as
8 an industry to have a fairly solid handle on what
9 happened on that particular day.

10 We're able to do that on a continuous
11 basis as an SRO, and we have similar concerns,
12 obviously, in terms of funding and whatnot, but at
13 the end of the day, we know we have a
14 responsibility to be able to effectively protect
15 and monitor everything that occurs in our markets,
16 and so therefore, we've invested tremendously in
17 the technology capabilities to have all of that
18 data readily accessible.

19 CHAIRMAN GENSLER: One of the
20 challenges, and Commissioner Sommers mentioned the
21 number that established maybe upwards to
22 40 trading platforms, these swap execution

1 facilities. So in the futures world, we've had a
2 little bit of a luxury. I'm not saying it's good
3 or bad, but that there's not that many trading
4 platforms, and there's one that has a rather large
5 market share.

6 But in this swap world, if there are
7 30 to 40 to begin with -- and it could shake down.
8 It might shake down to a handful later. There's
9 probably only one way to integrate and look across
10 disruptive trading practices like Bob's talking
11 about, or manipulation across the market. There
12 has to be an aggregator. Whether that's the
13 Commission, as the statute says, or swap-data
14 repositories -- but swap-data repositories don't
15 have a regulatory function over the SEFs. I mean,
16 this is something that we have challenged with,
17 how to have an aggregated view for position
18 limits, for disruptive trading practices, for
19 manipulation, for all our enforcement. So we will
20 need the resources to do that.

21 COMMISSIONER O'MALIA: This quote
22 stuffing issue has been circulating a lot in the

1 press, and I'd like to get a sense of anybody
2 in -- can you define it? Does it happen in the
3 market? What have you seen in the market? Are
4 you familiar with this?

5 MR. HEHMEYER: We've seen it in back
6 month crude oil and nat gas. The back markets,
7 which are usually less liquid and not as active in
8 the back months, they flood it with orders, cancel
9 all the orders, and everybody's algorithms are
10 trying to figure out what happened that could take
11 a half a second to a second to create optionality
12 in the front month, that you can then pick
13 somebody off if the rest of the market changes.
14 And we see it on a fairly regular basis, and it's
15 pretty predatory, and I agree with Richard
16 completely that it's a -- I don't envy your task.
17 It's a little like the famous thing of the supreme
18 court justice that said it's like porn: I know it
19 when I see it. And it's difficult to write that,
20 because it can be a slippery slope and getting
21 into places where you get into art, right? The
22 difference in art and porn is sometimes difficult

1 to draw that line. But when you see it, it can be
2 pretty obvious.

3 MR. GORELICK: The quote-stuffing
4 allegations that I've read about in the press seem
5 like they would be fairly obvious and pretty easy
6 to detect. So I don't think that there's a big
7 problem of detecting that if it's going on. It's
8 not close to sort of the legitimate behavior where
9 it's hard to draw the line and just real market
10 making quoting activity where you have to adjust
11 your quotes regularly to remain competitive and to
12 be able to be able to offer good prices to the
13 market. But if you're cancelling and replacing
14 thousands of orders well away from the inside
15 intentionally and then benefiting from that in
16 some way, it seems like that's a pretty easy case
17 to both detect and to prosecute.

18 In fact, one of the reasons that I've
19 been a little bit skeptical about whether or not
20 this played a major role on May 6 -- and again, I
21 don't have all the information that's available
22 here, but just generally, my sense has been this

1 would be so easy to detect, there wouldn't be
2 any -- it wouldn't make any sense to do it, and it
3 would also be just a very easy case to bring.

4 I've said to some people that, hey, if I
5 was at the SEC, it probably would have taken me
6 about an afternoon to figure out -- you know, to
7 look at the specific allegations in the reports,
8 figure out what exchanges they were being
9 conducted on, call up the exchanges, ask who sent
10 these orders, and then call up the people who sent
11 the orders and say why did you send these orders?
12 If they have a real good answer, then maybe that's
13 something to pay attention to. Otherwise, you've
14 got an enforcement action that should be pretty
15 easy to win. So that quote stuffing stuff, to the
16 extent that it exists, should be really easy to
17 distinguish from the legitimate behavior that I'm
18 concerned about inhibiting that really improves
19 market quality.

20 COMMISSIONER O'MALIA: Bob, I don't
21 think you mentioned this in your statement, but
22 part of the discussion last meeting was making

1 sure that whatever algorithms go into the market
2 have been back tested and tried and used -- just
3 all the back testing. Occasionally, mistakes are
4 made and algorithms do go into the market that
5 ratios are different or there's a mistake. It
6 happens. How do we treat that? Is there an
7 opportunity to treat it like a rogue trader and
8 we'd apply some sort of a strict liability to it
9 or --

10 MR. PEASE: That's an interesting
11 question, and of course, being an enforcement
12 lawyer, I will say it depends, and again, it will
13 depend on the totality of the circumstances.

14 This is an algorithm that has gone --
15 did they test it and knew it had problems with it
16 but they put it in the market anyway? Well, we
17 might have a different view of that type of an
18 algorithm. Is this one that had worked properly
19 for some period of time and something happened and
20 it caused a disruption? We're going to look at
21 that situation very differently.

22 We're going to look at a situation where

1 the programmers developed the algorithm and it's
2 put immediately into the markets. Instead of
3 being tested, it's going live right away or with
4 minimal testing. We're going to look at that one
5 very differently.

6 So there are a number of different
7 sequences and circumstances, and we're going
8 examine before we're going to jump to a conclusion
9 as to whether it was disruptive or not.

10 COMMISSIONER O'MALIA: Do any of the
11 market participants have an opinion of kind of an
12 incentive or some sort of punishment for trading
13 behavior that would make -- at least you
14 understand what the consequences are from an
15 enforcement standpoint? I know there's been a lot
16 of discussion about some certainty here, and
17 obviously, building cases built on fact using the
18 data on trades, but is there -- in terms of an
19 outcome. Gary?

20 MR. DeWALL: I do know a number of
21 exchanges around the world have a specific
22 provision that if you have a percentage higher

1 than a certain amount of unfilled orders, you're
2 paying the penalty, and it's calculable, and you
3 can assess that in advance.

4 MR. DURKIN: That's correct. It's part
5 of our rules and our requirements at the CME Group
6 that we put all our users through a very strict
7 test in terms of order-to-trade ratio, and they do
8 understand that there is a monetary penalty
9 associated with that, and that's just an adjunct
10 to our overall surveillance.

11 So in looking at the activity in
12 general, I mean, you know, parties may very well
13 be subject to disciplinary action under our rules
14 and regulations if we feel that their trades or
15 their activity created disruption to the market,
16 and it's very clearly spelled out in our rules.

17 Lastly, we do have under our liability
18 policy for error trades under our Rule 588, if a
19 party has been known to be responsible for
20 entering orders that results in errors or price
21 adjustments, because it was outside our prescribed
22 limits, those parties may very well be held liable

1 for the losses that have been realized by the
2 persons whose trades were busted or price
3 adjusted. So again, those parameters are very
4 clearly outlined in our rules.

5 CHAIRMAN GENSLER: You mentioned
6 parameters on order-to-trade ratio, so it's the
7 number of orders per trade, and I didn't know if
8 you had --

9 MR. DURKIN: That's actually articulated
10 in the policy.

11 CHAIRMAN GENSLER: Right, but I was
12 curious what the -- I'm an old numbers guy. What
13 is the ratio itself?

14 MR. DURKIN: You know, it's broken down
15 by market, so it's a whole litany across every
16 product. We look at order to trade ratio, and we
17 update those routinely so it's not just stagnant.
18 We'll look at the demographics of the market, and
19 we're in routine communication with the market
20 participants in terms of why they're changing,
21 what they're --

22 CHAIRMAN GENSLER: Is that on your

1 website or somewhere?

2 MR. DURKIN: Correct, and I'll get them
3 to you.

4 COMMISSIONER O'MALIA: I guess before we
5 go to break, I asked about the quote stuffing, and
6 Chris said yeah, he's seen it in nat gas and oil.
7 Either one of the exchanges want to comment on
8 what the policy might be to address that?

9 MR. DURKIN: Well, I think I commented
10 on my policy in terms of our requirements for
11 being subjected to investigatory process and
12 prosecution if you're found to have been engaging
13 in disruptive practices to the exchange.

14 So we have a very extensive regulatory
15 surveillance program that looks at activities on a
16 daily basis, and if in our monitoring or through
17 any allegations that come our way that we're able
18 to find and build a case, we take the appropriate
19 action.

20 COMMISSIONER O'MALIA: Have you caught
21 this quote stuffing yet? Or identified it?

22 MR. DURKIN: I'm not prepared to talk

1 about any specific cases.

2 CHAIRMAN GENSLER: I was wondering if
3 Chuck had anything from ICE. We've heard so much
4 from CME, you've been kind of --

5 MR. VICE: Bryan's done a great job.

6 CHAIRMAN GENSLER: I know the press is
7 here and everything, but we always like to give
8 you equal access.

9 MR. VICE: I agree with essentially
10 everything he said, and we have very similar
11 policies, as you might suspect. I mean,
12 particularly on the volume ratio, we're in the
13 process of enhancing that policy so that it
14 additionally penalizes orders that are further
15 away from market. So the further away you are, it
16 has a multiplier effect on what your score would
17 be, therefore, and likely that you would incur
18 some kind of charge. So we're in the process of
19 kind of overhauling, taking that multiplier into
20 effect, what are appropriate benchmarks. As Bryan
21 said, in these different markets, depending on
22 what the liquidity is, you develop different

1 benchmarks.

2 We dialogue with the high-frequency
3 traders on a daily basis, giving them feedback
4 independent of formal policies, giving them
5 feedback if we're seeing a lot of orders from some
6 high-frequency trader, particularly if it's not
7 one we typically see that level of orders from.
8 And they have tremendous downside if they have
9 problems, as we all know, so there's in addition,
10 I think, to the exchange penalties, it's more than
11 like if anything goes wrong on their end, they're
12 going to lose a lot of money in the market to
13 begin with.

14 So I think even before the CFTC gets to
15 the point of piling on with some additional
16 enforcement, which I'm not arguing against, but I
17 think there's ample deterrent incentives in the
18 marketplace already for the high-frequency traders
19 to do a good job of programming their algorithms
20 and testing and working with the exchange and the
21 conformance with the exchange, making sure it's
22 behaving as they would expect it would.

1 COMMISSIONER O'MALIA: Commissioner
2 Chilton, do you have anything before we move to a
3 break?

4 COMMISSIONER CHILTON: No, thank you.

5 COMMISSIONER O'MALIA: Anybody? Last
6 comments? Thoughts? We'll take a 15-minute break
7 and come back here and talk about some SEFs for a
8 while.

9 (Break.)

10 COMMISSIONER O'MALIA: We are now going
11 to move to the SEF, and we have two CFTC
12 individuals. We have a switch. Mauricio Melara
13 is on the SEF rule-making team and has the
14 challenge of interpreting the statutory direction
15 and developing a regulatory framework for swap
16 execution facilities. He will highlight the
17 issues surrounding the enhanced transparency and
18 price discovery associated with SEFs.

19 We also have John Rogers, who is our
20 Chief Information Officer with the CFTC who will
21 outline the technological challenges facing the
22 Commission and keeping pace with the data

1 collection and market-surveillance
2 responsibilities to aggregate data from both
3 futures and swaps markets, and to do so in near or
4 real-time capability, which currently is beyond
5 our reach.

6 I've also asked two Committee members
7 seating the panel here. Tom Secunda, Chief
8 Technology Officer with Bloomberg, will provide
9 his perspective on the SEF definition and on
10 technology -- as a technology and execution
11 provider in an OTC market, and how Bloomberg
12 facilities will facilitate pre-trade transparency.

13 And Michael Cosgrove is Managing
14 Director-Head of Commodities & Energy Brokerage,
15 North America, GFI Group. Also a tech member, and
16 will provide his perspectives and that of the
17 voice-broker community on the SEF execution.
18 Mauricio, let's start with you. Thanks.

19 MR. MELARA: Thank you, Commissioner,
20 and thank you for the Chairman and the other
21 commissioners for allowing me to present on swap
22 execution facilities. By the way, this is Tab 7

1 of the meeting booklet, if anyone wants to follow
2 along to the power point.

3 It would be hard to do better than Bob
4 Pease on the process piece and explanation of the
5 implementation of the Dodd-Frank Act, so I won't
6 try to do that. He did a superb job. Everything
7 applicable to the efforts that the staff is
8 undertaking to write rules to implement our
9 section, Section 733 of the Dodd-Frank Act,
10 applies here as well.

11 One of the efforts that we have
12 undertaken has been to take as many public
13 meetings and to participate in as many events such
14 as this to gather information and to be able to
15 recommend rules that are faithful to the statute,
16 and at the same time, take different perspectives
17 and viewpoints of the market at large.

18 So again, one note that I want to make
19 is that the views that I present here are my own
20 and do not reflect those of the Commission or any
21 individual commissioner.

22 Swap execution facilities under the

1 Dodd-Frank Act are addressed in a couple of
2 places. One is Section 721, the definition
3 section of Title 7, and Section 733 of the Act.
4 Section 721-850 lays out the definition, and
5 Section 733 outlines the registration requirement
6 and the core principles applicable to swap
7 execution facilities.

8 The purpose and objectives of this
9 particular rule making are to, one, establish the
10 requirements for the new type of regulated entity.
11 That's the SEF; two, to implement the 15 core
12 principles applicable under the statute under
13 Section 733; three, to promote the goals under
14 Section 733(e), one being the promotion of trading
15 of Swaps and swap execution facilities, and two,
16 to promote pre-trade price transparency in the
17 swaps market.

18 Finally, although not expressed in the
19 statute -- in Section 733, rather, one of the
20 purposes of the rule making and one of our
21 objectives is to coordinate with the SEC to
22 harmonize rules applicable to swap execution

1 facilities and security by swap execution
2 facilities.

3 The rule-making elements that the
4 rule-making team is undertaking include
5 establishing a working interpretation of the
6 statutory definition for swap execution
7 facilities. In your materials, we have the
8 applicable and statutory relevant sections for
9 swap execution facilities, and that's at the very
10 top of the materials included there. I believe
11 that would be -- they've been included elsewhere
12 in the Table of Contents.

13 I might as well read the definition,
14 which is very familiar to quite a few of the
15 participants here. The swap execution facility
16 definition reads as follows: "The term 'swap
17 execution facility' means a trading system or
18 platform in which multiple participants have the
19 ability to execute or trade swaps by accepting
20 bids and offers made by multiple participants in
21 the facility or system through any means of
22 interstate commerce, including any trading

1 facility that, (A) facilitates the execution of
2 swaps between persons, and (B) is not a designated
3 contract market."

4 The second element of the rule making is
5 to adopt the swap execution facility registration
6 procedures, in which applicants must submit an
7 application and go through an approval process,
8 and through which we have determined so far at the
9 staff level that such process should be similar to
10 that applicable to designated contract markets
11 currently.

12 The third aspect of the rule making is
13 to develop regulations and guidance related to the
14 core principles, which are fairly comprehensive.
15 They address general subject matters such as
16 compliance with rules, the timely publication of
17 trading information, recordkeeping and reporting
18 requirements, and system safeguards, provisions,
19 as well as safeguarding against manipulation,
20 managing conflicts of interest and addressing
21 responsibilities and procedures during a market
22 event. In other words, emergency authority

1 actions.

2 Finally, some of the issues that staff
3 have been reviewing include the interpretation of
4 the statutory definition of a SEF. In particular,
5 what the references to trading system or platform
6 mean. Also, what the multiple participant to
7 multiple participant requirement is meant to
8 include and address. And also, how block trades
9 interact in that within the definition. Finally,
10 any means of interstate commerce, what the
11 language in the definition is supposed to address.

12 Another issue that the staff has been
13 looking at is how swaps are fundable and tradable
14 on multiple swap execution facilities and
15 designated contract markets. It's expected that
16 no single swap execution facility will have the
17 information on positions or trades for the entire
18 swaps markets, and therefore, we have resulting
19 cross-market issues, which include the monitoring
20 of market manipulation and trading abuses, the
21 enforcement of position limits, and the procedures
22 and responsibilities that market participants and

1 regulators would have when facing emergency
2 actions.

3 With that overview, I'm happy to take
4 any questions that the panel might have, and I'm
5 also ready to ask a few questions on behalf of the
6 staff.

7 COMMISSIONER O'MALIA: Does anybody have
8 any questions for Mauricio? If not, we'll go to
9 John Rogers, who can highlight our technological
10 challenges facing the Commission enforcing and
11 surveilling us.

12 MR. ROGERS: Thank you very much. Thank
13 you for the opportunity to speak today. I believe
14 the term that was used when I was approached for
15 this was what is it that keeps you up at night, so
16 this is some of the things that keep me up at
17 night.

18 I wanted to also add you've heard from a
19 lawyer, you've heard from an economist. Now
20 you're hearing from an IT guy. As is customary,
21 I'd like to note that all statements and opinions
22 are my own and do not necessarily represent the

1 views of any commissioner or the Commission. I'm
2 pleased to talk about what we're doing as we
3 contemplate how the Dodd-Frank Act will impact our
4 IT operations and the mission-related activities
5 they support.

6 As I go into the specifics of the
7 technology considerations of Dodd-Frank, I would
8 also describe what we do in OITS related to
9 futures data, since I believe it has a strong
10 relationship to how we would implement Dodd-Frank
11 requirements of the Commission. My primary focus
12 for the discussion is on what data the Commission
13 may require, when we may need it, how we would
14 get it, how we would use it, and in what form it
15 should be delivered.

16 One significant area of focus within
17 OITS is the collection, processing and utilization
18 of data at the Commission. In the futures space,
19 we collect millions of records daily for use by
20 various automated systems supporting trade
21 practice compliance, large trader reporting,
22 market surveillance, risk surveillance, economic

1 analysis and enforcement investigations.

2 Over time, we have automated the
3 collection of this information so that economists,
4 investigators and attorneys have information
5 available to them when they arrive at work in the
6 morning. The ability to provide this level of
7 automation was very helpful in the events such as
8 May 6, where we were able to load and make
9 available the data for that particular time period
10 of interest within hours.

11 Within the context of data collection
12 and management, I will discuss six areas: Data
13 standardization, data aggregation and the need for
14 unique identifiers, routine data collection versus
15 ad hoc data access, data calculation
16 responsibilities, data sharing with other
17 regulators, and data utilization by the
18 Commission.

19 As is common with organizations
20 processing large volumes of data from various
21 sources, we have focused on data standardization.
22 Our ability to utilize data standards such as

1 FIX ML for the capture of trade data has greatly
2 enabled our ability to load data more quickly for
3 use on the May 6 analysis and in many other
4 situations.

5 Our work toward applying XML-based
6 standards for other types of data continues in the
7 futures market as we look to collect order data
8 and large-trader data in a standard XML-based
9 format. As a continuation of our data
10 standardization core principal, we would expect to
11 develop data standards to receive and process
12 swaps data.

13 The development of the data standard and
14 its application has been accomplished with
15 considerable feedback from industry participants
16 providing the data. While the rule-making process
17 necessarily formalizes communications, in OITS, we
18 would expect to continue this approach wherever
19 possible.

20 One of the challenges we face related to
21 data collection is first defining the data that we
22 routinely need at the Commission in order to

1 support our mission functions. It's my
2 expectation that we will continue to have such
3 data delivered in a standardized form and in a
4 consistent manner to the Commission within a
5 particular time frame for automatic loading into
6 systems so that it would be readily available to
7 Commission staff. The goal would be that the
8 Commission staff would have a familiar set of
9 technologies at the Commission with timely data
10 available for their analysis. I did not
11 specifically mention a time window, because that
12 would be something that would be determined in the
13 process.

14 Just as we know the data requirements
15 are different for trade practice surveillance,
16 large-trader reporting and other functions, we
17 expect that data requirements will be different
18 for swaps. In addition, we are considering how
19 data requirements may differ based on asset
20 classes associated with swaps. These requirements
21 must all be defined in detail to enable automated
22 systems to be built on top of the data collected.

1 As part of the data-collection effort
2 related to swaps, we are considering the potential
3 sources of data collection in futures. We collect
4 data from FCMs, DCOs and DCMs, to name a few. In
5 swaps, we are discussing how we might collect data
6 from swaps data repositories, swaps execution
7 facilities and other entities.

8 As part of this activity, we must
9 consider the method of delivery from both a volume
10 perspective and from a security perspective. We
11 must also consider the technological capability of
12 reporting entities from end users to swaps
13 dealers.

14 We are also considering what we must
15 collect from one entity such as a SEF as an
16 interim step while fully-functioning SDRs are
17 coming online. We expect that both industry and
18 regulators will need to phase-in technology just
19 as the regulatory approach is being phased in.

20 Another key area of data collection will
21 be recognizing the distinction of data collected
22 routinely versus data collected on an ad hoc

1 basis. It is the goal of OITS to define how data
2 fits into those two categories. Expecting that
3 ad hoc data may live away from CFTC and an SDR,
4 for example, and not be part of a regular delivery
5 process to the Commission. Instead, the
6 Commission would have access to that data through
7 a direct link to the SDR. The Commission would
8 also have the ability to download ad hoc data for
9 further analysis, defining the sets of data that
10 are routinely provided for our common functions as
11 well as understanding what data needs to be
12 collected as needed is the important future
13 activity.

14 Given that we expected to find the set
15 of uniquely required data, we are not concerned
16 about the volumes of data that we would collect.
17 Even without such a definition, the data in terms
18 of the number of rows collected is not expected to
19 be overly burdensome when compared to the futures
20 data volumes. We expect the number of columns
21 required to vary by asset classes for swaps, but
22 we would expect only to be collecting a subset of

1 data on a routine basis.

2 One data collection expectation that is
3 being considered is the general principle that
4 calculations were ever possible would be performed
5 by the external entities and reported with other
6 data being reported to the Commission. As an
7 example, net present value calculations would be
8 performed at the SEF and/or SDR level prior to
9 reporting to CFTC. In addition to the values used
10 to calculate the net present value would be
11 available so the commission staff can determine if
12 net present value appears reasonably stated.

13 One area of considerable discussion
14 right now is the notion of how data might be
15 aggregated to cross SDRs and SEFs. Since trading
16 activities and like products could occur across
17 multiple SEFs and reported to different swaps data
18 repositories, we must devise a method of
19 aggregation that allows the Commission to perform
20 information analysis using data received from
21 multiple reporting entities. An example of that
22 would be risk surveillance where the Commission

1 would be interested in looking at all positions in
2 the account to perform stress testing and to
3 assess risk associated with firms' positions.

4 The Commission will need an aggregated
5 view into this data to perform the required risk
6 surveillance function. A key component of being
7 able to conduct aggregation across SDRs and SEFs
8 that is currently discussed is the application of
9 a unique identifier for market participants,
10 sometimes called a counterparty ID.

11 Many if not all of the software systems
12 this I have seen in the swaps markets currently
13 utilize a system specific unique identifier. The
14 challenges there is that there is not one unique
15 identifier shared among the systems. Aggregation
16 becomes considerably more difficult and manually
17 intensive without a unique identifier.

18 A unique participant identifier is an
19 essential ingredient to systemic oversight because
20 of its ability to enable aggregation of data. It
21 must be noted that the implementation of such an
22 identifier would require major changes to existing

1 industry systems.

2 In addition to changing existing
3 systems, determining how a unique identifier would
4 be established and managed is another large task
5 requiring a technology implementation by some
6 organization or organizations. I would expect the
7 issuance of an ID would be part of a registration
8 function performed by one or more organizations,
9 with the main objective being to ensure uniqueness
10 and avoid duplication. That is, two participants
11 with one ID or one participant with multiple IDs.
12 I would also expect that this ID would have the
13 potential to be shared by all market participants
14 and potentially by other regulators.

15 The last key component of the unique
16 identifier challenge is determining the
17 relationship between swaps data and futures data.
18 It will be necessary to establish a data linkage
19 between the swaps and futures data sets so that
20 the Commission can aggregate position limits
21 across both markets, conduct risk analyses and
22 stress tests and perform economic analysis.

1 One implication of this scenario is that
2 a unique participant identifier would also require
3 use by participants in the futures market.

4 Without such a requirement associating swaps
5 participants with futures participants would
6 require laborious manual effort.

7 There are expected to be other forms of
8 aggregation requirements that will be essential
9 for information analysis such as cross products.

10 It's expected that a unique identifier for
11 products will also be necessary. This concept is
12 important to the mission functions of the
13 Commission and will again require systems
14 modifications so that visibility into trading in
15 the same product across SEFs or housed in
16 different SDRs can be achieved.

17 Once data is defined, processed and
18 aggregated, the next steps is to determine how we
19 will use it. I would expect that OITS will need
20 to build technology capabilities to support the
21 Dodd-Frank rule making. At the beginning of this
22 process, I would expect that we would modify

1 CFTC.gov to develop new capabilities to receive
2 SEF and SDR applications. On the other end of the
3 process, I expect that we would be modifying
4 CFTC.gov to meet public data transparency
5 requirements.

6 Between those two end points, I envision
7 that we'll be revising existing systems and
8 building new ones to support the core mission
9 functions; namely, trade practice surveillance,
10 large trader reporting, market surveillance, risk
11 surveillance, economic analysis and enforcement
12 investigations.

13 The process of gathering high-level
14 requirements for technology is beginning to take
15 shape as the rule-making process continues, but
16 considerable work remains on detailed requirements
17 definition, business process design, solution
18 design and technology implementation. The pace of
19 the technology change will be based on the timing
20 requirements of the specific rules.

21 Thank you very much for the opportunity
22 to speak, and I'd be happy to answer any

1 questions.

2 COMMISSIONER O'MALIA: Well, I'm
3 relieved to hear this isn't going to be hard.
4 Let's go back to the SEF and the practitioners of
5 this market. So Tom, if you'd --

6 MR. SECUNDA: Sure. I'd like to take
7 just a quick step back and talk about Dodd-Frank a
8 little bit. When you look at the problems that
9 were trying to be solved, certainly the problems
10 of central querying to take care of counterparty
11 risk was very important, and trade reporting to
12 take care of transparency types of risk. And when
13 you go and you look at the role of SEF, the SEF's
14 job is about liquidity and facilitating both the
15 querying and the reporting mechanism.

16 I'd like to talk to you a little bit
17 about querying and transparency and how the SEF
18 and some examples of how Bloomberg has done this
19 in other markets and what kind of technology is
20 involved, then move a little bit into the
21 different kinds of mechanisms that we use to do
22 trading and talk about the pros and cons, and

1 again, the technical implications of those.

2 To start with, in terms of central
3 querying, there are many different querying
4 organizations out there that are now willing and
5 able to do swaps. Given some of the standards
6 that exist, or even given the existence of many of
7 these exchanges for a long time, many firms are
8 ready-wired up to them, Bloomberg included, but
9 one of the things that's nice about what we're
10 talking about, in almost all of these areas, we're
11 not a sole player, that there are many players in
12 these areas. So there's many people that hook up
13 to CME and to ICE and to some of the other players
14 out there.

15 The one thing we'd like to caution
16 about, though, is that there's often third-party
17 people that sit in between and are exclusive to
18 different querying corps. Our view is that the
19 querying corp, the reporting organizations and the
20 SEFs and the distribution organizations like
21 Bloomberg should be all independent and
22 competitive amongst themselves, and no one

1 querying guy should be able to force a business to
2 a SEF and then to a market data vendor, or a
3 market data vendor upstream the other way. That
4 openness and not having a middle man that
5 monetizes their position in the middle is
6 important.

7 The same thing is true with
8 transparency. It's very clear that it is quite
9 possible to report trades when they happen.
10 There's a question of do you want to report block
11 trades. In other words, we do a trade and we
12 report it at trade time, not at allocation time.
13 It depends whether you're looking for market
14 transparency; in other words, knowing what's
15 trading, or are they looking at querying and
16 counterparty risk. There's also nothing to be
17 said that both are independent actions and both
18 can't be done. I think pretty much everybody in
19 the business now has the ability -- should have
20 the ability to redistribute at trade time on a
21 block trade.

22 Same thing I -- since I'm sitting next

1 to Steven here, one of the very successful
2 regulations, legislations that have happened in
3 the OTC market for corporate bonds and now
4 agencies and municipal bonds was trace reporting,
5 where trades had to be reported. I think it used
6 to be 15 minutes -- still 15 minutes? And that
7 those trades would have to be reported with size
8 and other kinds of information. And that
9 information would be available back to the market
10 at a fee. I think that it's available the next
11 day to anybody without a fee or at a reduced fee.

12 That's a model that we can support. We
13 again want to be very careful that the person that
14 has, in a sense, the control of that data, that's
15 in charge of that data, is more of a utility type
16 of company and doesn't try to be in that unique
17 position to monetize the control of information
18 that they've been granted by the regulatory body.
19 So that's very, very important to us.

20 But where we stand at Bloomberg, we have
21 a whole host of different ways that in the OTC,
22 treasury market, corporate bond market, agency

1 market, mortgage-backed market, we report. I'd
2 like to take you through a couple of these
3 different mechanisms we use and talk about how
4 they might apply to being a SEF or not being a SEF
5 or might apply to block trades that trade
6 differently maybe than the smaller trades that are
7 reported, that are done through the SEF.

8 We have a wide range of different ways.
9 I'll start with the way that's used, which is
10 basically automating voice trades, and end up sort
11 of with a limit order book concept.

12 In many of the markets, trades are done
13 over the phone because advice is given in
14 consultation. It's not that I'm going to buy a
15 specific security. It's that I have a need and I
16 want to understand what you can do to help me with
17 that need. And it's usually not one phone call,
18 it's multiple phone calls, but at the end of the
19 process, a ticket is written.

20 And what we've done at Bloomberg -- and
21 again, we are not unique. There are two or three
22 other players that do pretty much what we do. We

1 ask the salesperson that made that sale to write a
2 ticket into our system or into their own system
3 that feeds into our system. That ticket is then
4 sent to the buy-side participant, who acknowledges
5 it.

6 I'll give you an idea. In some of the
7 credit products, not only will we do that, but
8 we'll flash and tell the recipient if there's
9 something strange, a funny settlement date, a
10 funny size, so that not only are you getting a
11 digital copy of what used to be a voice copy, but
12 you're getting a warning that there was something
13 different than what was normal here.

14 On top of that, it's being done between
15 the salesperson and the portfolio manager or
16 trader and the trader, who are the professionals
17 who know the trade, versus often these things are
18 done in the back office between middle-office
19 people who no longer remember the trade.

20 And also, the timeliness of the middle
21 office after allocation confirm could be a day,
22 half a day. So by moving it and making it a

1 front-office product and not a back-office
2 product, we're able to get disclosure of
3 information, but also much cleaner information.
4 Now again, that doesn't get you querying, because
5 you then have to allocate the trade, but it does
6 get you trade reporting.

7 The next step up is something which is
8 very commonly called request for quotes, where you
9 go out and you say look, I want to buy 50 million
10 long bonds, tell me what you can do for me, and
11 you go out to a certain number of guys, five,
12 three, eight, really selectable by the market, an
13 you get responses and you pick the best offering
14 that you can get, the best bid that you can get.
15 So that is one mechanism, and I'll talk about the
16 pros and cons.

17 We also sort of have another mechanism
18 that we use which we -- Bloomberg jargon, I
19 apologize. Any customers out here? We have a
20 function called all Q, where independent dealers
21 will go out and make markets in a security, and an
22 investor will go out and say, show me who's making

1 markets on this particular bond. And you'll see a
2 list with real prices. I think we need a
3 98 percent acceptance rate or something like that,
4 and then you can hit the bid. So it's multi to
5 multi. It's many people showing to many people.
6 When it comes time to pick, it's only me talking
7 to the guy that gave me the best bid or offer.

8 Now, we actually like this mechanism,
9 and this mechanism has been very well received by
10 both the investment community and the selling
11 community. Because it stops some of the problems
12 like front running or the winner's curse. I mean,
13 think about it. If I go out and have to tell five
14 people that I'm doing a big trade, the guy who
15 wins it now has to go and do the other side of
16 that trade in a marketplace that knows that he did
17 it. Even worse than that, if I'm not one of the
18 guys that did it, I'm exposed because I have a
19 lack of information.

20 So the request-to-quote system, which
21 works well and we use it, in very liquid markets
22 works really poorly when the amount of liquidity

1 you're doing can move the market. Counterpose
2 that with my all Q mechanism, I'm looking at the
3 best players, so I get to pick the guy who has the
4 best price, but I only tell that person to trade.
5 And I don't tell them to trade until I have to do
6 that trade.

7 Of course, the final step is sort of a
8 limited-order book where you can go and manage
9 market depth and work like many of the exchanges
10 were. Before I get -- and actually, as part of
11 talking to that, not before I talk to that, is
12 it's kind of an interesting thing that's going on
13 here. Typically, whether it's the SEC or the
14 CFTC, typically, the regulations are about the
15 exchanges or about the participants in the
16 exchanges, the market makers. And sometimes, yes,
17 there's high-frequency traders and hedge funds
18 that play a middle role between investment company
19 and a market maker. But most investment companies
20 are only regulated to the extent that the people
21 they're buying and selling from are regulated.

22 So really, for the first time, we're

1 talking about regulating the buy side, which is
2 really kind of a funny thing. We're talking about
3 investors now being told on how they're going to
4 trade with the dealers. And that's why it's
5 important to look at these things. If this was
6 between market makers and market makers, that
7 would be fine, but we've tried a couple of times
8 and we've seen tried many times in the past where
9 you intermingle the buy side and the sell side in
10 a market maker type facility, and the problem is,
11 if I'm an investor, what I want to do is get my
12 block done. I'm not really prepared to work
13 against high-frequency traders or big broker
14 dealers and try to get the best 32nd. What I
15 don't want to do is I don't want to move the
16 market. I want to get in there where the market
17 is, because that's where my trade works. So in
18 many markets and most of the regulated markets, I
19 would do that trade with a market maker or
20 participant and they would then take the
21 market-making risk of trying to unwind that trade.
22 So when we start looking at how we're going to

1 move the SEFs, if we're moving the SEFs into the
2 buy side, then we have to be conscious not of the
3 way we would normally do a sell side to sell side
4 transaction, but we have to start looking at how
5 the buy side interacts. And it's a very different
6 kind of system. In the end, I think that it's
7 fair to say that we're regulating, we're trying to
8 protect the investment community, and to the
9 extent we introduce regulations that make
10 investors start having to compete with market
11 makers or compete on exchanges, we're not doing
12 them a service. As a matter of fact, that is the
13 service they're paying the sell side for.

14 So when we look at the full spectrum of
15 things, we sort of love the limit order book or
16 love a broker, inter-broker system for brokers to
17 talk to brokers, but when you start extending that
18 to the buy side, that's when there's a different
19 kind of SEF we think necessary so that they can
20 get their transactions done without having to
21 compete in this market-maker type space.

22 So that's basically it for us. When it

1 comes to technology, I think there are many, many
2 players now, and again, the thing that I would
3 caution the most about is to make sure that
4 whether it's Bloomberg being a SEF or CME being a
5 clearing house, that we're all out to compete in
6 all these different spaces, unimpeded by the
7 person in the middle who has control of some part
8 of that operation.

9 And it was interesting in the technology
10 discussion that you're thinking about unique
11 customer IDs. We've talked in the past about even
12 having unique product IDs. And again, we think
13 that it's very, very important that these things
14 are available and available to all SEFs and all
15 querying corps and all reporting mechanisms at
16 more of a price point that is for a service
17 utility type organization and not a purely for
18 profit kind of thing, because once you're the sole
19 provider, the price you can charge becomes
20 anything you want it to be. Just as a Bloomberg
21 offer, we've published all of our identifiers. We
22 don't complete the entire world, but for the world

1 that we cover to the web is an open source, and we
2 certainly offer that to the extent that
3 contractually we can do it and to the extent that
4 the Commission wants it, we would offer those kind
5 of identifiers as open source and loose, and to
6 the extent that some other organization wanted to
7 control them, we'd be happy for that. We think
8 that it's important for the marketplace to have
9 common nomenclature. We haven't anticipated,
10 although you're absolutely right. I didn't come
11 here anticipating a unique ID system. There are
12 many players in that space as well. We don't have
13 to be one of them. Thank you.

14 CHAIRMAN GENSLER: I just wanted, Tom,
15 to clarify, because we were having -- are you
16 saying that you think the buy side should have
17 access to SEFs? That's how I read the statute,
18 because it says it has to have impartial access.
19 There's both open access for clearing houses, but
20 then the SEFs impartial access. You're saying
21 they should and then we have to be conscious that
22 there's ramifications or you're saying they

1 shouldn't have access?

2 MR. SECUNDA: No, I'm not actually
3 saying they should, but I'm saying the kind of SEF
4 might be different. That the concept of limit
5 order book, where algorithms and people are
6 competing is not something that a buy-side guy, a
7 pure-investor guy would be interested in, because
8 he'd then have to take -- when you go and you buy
9 a mutual fund, muni-mutual funds, or in this case,
10 a fixed-income mutual fund that's using swaps, you
11 really don't want them to be taking market risks
12 or spending their money in trading execution. You
13 want them to be making their money by position
14 taking.

15 CHAIRMAN GENSLER: Right, but I gather
16 you are saying -- I mean, I can't speak for my
17 fellow commissioners. My read of the statute is
18 we're supposed to give impartial access. That
19 says it in the statute, so whether you're a buy
20 side, you're an end user, you're a dealer, that
21 you have access to these SEFs and whatever
22 pre-trade -- wherever we come out on request for

1 quote, wherever we come out on all these really
2 important issues you raised, I thought that we
3 were pretty clear we have to give impartial access
4 to whomever wants to come in and use these things,
5 and it sounds like you're saying the same thing.

6 MR. SECUNDA: Yeah, I'm not -- it's very
7 hard to define what an investor is and what a
8 market maker is, and clearly, people will want to
9 play where they want to play. Certainly we're not
10 in a position to object or even comment on that.
11 I guess we're in a position after looking at how
12 people use our technology in talking to our
13 customers to hope that there is a way that there
14 will be an additional mechanism for them to play
15 in the marketplace as they'd like to play in the
16 marketplace.

17 CHAIRMAN GENSLER: If I could say one
18 more thing. Given that the statute says that we
19 can -- and I think it might have even said shall,
20 but at least we can have block-trading rules, and
21 I know staff are working on that. A block trading
22 in essence takes somebody out of pre-trade

1 transparency, so some of what you're saying might
2 be addressed through the block trading.

3 You know, if somebody comes in and
4 they're that big mutual fund and wants to
5 billion-dollar trade, that might be out because
6 it's a block.

7 MR. SECUNDA: That's absolutely true,
8 and we would propose -- you know, the beauty about
9 block trading over a system like we talked about
10 called VCON, but again, is available through many
11 other sources than Bloomberg, is that you can
12 still get price transparency to the extent that's
13 it's right to ask for that through the VCON type
14 system for a block.

15 But also just, again, whether I have --
16 you're absolutely right that on big trades, it has
17 a much bigger effect -- we talked about this --
18 even in electronically active markets has a much
19 bigger effect. But even when it comes time to go
20 and buy reasonably-sized positions, it would be
21 nice for me as a buy-side guy saying I don't want
22 to have to work the exchange to make that happen.

1 I want to sell that position to somebody or buy
2 that position from somebody and let them work the
3 exchange, and having that kind of a mechanism that
4 gives us transparency, gives us multi to multi,
5 gives us what the statute says we have to have
6 without me having to go and build my own
7 algorithmic trading and high-frequency trading
8 operation just to get my trades done.

9 CHAIRMAN GENSLER: Are you talking about
10 something that's below the block sizes then?

11 MR. SECUNDA: Yes, I am. I'm basically
12 saying that in many cases, clearly the bigger the
13 size, the more important it is, but even with a
14 small size, in a very liquid market matters less,
15 but as the markets get less and less liquid, you
16 have to work a trade of a size that you might
17 consider below the block. Now, maybe you can
18 adjust block sizes to make that happen, but again,
19 I think that having the capability of an
20 investment firm to get a trade done without having
21 to work the market aggressively would be a
22 powerful thing, and really does exist in the

1 equity market and your futures market as they
2 exist today. So the SEF idea, to an extent, is
3 moving beyond the kind of regulation that already
4 exists in your futures market. And to that
5 extent, you should look at its effect on the
6 investment community, which in the end is one of
7 the major reasons why we regulate is to protect
8 that investment.

9 COMMISSIONER O'MALIA: Thank you very
10 much. Michael?

11 MR. COSGROVE: Thanks for giving me the
12 opportunity to contribute to this discussion this
13 afternoon. I'd like to start by putting what I'm
14 about to say into a bit of a context. I know that
15 my company and companies like mine have been
16 referred to as voice brokers repeatedly, and I
17 want to first of all sort of describe the industry
18 group that we formed to advocate on behalf of our
19 businesses and the markets.

20 My company, GFI, along with BGC
21 Partners, Icap, Tradition and Tullett Prebon
22 formed the Wholesale Market Brokers' Association

1 Americas, and our intention was to essentially
2 advocate not only for what we do, but also for the
3 health and vitality of our markets.

4 In fact, while we do collectively employ
5 thousands of individuals who are voice brokers, we
6 also operate some of the largest electronic
7 markets that you'll find in our spaces. GFI
8 operates EnergyMatch, CreditMatch and ForexMatch.
9 Icap operates EVS and Broker Tech, and of course
10 ICE purchased CreditEx not long ago and employs
11 voice brokers along with operating electronic
12 markets.

13 So I'm not here simply to plead for full
14 employment for our employees and those of our
15 competitors, but rather to make the distinction
16 that we apply -- we use voice brokers in markets
17 where we believe that that's the right approach.

18 We employ technology as aggressively as
19 we can and we invest in that, because we find that
20 it makes our voice brokers more powerful and more
21 productive, and we also find that from a simple
22 revenue and profit standpoint, all you have to do

1 is look at recent financial statements that the
2 CME and ICE publish and you see 67 percent profit
3 margins. Those are enviable, and anyone in their
4 right mind who would be capable of deploying a
5 model to produce that kind of profit would do so.
6 And I'm not revealing any secret information. I
7 just read the 10-Qs.

8 CHAIRMAN GENSLER: What's GFI's profit
9 margin?

10 MR. COSGROVE: Less. That's the point
11 where I say don't look behind the curtain. It is
12 less.

13 Now, having sort of started with that, I
14 had a list of items that I was going to cover very
15 quickly here, and ultimately, what I'm going to
16 suggest is that I believe that our current
17 business models, GFI's and our competitors, do
18 actually meet the definition of SEFs as near as we
19 can determine them from the Dodd-Frank
20 legislation. But I wanted to start by just asking
21 a few questions, because I was under the
22 impression that it would be useful to help sort of

1 stimulate this discussion.

2 I think the first objective that we have
3 must be to do no harm. And then I think the
4 second is do we have to ask for whom we seek to
5 improve the markets: The largest number of
6 participants? For hedgers? For small investors?

7 I think the third thing we want to ask
8 is should we have a single standard for all
9 markets, and if not, how do we stratify markets
10 for the purpose of applying regulation? I would
11 suggest that from our experience, we operate
12 exclusively in professional markets. We don't
13 deal with retail customers. Our customers are all
14 eligible commercial participants. I think that
15 they require less protection than retail
16 customers.

17 Next, do we stratify by market type?
18 For example, do we require pre-trade price
19 transparency in the Henry Hub Natural Gas swap
20 contracts under the assumption they're
21 sufficiently active, liquid and deep to produce
22 such transparency without dying under the burden?

1 Do we satisfy ourselves with near real-time
2 post-trade price transparency in markets that
3 perhaps are insufficiently robust to support
4 pre-trade price transparency?

5 Actually, a lot of this has already been
6 covered, so I'm going to skip right to what I
7 believe to be my understanding of the Dodd-Frank
8 legislation and how I believe that in the current
9 market, we do actually satisfy these broad
10 prescriptions.

11 First, Dodd-Frank will subject US swaps
12 markets to comprehensive regulation by the CFTC
13 and SEC, including registration and regulation of
14 swaps dealers, intermediaries, clearers and so
15 forth. My company and our significant competitors
16 will certainly be regulated as SEFs. And when I
17 hear that there's going to be 40 SEFs, I would be
18 such a size buyer for that. I think there will be
19 100 SEF applications.

20 CHAIRMAN GENSLER: Michael, will you
21 share that with congress? We need more funding.

22 MR. COSGROVE: You know, I'd be happy to

1 do that. There are 50 companies attempting to
2 broker OTC natural gas swaps right now. 50
3 companies. And they all want to stay in business,
4 and I think unless someone can offer them, sort of
5 lend them the SEF compliance, they're all going to
6 apply. So I think the OTC natural gas options
7 brokers, there's 50 of them, so you're going to
8 get 50 from those guys.

9 CHAIRMAN GENSLER: How many people are a
10 buyer at 40?

11 MR. COSGROVE: I think I'd be a buyer at
12 100.

13 CHAIRMAN GENSLER: Does anybody think
14 that we're high with that 30 to 40? Oh, wow. So
15 that's low.

16 MR. COSGROVE: I really think you're
17 going to get a lot more than you think.

18 COMMISSIONER O'MALIA: Mr. Chairman, I
19 think it depends on how flexible we are in letting
20 these SEFs function and what they look like.

21 COMMISSIONER DUNN: I think at some
22 point in time, we're going to have to consider the

1 capacity of staff to process applications. We may
2 have to limit it to two.

3 MR. COSGROVE: That might be okay.

4 Second, there will be comprehensive position and
5 transaction regulatory reporting. We currently
6 employ robust -- and all our competitors, too.
7 All of our significant competitors currently
8 employ robust, state-of-the-art technology to
9 capture process, reconcile and bill transactions.
10 We will be able to report transactions timely to
11 trade repositories as required, and in our
12 fixed-income business, we already report to trace,
13 and it's not at all burdensome.

14 So I think that issue of post-trade
15 transparency is a piece of cake. We just need to
16 know who to plug into and the confirmations will
17 flow automatically.

18 Third, there will be mandatory clearing
19 of clearable swap instruments. I can say that in
20 the North American natural gas and electrical
21 power markets, probably in excess of 90 percent of
22 the business that we do in those markets are

1 already cleared, and that required no directive or
2 regulation. That simply was a natural development
3 as a result of clearing being tremendously
4 beneficial to the market.

5 In fact, we could spend hours talking
6 about how valuable and enriching clearing has been
7 to these markets. So I'd be surprised if in the
8 business that we do, which is the wholesale
9 business, there would be much of a reluctance to
10 clear transactions. It's generally been very
11 beneficial, and I think the resistance would only
12 be quite limited and largely indefensible.

13 Fourth, swap transactions that are
14 subject to mandatory clearing will be required to
15 be intermediated by a swap execution facility.
16 We're going to make an application. We think we
17 qualify for that. And fifth, there will be
18 greatly enhanced public pricing transparency in
19 both pre- and post-trade time cycle.

20 Here I'd like to echo Tom's comments.
21 There are some markets where pre-trade price
22 transparency, in my opinion, would actually kill

1 the market. It is in our best interest to have
2 pre-trade price transparency. I think it serves
3 the general public interest to have that, but
4 there are some markets that require such a large
5 degree of workup and finesse, in markets where you
6 really don't have a firm bid and firm offer until
7 literally the last second. You're in a
8 collaborative discussion with a customer, and as
9 Tom said, the customer doesn't know that he needs
10 to buy this or that. The customer has a need.

11 So in the course of collaborating with a
12 customer, you could come to a point in the
13 conversation where you may have had a dozen
14 conversations with them, either over the phone or
15 instant messenger, and the customer finally says,
16 "Okay, let's buy this. Get them on the line."
17 It's difficult prior to that as you're going
18 through the discussion with them, the
19 collaboration with them, to identify a point in
20 time where you could say okay, look, if you're
21 telling me you might be a buyer at 10, I'm going
22 to have to post that for everyone to see.

1 So I think that we need to, in the
2 process of defining where and how we apply
3 pre-trade price transparency, to take into account
4 that it should be implemented wherever possible.
5 Where it would harm the markets, I think there has
6 to be some recognition of that so that we first,
7 essentially, do no harm to those markets. So that
8 sort of summarizes everything that I have to say.

9 COMMISSIONER O'MALIA: Thank you very
10 much. I'd like to get a sense from participants,
11 committee members here, what they want to see in a
12 SEF. Buy side, sell side, competitor. What are
13 the attributes mentioned by either of these
14 presentations do you want to see? What do you
15 think the most essential elements? Is it
16 pre-trade transparency? Is it execution? What is
17 it? What do we need to be thinking about here?

18 MR. HARRIS: I certainly think the goal
19 of transparency is one that the Commission should
20 be trying to achieve, but I think transparency is
21 intended to buy side, in large part. Those who
22 provide them with more information. So I think

1 it's very important that the Commission actually
2 talk to the buy side and listen to them concerning
3 which systems and facilities are appropriate and
4 are desired, and what kind of information they
5 actually need, what kind of information gives them
6 the transparency to provide for better execution
7 of their transactions.

8 I also wanted to pick up on one other
9 thing that Mike said, and that is that I think
10 it's pretty clear that different systems and
11 facilities have evolved over time, and I think
12 that there may be different SEFs that are
13 appropriate for certain classes than others, so I
14 think the Commission needs to be very flexible in
15 its definition of SEFs, not just because the
16 technology is evolving, but also because there may
17 be differences in the classes and what's
18 appropriate.

19 MR. HEHMEYER: I'm a futures guy, so
20 take this for what it's worth, Michael, but at the
21 Board of Trade in the '70s, we were told exactly
22 the same thing by the primary dealers with regard

1 to treasuries: Do no harm. Don't hurt the
2 market. It just work great, and why do we need
3 price discovery to really be transparent?

4 And so my own feeling is that -- and I'm
5 not in that market, so I definitely am not
6 somebody that's real conversant in the
7 over-the-counter nat gas markets, but the futures
8 guys tend to think if you give the market
9 transparency, in the price discovery transparency,
10 it will shrink the spreads of the markets and give
11 the public more access to information. So that's
12 where my background comes from is.

13 MR. COSGROVE: And I'm in favor of that
14 also, because as soon as we can bring a market to
15 the point where there are firm, tradable bids and
16 offers there, then we can access a far broader
17 range of customers. I mean, there's I don't know
18 how many companies in Chicago that will trade with
19 you if you can let them plug into your market as
20 opposed to pick up the telephone and talk to
21 someone about that market. So it's from a very
22 selfish perspective, as quickly as we can migrate

1 a market to a screen, the better off we'll be.

2 Having said that, there are some markets
3 that are either nascent or they are just simply
4 very, very illiquid, and if you require the
5 participants in those markets to post a firm bid
6 and a firm offer -- and really, I'm not talking
7 about -- I'm talking about markets that I think
8 many people in the room probably -- well, many
9 people in the room may be familiar with, but many
10 people outside of the room wouldn't be familiar
11 with. They may be specific natural gas basis
12 markets. They may be specific nodal power
13 markets. In those areas, if we were to require
14 customers, principal traders to post a bid and an
15 offer, my fear is that instead of having
16 transactions, we'd have very wide bid offers and
17 far fewer transactions. We wouldn't really
18 have -- in fact, we would diminish our ability to
19 take that market from its current condition and
20 continue to bring it along to the point where it
21 could be a vibrant market with full pre-trade
22 price transparency.

1 MR. HEHMEYER: Is some of that where you
2 draw the lines with regard to exotic products
3 being exempt and vanilla products being posted on
4 SEFs that have pre-trade transparency? And I
5 understand completely and respect that that gets
6 complicated quickly.

7 MR. COSGROVE: Yeah, I think so. I
8 didn't come here today with a list of markets to
9 say, well, this one should be. You know, you
10 should allow some degree of -- be satisfied with a
11 trace type reporting solution for this market, but
12 require pre-trade price transparency in these five
13 markets. But I think there are markets that
14 really do sit rather clearly on either side of a
15 line, and then there are going to be a number that
16 are sort of in the middle.

17 But I do think that the definition of a
18 SEF needs to accommodate those markets where
19 simply forcing full pre-trade price transparency
20 would I think have a harmful effect on the market.

21 MR. HEHMEYER: I respect that
22 completely. We have futures markets in some of

1 these products, and there are differences in the
2 products, and I completely respect that. But like
3 I said, my gut is that if you bring transparency
4 to pre-trade price discovery, it will make the
5 market more efficient.

6 CHAIRMAN GENSLER: My gut's been with
7 Chris for a long time, and it's not -- because I
8 just think it. But my question for you, Michael,
9 is recognizing this is only on non blocks, because
10 if it's a block trade, there's not a pre-trade.
11 And recognize this as only on something that's
12 clearable, because it's got to be on a clearing
13 house, and as congress has said, accepted for
14 trading, and then we have to define what that
15 means.

16 So it's got to be accepted for trading.
17 It's got to be clearable, meaning it's not some
18 exotic bilateral, and it's the non blocks. You're
19 still worried about some of the pre-trade
20 transparency. That might separate us, but I think
21 that's what you're saying, but I have a question.
22 So you do something by voice and there's a resting

1 bid or offer. It's not an affirmative obligation,
2 but there's a resting bid or offer. Are you all
3 right saying that as a SEF, you have to let your
4 participant or member know about that? And I
5 mean, if that's better than what you're doing on
6 the voice, to let them hit that bid or lift the
7 offer?

8 MR. COSGROVE: Yes, absolutely, and I'm
9 glad you asked that question. Even in the voice
10 markets, the voice markets are very large mini to
11 mini markets. And just to give an example, GFI
12 owns a company, Houston-based company, Amerex,
13 which has been in business for 35 years now. And
14 Amerex has 1,000 direct voice lines to customers,
15 and probably that many instant messaging
16 connections to customers also. So when a broker
17 is negotiating a transaction, all the broker's
18 colleagues are also showing that transaction to
19 their customers, and at any point in time, a
20 customer can step in and better the bid and better
21 the offer. And when you have 1,000 open lines all
22 the time, you can't actually, even in a voice

1 market, communicate a tremendous amount of
2 information and inform quite a few people. And
3 because you're not simply communicating a number
4 on a screen, which I would prefer to do, frankly,
5 you can transmit a lot of qualitative information
6 also, which I think is important again for massive
7 markets or markets that are not as actively
8 traded.

9 CHAIRMAN GENSLER: So I hear that you're
10 comfortable having an affirmative obligation,
11 maybe, to show the resting orders, and even to let
12 the resting orders participate if they're better.
13 It's just that where you're drawing a line -- and
14 I might draw the same line that you draw, but
15 where you draw a line is forcing market
16 participants actually to make a bid or make an
17 offer.

18 MR. COSGROVE: Right. That's right. I
19 think if you -- I know from my even experience, I
20 came from the crude oil markets many years ago.
21 Especially in lesser-developed markets, markets
22 that don't trade as frequently, there's a lot of

1 hand holding and lot of collaboration and a lot of
2 development that takes place, and it's difficult
3 sometimes to determine at what point someone has
4 really given an indication that qualifies as
5 something that should be broadcast, essentially.
6 And often, there's a kind of a -- often it comes
7 down to I'll do it if he'll do it.

8 In the workup prior to that, it's very
9 difficult to -- I think in the workup prior to
10 that, if we had to tell the parties, well, no, you
11 have to give me a firm bid and I have to post that
12 and everyone needs to see that, you have to give
13 me a firm offer and everyone has to post that, in
14 those markets, it would have a harmful effect. I
15 think, in fact, it would -- I'm sure that it would
16 invite a tremendous amount of gaming. I just
17 think that it would be unhelpful in some markets.

18 Having said that, I want to reaffirm
19 that my company and companies like ours are very
20 big believers in technology. We invest in it. We
21 like it. We think full pre-trade price
22 transparency is very, very important and valuable,

1 but a one-size-fits-all I fear will do harm to
2 markets that we seek to improve.

3 COMMISSIONER DUNN: Listening to Tom and
4 Mike, it seems like pre-trade, there's a lot of
5 advisory activities taking place. How do you draw
6 the line between what we see as a CTA versus
7 what's going to be a SEF?

8 CHAIRMAN GENSLER: CTA is commodity
9 trading advisor, and in the statute, the word
10 "swap" was added to it. I see one of Chairman
11 Lincoln's staff here who probably helped do that.
12 So that's why, what he's talking about.

13 MR. COSGROVE: I've actually taken the
14 Series 3 Exam three times in the last 25 years, so
15 I know -- and many, many years ago I was involved
16 with the CTA. I think a commodity trading advisor
17 is -- correct me if I'm wrong. Doesn't a
18 commodity trading advisor have the ability to
19 trade the account or do you just need that for
20 advice only? I mean, does a CTA have the ability
21 to trade the account?

22 MR. HARRIS: Yes.

1 MR. COSGROVE: Yeah. So I think clearly
2 in our business as it currently stands, we don't
3 have the ability --

4 CHAIRMAN GENSLER: It doesn't have to
5 have that.

6 MR. COSGROVE: So I'm going to have to
7 ask if you could repeat the question, because I
8 don't know exactly how to respond.

9 COMMISSIONER DUNN: I was just trying
10 to, in my mind, draw the line between the
11 distinction of being the advisor, and then at some
12 point you become the SEF where you're actually
13 doing the trade.

14 MR. COSGROVE: I see. That's a good
15 question and one that I came completely unprepared
16 for.

17 COMMISSIONER DUNN: Tom?

18 MR. SECUNDA: If I understand the
19 question right, I think somebody giving advice is
20 totally separate from the SEF. The SEF is closer
21 to where the transaction happens and not where the
22 advice goes to. So if I got -- I did not take the

1 Series 3, so I'm completely handicapped here, but
2 the SEF has no advisory role. At the least, it's
3 process is an information provider.

4 COMMISSIONER DUNN: I must have
5 misunderstood your presentation, because I thought
6 you said you initially get in and do advice.

7 MR. SECUNDA: Let me explain. It was a
8 small part of my presentation. I was trying to
9 distinguish an investor, how he might or she might
10 purchase securities versus a market maker and what
11 their role is. But often what happens in the OTC
12 markets is there's a discussion, as Michael talked
13 about, of I have this need to get something done
14 and they discuss how to do it. Now, if it turns
15 out that that thing that has to get done is a very
16 liquid item that's SEF tradable, then yeah, they
17 probably go back to the screen and get the trade
18 done. If that item -- and I think that the
19 chairman's question, I think that it breaks down
20 between what is going to be clearable and what's
21 not going to be clearable. Clearly, if what you
22 discussed is an instrument that's not clearable,

1 then it wouldn't be in the SEF and everything
2 would proceed off SEF, if you will. If it's an
3 item that's in the SEF, then you would have to go
4 back into that SEF and transact it.

5 The question that I don't have a good
6 answer for, that we have to think about, is what
7 happens to an item that could be clearable, it's
8 not too complex, it's not custom, but never
9 trades. Because how do you get a two-sided market
10 on an item that nobody wants to buy or sell except
11 for me and you. If you then force me to stop and
12 put it into the market, I might not want to buy or
13 sell much more than what I'm willing to buy or sell
14 for you, and you're happy to buy it from somebody
15 else, but I just did all the work to get you ready
16 to buy it.

17 So that's sort of the gray area where I
18 don't know how you play it. Clearly, if it's a
19 custom item, we've discussed that that wouldn't be
20 clearable and not on a SEF, and if it is a SEF
21 tradable item, then clearly, I'd be an advisor,
22 but you would then go to the SEF and purchase it

1 as if you would any other way and just remember
2 me. It's that in-between area where it's a
3 product that is understandable and not customized,
4 but not liquid and never liquid, and not likely to
5 be liquid again for a long period of time.

6 COMMISSIONER DUNN: You'll be happy to
7 know when staff was briefing me and I asked them
8 if a Series 3 would be required, I was told no.

9 MS. BOULTWOOD: Can I go back to the
10 question of what we as panel members would like to
11 see in the SEF? And like the other speakers from
12 the Committee, I think a broad definition is
13 desired.

14 I think we have to contemplate markets
15 where it's more than just a difference between
16 vanilla and exotic products. I think we have to
17 dive into the notion of what is a nascent market.
18 And some markets are just simply small, and it
19 comes down to often physical players, whether it's
20 a natural gas or power, that may have generation
21 or drilling wells in certain locations and are
22 trying to move the value of that commodity from

1 one place to another.

2 And there just aren't that many physical
3 participants at any one time to begin with, and
4 there are even fewer who are willing to transact.
5 And I think it also helps to clarify some of the
6 confusion that exists around sometimes what is a
7 market maker in some of these small, nascent,
8 illiquid markets where if you are a physical
9 participant, just the ability to quote just both a
10 bid and an offer is a signal to others in the
11 market that you're trying to do a transaction more
12 than a persistent intent to trade on both sides of
13 a market, for example.

14 So I think it is important that we
15 consider, again, the broad definition, and in the
16 very different markets that will be regulating and
17 the characteristics, and in addition to vanilla,
18 exotic, just small versus large, it's also mature
19 versus immature, and we need a system that
20 facilitates the development and maturing of
21 products and innovation in our market and rules
22 that allow SEFs to facilitate that.

1 COMMISSIONER O'MALIA: Chuck.

2 MR. WHITMAN: I have a point on that,
3 too. I think a key element of this is access, and
4 Michael, I agree with a lot of what you say. We
5 at Infinium, we execute a great deal of business
6 by a voice brokerage in addition to just executing
7 algorithmically and electronically.

8 One of the things that some of the
9 exchanges will know is that our firm has played a
10 vital role working with exchanges and developing
11 new products, and also with different brokerages.
12 Part of this discussion is key is how we define
13 this, and access is a key element to it, because
14 there's been some products we've come in to trade
15 that ahead of time, we would have been told this
16 is a dark market, it will never work. You come
17 in, it won't work. And we've come in and
18 radically changed some of these markets, brought
19 price transparency, brought regular bids and
20 offers and increased volumes. And once somebody
21 like us comes in, people will jump on our backs
22 and quote with us. All of a sudden, once we're

1 the first market maker, if they get any kind of
2 sense that things are going well, there will two
3 or three more behind us, and it will bring
4 transparency to the market.

5 We've had the flip side where we've had
6 other products we've had other products we've gone
7 and tried to do it, and it's really struggled.
8 And we've done this both electronically and by
9 voice brokerage.

10 The key element, though, I'm trying to
11 emphasize, is access. And firms like ours in many
12 cases have tightened markets and brought
13 transparency just by having access to the market.
14 And that access can come electronically. It can
15 come voice brokerage, but I hesitate anytime we
16 talk about defining something ahead of time is too
17 thin or not mature enough or too exotic to trade,
18 because I would say give me a shot at it. Give me
19 a shot at pricing it. Give me a shot at putting
20 correlations to it and I might be able to make it
21 a much better market for people. Sometimes it
22 works, sometimes it doesn't. But I feel like

1 that's a key point that I would like you guys to
2 consider as you look at this.

3 CHAIRMAN GENSLER: I think I'm
4 hearing -- I know there's people in this room that
5 don't agree with me on this pre-trade
6 transparency. Probably even on my own Commission.
7 But I haven't heard anybody disagree on this
8 impartial access -- yet. Maybe they're staying
9 quiet. Right? I mean, Tom said he thought yeah,
10 you should have access if the buy side wants to be
11 in or if Infinium wants to be in. Michael? Same
12 place? Brenda? And that there weren't people in
13 the room staying quiet on it.

14 MR. SECUNDA: I just want to add,
15 because I do agree, of course, whatever regulatory
16 regulations you need to participate, whether
17 that's margin or anything else, obviously all
18 participants are held to the same standards.

19 CHAIRMAN GENSLER: And maybe also held
20 to the standard that they have to have a futures
21 commission merchant who guarantees their trade at
22 a clearing house.

1 MS. BOULTWOOD: And Tom raised a good
2 point earlier, just about how these operate as
3 profit-making entities. I think Michael alluded
4 to it later, or just utilities, and that is an
5 important issue related to access and impartial
6 access.

7 COMMISSIONER O'MALIA: Anybody else?
8 Brian? Or commissioner Chilton, if he has a
9 question.

10 MR. DURKIN: Just to echo some of the
11 comments here today, we really are advocating for
12 not getting overly aggressive in terms of the
13 definition of the model going forward in the
14 context of adding potentially disruptive processes
15 to a market model that has served a very, very
16 important role in the OTC side of the business.

17 One of the fundamental predicates of why
18 we're here today is to address central
19 counterparty clearing and providing mechanisms in
20 place to give the safety and security behind the
21 execution of those transactions, and a number of
22 us have I think done certain creative things over

1 the years to provide that mechanism so that the
2 platform exists to provide the safety and
3 soundness of clearing. We've done it through the
4 clearport model, but one of the things that have
5 come out in this discussion today is hopefully a
6 recognition of the voice brokerage and the clear
7 importance of how that model has evolved over time
8 in supporting swap executions in general.

9 So we would certainly hope that the
10 Commission would take all of those comments into
11 consideration as we're moving forward to
12 developing this model.

13 MR. JOACHIM: Just one thought in terms
14 of the access and connectivity issue, in the
15 equity markets, they talk about fair and
16 equivalent access. When you're talking about the
17 proliferation of SEFs, defining what fair and
18 equitable access means is going to be very
19 critical. It can be everything from cost to speed
20 of connectivity, the levels of access, the kinds
21 of access you provide. I think you have to think
22 through very carefully what you mean by that to

1 give each of the SEFs very careful guideposts as
2 to what they can do and can't do, because it's
3 really going to define how your marketplace
4 operates.

5 MR. WHITMAN: I would agree the
6 definition is key. I don't have more to add than
7 that, sorry.

8 MR. SECUNDA: There's a great example,
9 you know, as Europe opened up and started having
10 lots and lots of different exchanges, it got to be
11 a point that paying exchange fees for all the
12 exchanges prohibited for smaller players, and now
13 there are many players in the market that don't
14 have full transparency because they can't afford
15 to pay for it, and they let little pieces out and
16 hope that those aren't the guys that should be
17 showing them the market now.

18 So the cost of this, although if you
19 have 100 SEFs out there, we got to come up with a
20 mechanism that each of us doesn't charge \$1,000 a
21 month to get the little bit of data that we
22 provide. It's going to be very, very important.

1 Sometimes the best intents that we have
2 create our biggest problems, so we have to make
3 sure that if we have a lot of data transparency,
4 that somebody puts it together and puts it out
5 there in a way that can be afforded again by the
6 investment community and the smaller players.

7 MR. GORELICK: I'd like to just add that
8 there is a connection between the idea of open
9 access and pre-trade transparency, or transparency
10 in general. Access without that transparency
11 really can be a barrier to competition. I think
12 the purpose of having open access to these markets
13 is to encourage a variety of competitors to open
14 the market, tighten up the spreads and make a
15 better market for investors. And without the
16 transparency to what's going on, both pre- and
17 post-trade, it really can inhibit some that
18 competition, because it makes it much harder for
19 participants who don't have access to what's going
20 on in a market to really be able to compete on a
21 level playing field.

22 COMMISSIONER O'MALIA: Gary.

1 MR. DeWALL: Just to change direction,
2 I'm still having John's early comments about the
3 IT and some of the requirements, we've sort of
4 moved off target a little bit. Just, again, in
5 the interest of an advisory, there's an
6 interesting obligation here, because whatever the
7 rules that you decide to implement for SEFs and
8 whatever processes go forward, it's interesting
9 that under the Dodd-Frank, and it's provisions
10 repeated for dealers, for major swap participants,
11 it's this whole role of the chief compliance
12 officer, and I just think it's worth noting that
13 at the end of the day, even though even here for
14 SEFs is a contemplation of a senior officer, the
15 contemplation of a chief financial officer, at the
16 end of the day, it's the chief compliance officer
17 of the Dodd-Frank that's required to establish and
18 administer the policies and procedures and is
19 required to ensure compliance of the organization
20 with these policies and procedures.

21 It's an odd obligation, because it's
22 almost making the chief compliance officer a

1 guarantor, and I just hope that when the
2 Commission finally adopts regulations, they keep
3 in mind that hopefully that's not what's intended,
4 that there are other officers that are doing their
5 role, too. Otherwise, it's a pretty tough
6 standard to meet.

7 MR. HARRIS: In fact, that provision
8 would change the way many large financial
9 institutions organize their compliance risk
10 management functions. There are certain
11 compliance obligations that are generally owned by
12 the compliance function. Others are owned by
13 other groups, whether it's finance or treasury or
14 legal. This provision, which seemed to make
15 compliance the owner of all of the compliance
16 obligations of the firm, that's just not the way
17 most large institutions run their business.

18 COMMISSIONER O'MALIA: Any further
19 comments? I think we're going to go to the final
20 panel now, which is Swap Data Repositories. We'll
21 have the new panelists step in, and I'm just going
22 to read quickly who we will have testifying here.

1 And I implore them to keep their presentations
2 sharp and quick.

3 We have Tom Leahy, chief of the Product
4 Review Branch of the Division of Market Oversight.
5 Mr. Leahy is the team lead charged with drafting
6 rule-making associated with the public reporting
7 of swap transaction data on a real-time basis.

8 Next we'll have David Taylor, Special
9 Counsel, Division of Market Oversight here at the
10 Commission. Mr. Taylor is the team lead for the
11 rule-making on swap reporting and record-keeping
12 requirements for swap data repositories, swap
13 execution facilities, DCMs, DCOs, swap dealers and
14 major swap participants.

15 We will have two -- we'll go to Steve
16 Joachim, EVP of Transparency Services from FINRA,
17 can provide us some perspectives on the challenges
18 that are facing the Commission in industry and
19 reporting in the swaps market as a result of his
20 experience with the trace system, and finally, we
21 have two further -- Jiro Okochi, CEO and
22 Co-Founder of Reval, and Pete Axilrod with DTCC,

1 to share their views on the visions of swap data
2 repository in this market and the technology
3 challenges facing the Commission.

4 So we're going to start with the CFTC
5 staff, we'll go to Steve and then Jiro and Peter.
6 So Tom, it's your show. Just keep them quick.

7 MR. LEAHY: Thank you, Commissioner, for
8 this opportunity to discuss real-time public
9 reporting and rule-making. Standard disclaimer,
10 any views expressed are my own, do not necessarily
11 reflect those of the Commission, any commissioner
12 or any commission staff.

13 Section 727 of Dodd-Frank established
14 standards and requirements related to real-time
15 reporting and public availability of swaps
16 transaction data. We, in doing this rule making,
17 are considering various issues and questions and
18 are happy to hear what you have to say either
19 today or during the public comment period, which
20 will be coming up before too long.

21 One of the first questions is who would
22 be responsible for public reporting of swap data.

1 We look at this, and the Act gives us the
2 authority to require registered entities to
3 report. That would be the DCMs, the SEFs and the
4 SDRs. But also registrants, major swap
5 participants and swap dealers.

6 I think one of the others questions we
7 talk about is what is meant by real time. There's
8 a key phrase in the legislation that is
9 technologically practicable. It's not, I don't
10 think, a very well-defined term, but it's
11 something that we need to consider. It may depend
12 on some of the variables with respect to swaps.

13 The next question is what data must be
14 reported, and the legislation says price and
15 volume. But we look at this and we say with
16 swaps, price may not be enough. You need other
17 fields to give context to that price, and we're
18 working on looking at what fields should be
19 required to be reported.

20 And then one other question with respect
21 to real-time reporting is data consolidation.
22 Should be there a consolidator? And if so, whom?

1 Who would that be? And does the Commission have
2 the authority to name somebody or to require
3 somebody to be a consolidator? The legislation is
4 quiet on that issue. Speaking as an economist, I
5 can give you a legal opinion. There's no explicit
6 authority, but there's no prohibition, either.

7 And then the last major piece of
8 Section 727 is block trades and large notional
9 transactions. The big question there is what is a
10 block trade and what is a large notional
11 transaction? We look at blocks as being subject
12 to the rules of a SEF or a DCM. On the other
13 hand, a large notional transaction would be
14 something that is off-facility and is not subject
15 to the rules of a swap or an SEF.

16 So what we need to do is figure out what
17 is an appropriate transaction size, minimum
18 transaction size for a swap. And there, we're
19 looking at different things. The asset class may
20 make a difference, the contract type may make a
21 difference.

22 And then finally, what is an appropriate

1 delay in reporting block trades? The legislation
2 says that delays may be appropriate and we are
3 supposed to consider the effects on liquidity of
4 reporting of blocks. So it's another question
5 that we're trying to answer when we write our
6 proposed rules.

7 So any comments that you-all would have
8 would be certainly welcome and any questions that
9 you may have are certainly welcome. And that's
10 pretty much all I have. Fortunately, it is short.

11 COMMISSIONER O'MALIA: Thank you. Let's
12 just go through the presentations and then we'll
13 come back. I'd like to get everybody, or anybody
14 who has an opinion on what a block trade is or
15 what should be a block and what's left over from
16 any SEF trading would be useful. I know that is a
17 difficult question for us. Dave?

18 MR. TAYLOR: As Commissioner O'Malia
19 said, I'm the leader of the Data Record Keeping
20 and Reporting Requirements rule-making team. I'll
21 give the same disclaimer that Tom did: Any views
22 I express are my own and don't necessarily reflect

1 those of the Commission or any individual
2 commissioner.

3 Very briefly, new Section 21 of the
4 Commodity Exchange Act gives the Commission
5 appropriate authority to establish standards and
6 requirements relating to reporting and record
7 keeping for swaps. We are supposed to prescribe
8 standards that specify the data for each swap that
9 should be collected and maintained by each
10 repository, and to carry that out, we are supposed
11 to prescribe consistent data element standards for
12 registered entities and reporting counterparties.

13 We are going to seek and will welcome
14 comments on all aspects of the data rule making.
15 We intend to have a series of specific
16 comment-soliciting questions in the proposed rule
17 making, but we'll welcome comments on any aspect
18 of it.

19 Very briefly, Commissioner O'Malia asked
20 us to think about what aspects of this rule making
21 might be of interest to the Committee to talk
22 about today. Some people around here have accused

1 me of being the zealot of unique identifiers, and
2 I suppose there's a search truth to that. We've
3 come to believe that using unique identifiers both
4 for the swap itself and for the counterparties for
5 the swap and for what kind of swap is this are
6 going to be crucial to achieving the purposes of
7 the legislation so that it's possible to track all
8 of those things in a reliable way. I'm happy to
9 answer questions or get in a discussion of that.

10 It might also be of interest to all of
11 you to talk a bit about the data standard that
12 could be used. Very briefly, what we're thinking
13 about there is two commandments. One of them is
14 the repository has to be able to give it to us the
15 way we want it and can use it. And then the
16 second commandment would be the repository can ask
17 for the data to come to it in any way it likes, as
18 long as it's capable of fulfilling the first
19 commandment. But we can talk more about that.
20 I'll stop there.

21 COMMISSIONER O'MALIA: You are honoring
22 the short. Steven, let's go with you.

1 MR. JOACHIM: Sure. Thank you,
2 Commissioner O'Malia. Let me just first say that
3 this is the second Technology Advisory Committee
4 I've participated in, and I was honored to sit in
5 the joint round tables we had. And it is
6 interesting to hear some of the comments on TRACE,
7 because many of the industry participants weren't
8 in this room. It was a very long battle to get to
9 what we got to. But it is rewarding to hear that
10 at the end of that, that people feel pretty good
11 about how it turned out.

12 It was probably a three-year process in
13 getting TRACE launched the first time, and I do
14 admire the requirements of the bill in trying to
15 get this done in a very, very short period of
16 time. I think you have some amazing challenges in
17 front of you to bring real-time transparency in a
18 market like this.

19 Let me take you through just briefly
20 what we think of as the -- what I call the TRACE
21 environment, and then talk about how we approached
22 bringing transparency to an opaque environment and

1 some of the issues that we've talked about today.

2 First is that we think of a TRACE
3 environment in really five pieces. The first are
4 the rules. The rules govern pretty much all the
5 operations of how you define what a transaction
6 is, some of the things that participants talk
7 about, which data needs to get reported, when it
8 needs to get reported. It defines who the
9 counterparties are, what their obligations are in
10 terms of the timing and how they'll submit the
11 transactions, who owns the transaction itself,
12 because the mechanism in terms of getting the
13 trade from the counterparty to the point of
14 aggregation could be very different from
15 participant to participant, but you want to have a
16 party who you know owns that obligation and has a
17 legal obligation to ensure that they get the trade
18 to us.

19 So just some of the rules. Defining the
20 rules is probably the most complex part of rolling
21 out any transparency facility. I've used this
22 story a couple of times, but I once had a guy come

1 to me and talk to me about -- one of my people on
2 my team came to me and said we've looked at
3 rolling out corporate bonds and we're in the
4 process of now rolling out asset backed
5 securities, transparency in the bond market today,
6 and the difference between corporates and asset
7 backs is like the difference between French and
8 German. And I asked him what he meant by that,
9 and he said, well, corporates are kind of like
10 German and asset backs are kind of like French.
11 And he said in German, there are a million rules
12 and one exception, and in French there is one rule
13 and a million exceptions. And I think as you face
14 the swap marketplace, I think you're going to find
15 it's much more like asset-backed securities, and
16 maybe it's a million squared in terms of the
17 number of exceptions you're going to have, in
18 terms of the flavors and differences in
19 transactions, and that's why the rules become very
20 critical. The market participants need to know
21 what they have to do. It needs to be with a
22 minimum amount of judgment, and there's always

1 going to be judgment in all these things, but you
2 want to be sure you know what you're getting,
3 because at the end, you need to be able to have
4 comparability of the information. You need to
5 know when you're looking at something, you
6 understand what that is. So a lot of time has to
7 be spent ensuring that those rules of the game are
8 defined very quickly. So that's the first thing.

9 Second thing is that technology needs to
10 be in place. I think you have to think of
11 technology in multiple ways. It's not just the
12 technology that exists at the point of collection
13 and the point of dissemination, but it's also the
14 technology. Adequate technology needs to exist at
15 each of the participant sites to make sure that
16 they can capture through order-management systems
17 the number of utilities that are in place, the
18 number of firms that put utilities in place and
19 tools in place that help people to gather this.
20 But you need to think about that in terms of just
21 the continuity and the speed in which transactions
22 can get reported to you.

1 Third is you need an operating unit.
2 And some of the things we've talked about before,
3 you'll need operations that will manage the
4 process. Everything from, as we've talked before,
5 registering participants, identifying what the
6 participants are. With the number of instruments
7 you have in this marketplace, I guarantee you're
8 going to have a steady stream of new products
9 coming out, and participants are going to need to
10 know how to report them, how they're identified.
11 You're going to have to have a central point
12 that's going to identify those instruments,
13 identify IDs for those instruments and make sure
14 all the participants understand what those
15 instruments are on an ongoing basis. So you need
16 a group that's going to monitor that process.

17 The same thing as new participants come
18 into the marketplace, they're going to want to
19 trade the day they register. So you're going to
20 need to be able to get information account. The
21 counterparties who trade with them will need to
22 know who their counterparties are and how you get

1 those pieces of identification out in the
2 marketplace are going to be critical.

3 The same thing is you're going to need a
4 point of contact for market events that may affect
5 market transparency so that you have a way to
6 communicate those information. So operations is a
7 third element of that.

8 A fourth element is what I call -- which
9 is somewhat connected and somewhat not connected.
10 It's kind of a data-cleaning operation. Tom
11 talked about the difference between when you
12 define a transaction takes place. Is it at the
13 point of clearing, when settlement takes place, or
14 is it the point of execution or when affirmation
15 takes place? We've interpreted for TRACE as the
16 point of affirmation the time when the bargain is
17 consummated and the terms are agreed to. We did
18 that because we believe that we wanted to get the
19 information out in the marketplace as quickly as
20 possible. The closer you do that, the more
21 important it is that you have a data-cleaning
22 exercise, because there's going to be errors that

1 are going to come into the reporting facility.
2 You're going to have trades that are going to look
3 like they're out of line when they should be out
4 of line and sometimes when they're just in error
5 in terms of the reporting mechanism. You need to
6 have some facility that's going to correct it to
7 minimize the chances that you have bad information
8 going through the marketplace. So you need to
9 have a data-cleaning exercise on a real-time
10 basis, but you also then need to be able to have a
11 data-cleaning exercise, which often falls in what
12 we would call our market surveillance areas, where
13 they look back into the marketplace to identify
14 trades that are anomaly transactions. They do it
15 for regulation purposes, but they also do it for
16 data-cleaning exercises, to ensure that people are
17 reporting their transactions on a timely basis.
18 So that's kind of the way you get clean, complete
19 and accurate transactions.

20 Another element of that is you need to
21 ensure all the counterparties are actually
22 reporting. It may seem like it's a very simple

1 thing to just tell everybody they've got to
2 report, but you need some mechanism in place to
3 ensure that all the counterparties actually
4 fulfill their obligations. And we have a robust
5 examination program where we go into the market
6 participants and actually examine their books to
7 ensure that they are reporting their trades. And
8 even in a tight community like the broker-dealer
9 community in the US, where they are easily -- they
10 understand the concepts of rules and are
11 reporting, we found many participants over the
12 years, or some participants over the years, who
13 have missed their obligation. And sometimes it's
14 universal and sometimes it's in a certain
15 proportion of the marketplace, but it happens. It
16 just happens. And you need a mechanism to
17 identify when you don't have all the information,
18 because market participants over time get more and
19 more dependent on this information and depend on
20 the accuracy and completeness of it. So you need
21 to think through all those elements to be sure
22 it's there.

1 The last piece is you need some kind of
2 an enforcement arm that's going to enforce all
3 these rule and ensure that when there are
4 violations, that there are consequences that
5 provide incentives and the stick-and-the-carrot
6 kind of exercise to ensure that all those take
7 place.

8 That's the TRACE environment as we think
9 of it. It's not just simply the technology put in
10 place to make transparency take place, happen, but
11 it is all of those other elements that really
12 compose the environment we talk about.

13 In terms of the way we approach the
14 business is we looked at this and recognized that
15 this was a marketplace that did not have a lot of
16 automation when we started. There was some places
17 and some pockets where it was the bigger firms had
18 a significant amount of automation, but there was
19 a need to put automation in place in a lot of the
20 other firms who were participants to be sure they
21 could capture and report transactions on time. So
22 we staged reporting requirements, first from a

1 reporting time frame. We initially started at
2 75-minute reporting and then phased in our time
3 frame, so over time, giving market participants
4 time to make adjustments, we shortened the time
5 frame to what we considered then 15-minute
6 reporting as being real time.

7 Our rules were written so that we said
8 that you had an obligation as a participant to
9 report the trade as soon as practicable but no
10 later than 15 minutes. So in fact, almost
11 90 percent of our transactions came to us in less
12 than five minutes. Early on, it was probably
13 75 percent of our transactions that came to us in
14 less than five minutes, even though we were
15 talking about 75-minute reporting. So people had
16 an obligation to get those trades to us relatively
17 quickly, but we gave them the opportunity to build
18 in their automation time to do that.

19 The second thing we did was we looked at
20 phasing in terms of dissemination. We collected
21 100 percent of transactions on day one, and we did
22 that partially because, I would say, now

1 experienced with our third market of doing this,
2 is that conventional wisdom and forecasts of what
3 the size, scope, activity level, the breadth of
4 participation in each market we faced has been
5 wrong. What I mean by conventional wisdom, I
6 don't mean anybody deliberately or intentionally
7 would mislead us, but people see when there's no
8 central clearing house information, they see what
9 they do. They don't see the broad marketplace,
10 and one value of getting all the trades in one
11 place at one time is it eliminates guessing. You
12 know what happens. And as the central point of
13 collection, it gave us an ability to phase in the
14 transparency side of the business in a way that
15 minimized disruption of the marketplace. And we
16 did it in phases starting with the most liquid
17 part of the marketplace to the least liquid
18 marketplace, giving the marketplace time to
19 adjust, but also giving us time to look and
20 understand the marketplace in a way that we could
21 analyze. We brought in some academic teams and
22 economists to come in and help us analyze what we

1 thought the impact was at each stage. We actually
2 organized some experiments to see what the impact
3 would be in the places where there was less
4 liquidity to be sure we understood what we were
5 doing as we took steps in terms of improving,
6 enhancing transparency, that we can measure that
7 impact and really get our arms around whether we
8 would have any negative impact, because the
9 industry was forecasting that we -- what some
10 people talked about was that we would dramatically
11 dry up the liquidity in the marketplace. So we
12 phased in each of these processes to give us time
13 to do it. Took us about a two-and-a-half year
14 process to cover the entire marketplace over all.

15 The other thing we did is we listened
16 very carefully to participants, both buy side and
17 sell side -- then I'll finish, because I know I'm
18 going too long. As we looked at buy side and sell
19 side and we talked to them very actively in the
20 marketplace to understand where their concerns
21 were. And as we're talking about the block
22 exception, the one place that we did hear concerns

1 from both buy side and sell side was that
2 liquidity would dry up in the largest pieces in
3 the marketplace. Our answer to that, after going
4 that many discussions, was when we disseminate
5 transactions, we would cap the size of the largest
6 trades, and that was done primarily because
7 universally, people felt that over a certain size,
8 it wasn't important to know the difference between
9 whether the trade was a \$25 million trade or a
10 \$50 million trade. I just needed to know it was a
11 large transaction in the marketplace. Give me the
12 price and tell me it was a large trade. That's
13 what we needed. So we created a set of caps that
14 were developed before the launch of TRACE, before
15 we sold this data together, that basically said
16 for investment grade bonds, we capped them at
17 \$5 million, and when we disseminated the price, we
18 said it was five-million plus. If it was a
19 high-yield bond, we disseminated it as one-million
20 plus if it was over a million dollars.

21 That information has -- those caps have
22 been consistent. We've had very few complaints or

1 concerns about that from either buy side or sell
2 side since that time. But we have looked at that
3 periodically and visited whether those caps could
4 be increased. And it is possible as we go forward
5 that we will modify those caps in terms of the
6 size of the transactions that we actually
7 disseminate in the marketplace, but we'll do that
8 in a very informed basis.

9 So those are the key elements. I could
10 probably talk for another two hours if you wanted
11 me to, but key things in terms of just lessons
12 learned in our approach as we took from TRACE.

13 COMMISSIONER O'MALIA: We'll reserve a
14 room over here and you can spend the next two
15 hours if you'd like. Jiro?

16 MR. OKOCHI: Mr. Commissioner,
17 Commissioner O'Malia, Commissioner Sommers,
18 Commissioner Dunn, Chairman Gensler, thank you for
19 allowing me to speak to the panel today. Just a
20 little bit of background on Reval. I started
21 Reval about eleven years ago after selling
22 derivatives. Came over from that side of the

1 fence, seeing an opportunity to leverage the
2 internet technology to help end users book their
3 derivatives, find out what these prices really are
4 independently, and then comply with all the
5 regulatory standards around FASB 133, et cetera.

6 We, in my opinion, are a walking SDR and
7 plan on registering to become an SDR, so I'm happy
8 to be here today to talk to you a little bit about
9 my thoughts on that. I think given the time frame
10 is short, I'll go through the eight rules of what
11 an SDR should do in sort of a David Letterman
12 style top ten, top eight list.

13 So the first rule is accept data. I
14 think going to Mr. Taylor's recommendation of
15 Commandment 2, the SDR should take any form of
16 data. So I think there's been a lot of discussion
17 of should there be a standard FpML, XML, what have
18 you. We take data, a CSV file, FpML, our own XML,
19 or the user can enter in through the browser. The
20 many key terms of a derivative to get the price of
21 the derivative. So I think any SDR registering
22 should be able to take any of the data. Let's

1 worry about getting the uniform standard down the
2 road. I think we have bigger fish to fry.

3 The second rule is, or duty is to
4 confirm the trade. My understanding, it's not to
5 confirm that the two trades, the two
6 counterparties in the trade match and confirm the
7 details, but the trade details the SDR receives
8 are, in fact, accurate. So if that is the case, I
9 think the onus may need to be put more so on the
10 dealer submitting the trade. I would advise that
11 you make sure that the dealer uses electronic
12 connections as much as possible. Any trade,
13 exception, handling, to be done electronically so
14 if there's any miskeying of the data on the
15 dealer's end, it's captured. But it would be very
16 difficult for the SDR to go in, look at an instant
17 confirm, look at the trade and receive -- to make
18 sure that the details are correct. Unless you got
19 trade details from both the end user or the other
20 counterparty in the swap dealer, which is not part
21 of the statute.

22 Number three is maintaining the life

1 cycle of the trades. I think very different from
2 securities, from even CDS, these derivatives,
3 without even amending the trade, have their own
4 life cycle. Live boards reset, things happen, new
5 holidays are up to when the queen has her 100th
6 birthday pretty soon, we're going to have to have
7 a new holiday calendar for that. So I think all
8 of these things, the SDR is going to have to
9 really maintain the moving parts to the life cycle
10 of these over-the-counter derivatives, and every
11 piece can affect, ultimately, the NVP of the price
12 of the derivative or the future price of that
13 derivative depending on what is happening in the
14 marketplace.

15 Number four is to provide on-demand
16 access so all the different regulators, both here
17 and overseas, have to be able to access this
18 information. We are a true software service
19 company delivering our reporting over the
20 internet, so anyone with a proper access security,
21 et cetera, could access our data. I would
22 recommend that any SDR have some form of

1 web-friendly access to get to that data. It's
2 obviously very important for the Commission to be
3 able to take this data and analyze it. An SDR can
4 give you all the data you want, but if you can't
5 really look at the risk within that data, we don't
6 even know today what the total notional
7 outstanding really is. We get the BIS numbers,
8 but we really don't know. We don't know what
9 end-user positions really are out there. People
10 aren't counting every single FX4 transaction, for
11 example.

12 So I think ultimately, the SDR has to be
13 able to take all of this data, and then,
14 Commandment No. 1, give it back to the Commission
15 in a friendly form. We would envision alerts,
16 user-friendly reports that any staff member could
17 get in terms of net-position movements, changes in
18 volume, whether it's aggregated public or whether
19 it's confidential and for your eyes only.

20 Also on the reporting side, stress
21 testing was mentioned earlier, MPV was mentioned.
22 It's not just about what is the value of the

1 derivatives today. What happens if the Euro goes
2 to 150 or oil goes back to 140? I think the
3 Commission needs to understand what the future
4 risk is within the system, not just there's a
5 default today, what's the net impact of the system
6 today.

7 Obviously, the SDR has the duty to keep
8 all the data confidential and secure, so all of
9 our employees sign NDAs, we do background checks,
10 so I think that part of the reform should be easy
11 for any SDR to properly comply, so long as they do
12 have the proper controls and govern it, so one of
13 the rules would be to have the Chief Compliance
14 Officer responsible for compliance, and I think
15 for SEFs, maybe it is a different situation where
16 the compliance officer couldn't keep track of
17 everything, but for an SDR, I think it does make
18 sense for that ownership to be housed within
19 compliance of the standard.

20 And then, of course, the SDR would have
21 to have all the proper backup facilities, disaster
22 recovery, access to that information when the

1 Commission needs it. So those are the eight basic
2 obligations that the SDR has.

3 What I'd like to quickly talk about is
4 some of the concerns I have about what we're
5 seeing in terms of what an SDR may be responsible
6 for. I think the biggest concern would be the
7 time frame. So my understanding of the time frame
8 of when an SDR has to turn on the switch and go
9 live would be around the fall of 2011. So if the
10 rules are issued in, say, February, it would
11 basically give you six months to go live.

12 So I think there are obviously
13 mechanical concerns with the SDR being able to
14 book all the trades and do all the reporting that
15 the Commission needs, but if you think about
16 180 swap dealers having to interface to one or
17 more SDRs, you're going to have a lot of -- good
18 news is you'll probably have a lot of job creation
19 for the economy, but it will be a monumental task.

20 If you speak to derivative dealers when
21 they're implementing a new trading system and
22 maybe they have a couple hundred-thousand trades,

1 it can take two years to implement a trading
2 system. So 180 swap dealers times five asset
3 classes, that's a lot of implementation work to be
4 had.

5 And on that note, I think the more you
6 try and change the requirements for swap dealers,
7 the more challenging it will be. So if there's
8 going to be a unified, unique identifier, every
9 single swap dealer has to change their data base
10 to comply. Again, it will be possible, but can it
11 be possible within the time frames?

12 And similarly, if there's a standard for
13 the data, if everyone is required to define, claim
14 a no-interest rate swap with this XML, again,
15 everyone would have to change their systems and
16 interface to the SDR. So that's a top concern I
17 think I have for everyone.

18 I guess the second concern I have would
19 be competition. We're in favor of as many SDRs
20 for registering, and hopefully whatever the rules
21 are, they qualify and there's competition. I
22 think it shouldn't be the utility model.

1 Ultimately, I think all of us around the table,
2 our hopes are -- and I think I speak for the
3 Commission, that derivatives volumes don't shrink
4 for the wrong reason or move offshore. So we need
5 to keep these costs as low as possible for swap
6 dealers so they don't pass them on to end users
7 and kill the market or the market goes to
8 Singapore where there may not be an SDR
9 requirement. So the more competition you have,
10 pretty obvious you should have better pricing
11 capabilities.

12 So my concerns would be to make sure
13 that there's fair competition, so I think the
14 topic of conflict of interest is really around to
15 making sure that if there are any number of SDRs
16 allowed, that they each have an equal right to
17 gain access to the marketplace by showing good
18 technology and proper service, low pricing, and
19 the ability to be motivated to continue to improve
20 their services to make sure as the market changes,
21 we provide that service to both the swap dealers
22 and the Commission. Thank you.

1 COMMISSIONER O'MALIA: Thank you, Jiro.

2 Peter, you get the last word.

3 MR. AXILROD: Thank you. I think people
4 can read my slide deck. It's fairly
5 self-explanatory. I'm not going to go through it.
6 What I did want to do to is address what appeared
7 to be the 800-pound gorilla in the room that I
8 think is an extraordinarily difficult and naughty
9 problem, particularly from a technology point of
10 view, and that is aggregation.

11 It's been raised continuously throughout
12 the day that it's something that's needed. It's
13 been a question, sort of how are you going to get
14 it. I'm not going to propose an answer or
15 recommend an answer unless pressed.

16 I do think that there is also a
17 corollary to aggregation, which is how to assure
18 that the regulators, they are pleural, but we're
19 dealing with the Commission, get complete,
20 appropriately granular and accurate information.
21 In other words, they get all and only the
22 information they need to get to fulfill their

1 mission. And that's sort of what I call an
2 inventory-control problem.

3 I guess in the course of the last four
4 years when we developed our trade information
5 warehouse for credit derivatives -- and I realize
6 different asset classes had different problems and
7 one size may not fit all, so to the extent that
8 lessons can be drawn from the credit derivative
9 market, we might be able to provide a little
10 experience and inform this discussion, but
11 essentially, we've had to deal with both
12 aggregation and sort of inventory control issues
13 in the course of development over the last four
14 years, and in particularly difficult political
15 circumstances.

16 So when we started this in 2006, it was
17 with an industry group and with the cooperation of
18 the OTC derivative supervisor's group that was
19 then chaired by Secretary Geithner. The first
20 thing that the industry had to grapple with is how
21 do you avoid double counting. How do you avoid --
22 they are very arcane things. How do you avoid

1 amending the same contract in two inconsistent
2 ways, so forth and so on, and having that recorded
3 in a way that didn't make any sense.

4 What we discovered was that the things
5 that you might look at for precedence, Central
6 Securities depositories or DCOs, you know, listed
7 derivatives clearers, didn't provide good answers
8 to these questions. So the industry had to come
9 up with its own method of inventory control. I'm
10 happy to share the technical specs with the
11 Commission if you want. It's not secret, but it
12 was a unique solution.

13 This sort of got exacerbated I think a
14 couple of years ago when the European Commission
15 had a series of industry meetings dealing with the
16 subject of how it would address -- and these were
17 fact-finding meetings -- how it would address the
18 OTC derivatives markets in general, and the credit
19 derivatives markets in particular. And they were
20 focused both on CCPs and repositories, and there
21 was particularly an issue of should there be a
22 European repository for credit derivatives. And

1 we went through really in great detail as a group
2 collectively all of the inventory control issues
3 with then Eddie Winemear, Cesar and Mary Onaba
4 (phonetic), who's also left but been replaced by
5 Patrick Pearson. And the issues are the same.
6 You have cross-border trading. Where do they get
7 reported? Both repositories? Then how do you
8 avoid double-counting? What about situations
9 where there's foreign trading on domestic
10 underlines? A large part of the credit derivative
11 market and all OTC derivative markets involve US
12 trading of EU underlines, EU tradings of US
13 underlines, Asian trading of both. Again, how do
14 you gather all that information in one place and
15 make sure that the regulators who have an interest
16 in seeing that information get to see it in a
17 useful way? And really, even in that atmosphere,
18 the solution that seems to be evolving in Europe
19 is that there shouldn't be a separate European
20 repository, but there should be a complete
21 duplicate of a global repository just happening to
22 be located in Europe to assure that European

1 authorities have access to it. I think that was
2 particularly motivated by, if I may provide an
3 editorial comment on Dodd-Frank, the unfortunate
4 indemnity language in Dodd-Frank, which sort of
5 has pushed them to say I need to get this
6 information over into Europe and regulate it in
7 Europe.

8 So that was the solution, and the OTC
9 derivatives regulators forum, which is
10 44 regulators worldwide, they don't have any
11 statutory authority, but this Commission and
12 others participate in it, gave us a set of advice
13 that we published, which basically said here's
14 some guidance that we've all agreed on -- it was
15 signed by all 44 -- saying this is who ought to
16 see what data.

17 In a cinch, if I can summarize the rule,
18 if your regulatory mission touches either one of
19 the counterparties or the underlying, you get to
20 see the data. And we are -- with the Hellenic
21 capital markets commission, for instance, we
22 essentially gave them all the trades on Greek

1 underlines, regardless of where they were
2 executed.

3 The only way to make sure -- I don't
4 want to say the only way to make sure, but the
5 problem that you to solve is how do you make sure
6 that you get -- the domestic regulators get all
7 the relevant non-domestic trading of the
8 underlines that they want to get, and how do you
9 get that in a timely manner? So if your
10 regulatory purpose is to look at position limits,
11 to look at maybe undue build-ups of open interest,
12 to look at market manipulation, you're going to
13 need the off-shore trading at the same time that
14 you see the on-shore trading.

15 So the problem that you need to solve is
16 all that information has to come to one place, and
17 then that one place has to sort of decide who gets
18 to see what in accordance with the rules that
19 everybody has agreed on, and that's just a naughty
20 problem. It happens to have been -- at least the
21 expedient that the regulators have taken up so far
22 in the credit derivatives market was to have sort

1 of a utility that was recognized by many
2 regulators that followed the guidelines that were
3 put out by the OTC derivatives regulators forum.

4 Anyway, I'll leave everything there. I
5 think aggregation really is the elephant in the
6 room, and it's very, very difficult and naughty to
7 deal with.

8 COMMISSIONER O'MALIA: Thank you very
9 much. Let me point out it is a little after 5:00.
10 Does anybody have a question? Well, I want to
11 thank everyone for their attention, participation
12 and for the presentations we've had today. The
13 CFTC staff in addition to putting rule-makings
14 together has put together presentations for our
15 benefit, and I appreciate that. I appreciate all
16 the staff that have done that. I appreciate all
17 the participants here that have contribute as
18 well. And I think we'll have to obviously come
19 back to the swap data repository. There's many
20 other items in the technology fold that we're
21 going to explore, and we'll be looking at another
22 meeting probably early next year. We'll have to

1 calibrate that with where the rule-makings are,
2 et cetera. So any thoughts or inputs you-all have
3 on new topics, issues, et cetera, we'd be happy to
4 review them and talk to you about them.

5 But let me just thank you all very much,
6 thank my fellow commissioners, and before we
7 leave, I'd like to see if anybody else has a final
8 comment.

9 CHAIRMAN GENSLER: I was just going to
10 thank Commissioner O'Malia for chairing this, for
11 hosting a very helpful discussion, my fellow
12 commissioners. And not just thanking you, but
13 also ask you if you have thoughts before we put
14 out rules, after we put out rules, all the way
15 through the final rules and probably even after
16 the final rules, we want to hear them. This is a
17 very significant market. It's critical for end
18 users and hedgers and investors throughout this
19 country, and we want to promote transparency and
20 get it right, but we need your advice.

21 COMMISSIONER DUNN: I'd just echo the
22 Chairman's remarks here and thank you very much,

1 Scott. This has really been -- every time I think
2 I've got my arm around it, I have a meeting like
3 this and I say oh, my goodness.

4 COMMISSIONER SOMMERS: Thanks to
5 everybody for being here. Thank you to you and
6 your staff.

7 COMMISSIONER O'MALIA: Commissioner
8 Chilton?

9 COMMISSIONER CHILTON: Thank you,
10 Commissioner O'Malia, and your staff and for all
11 the members of the Advisory Committee for being
12 there.

13 I guess the only thing I'd say is
14 congress gave us instructions on real-time
15 reporting and data collection like we were talking
16 about, just like they gave us these instructions
17 and deadlines to implement the rest of the new
18 law. The new law. So none of this is a surprise
19 that we're coming out with some crazy regulation
20 that one day is going to fall out of the sky and
21 catch people completely unknown.

22 You know, folks who are going to be

1 nimble and quick are able to compete and get a
2 competitive advantage. So a lot of folks, and
3 we've had some comments here today, but I've met
4 with a lot of people who think the task is too big
5 or it's too complicated, or they want
6 implementation delayed a year or they want
7 exemptions just for themselves from the bill.

8 You know, I can't speak for my
9 colleagues, but just because this is challenging
10 and monumental doesn't mean it's impossible. The
11 Chairman's done a great job of putting us on a
12 strong, solid course for going forward, and I'm
13 convinced we're going to get this done and we're
14 going to get it done on time. Thanks, Scott.

15 COMMISSIONER O'MALIA: Anyone else?
16 Final comment? Thank you very much for coming.

17 (Whereupon, the above-included matter
18 was concluded at 5:09 p.m., this date.)

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1 UNITED STATES OF AMERICA)

2 STATE OF MARYLAND)

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4 I, EMILY BOYD, the reporter before whom the
5 foregoing proceedings were taken, do hereby certify
6 that foregoing transcript is a true record of the
7 testimony given by said witness.

8 I further certify that I am neither counsel
9 for, related to, nor employed by any of the
10 parties to the action in which this deposition was
11 taken; and further that I am not a relative or
12 employee of any attorney or counsel employed by
13 the parties hereto, or financially or otherwise
14 interested in the outcome of this action.

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Emily Boyd

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22 My Commission expires January 17, 2014