



## **National Futures Association**

cordially invites you to  
the annual dinner for the  
**International Regulators**

Monday, March 13, 2017  
Cocktails at 6:30 pm  
Dinner at 7:00 pm

501 East Kitchen & Bar  
(on the terrace)  
at the  
Boca Raton Resort and Club  
Boca Raton, Florida

R.S.V.P. by March 2nd  
+1 312-781-7860  
[Kscaletta@nfa.futures.org](mailto:Kscaletta@nfa.futures.org)





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## Boca 2017 Program

Tuesday, March 14, 2017

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🕒 8:00 am

[Exchange Chairmen and Presidents Breakfast \(Invitation Only\)](#)

[\(/program/1704/2001\)](/program/1704/2001)

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🕒 8:30 am - 5:00 pm

[CFTC International Regulators Meeting \(Day-long meeting, invitation only\)](#)

[\(/program/1704/2002\)](/program/1704/2002)

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🕒 9:00 am

[Registration Opens](#)

[\(/program/1704/2004\)](/program/1704/2004)

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🕒 9:00 am

[Exhibits Open](#)

[\(/program/1704/2005\)](/program/1704/2005)

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🕒 9:00 am

[FIA Boca Tennis Tournament benefiting Futures for Kids](#)

[\(/program/1704/2267\)](/program/1704/2267)

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🕒 12:00 pm

[DTCC Welcome Hospitality 2017](#)

[\(/program/1704/2007\)](/program/1704/2007)

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🕒 1:00 pm

**FIA Annual Meeting** (</program/1704/2268>)

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🕒 1:25 pm

**InformationXchange: Eurex** (</program/1704/2006>)

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🕒 2:20 pm

**InformationXchange: Intercontinental Exchange** (</program/1704/2269>)

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🕒 3:15 pm

**InformationXchange: CME Group** (</program/1704/2270>)

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🕒 4:00 pm

**Opening Remarks** (</program/1704/2008>)

📺 MEDIA:

Please log in to listen (</user/login?destination=program/1704>)

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🕒 4:30 pm

**Taking Stock - An Industry at the Crossroads** (</program/1704/2009>)

📺 MEDIA:

Please log in to listen (</user/login?destination=program/1704>)

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🕒 5:30 pm

**Welcome Cocktail Hour** (</program/1704/2010>)


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🕒 6:30 pm

 6:00 pm


[Opening Reception](/program/1704/2012) (/program/1704/2012)

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 6:30 pm

[Exhibits Close](/program/1704/2289) (/program/1704/2289)

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 9:00 pm

[Around the World with Nasdaq](/program/1704/2013) (/program/1704/2013)

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## Wednesday, March 15, 2017

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 7:30 am

[Registration Opens](/program/1704/2014) (/program/1704/2014)

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 8:00 am

[ICE Energy Breakfast](/program/1704/2015) (/program/1704/2015)

 **MEDIA:**


Please log in to listen (/user/login?destination=program/1704)

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 9:00 am


[Exhibits Open](/program/1704/2016) (/program/1704/2016)

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 9:00 am

[Eurex Café Opens](/program/1704/2027) (/program/1704/2027)

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 9:20 am

[CFTC Keynote Address: Acting Chairman J. Christopher Giancarlo](/program/1704/2025)  
(/program/1704/2025)

 **MEDIA:**

Please log in to listen (/user/login?destination=program/1704)

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🕒 10:00 am

**One-on-one Interview Featuring Digital Asset Holdings CEO  
Blythe Masters** (</program/1704/2019>)

📺 MEDIA:

Please log in to listen (</user/login?destination=program/1704>)

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🕒 10:30 am

**Eurex Café Networking Break** (</program/1704/2017>)

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🕒 11:00 am

**Exchange Leaders – Mapping out the Future of Markets**

(</program/1704/2272>)

📺 MEDIA:

Please log in to listen (</user/login?destination=program/1704>)

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🕒 12:15 pm

**NEX Group Power Lunch featuring David Cameron**

(</program/1704/2018>)

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🕒 2:15 pm

**Smart Regulation** (</program/1704/2275>)

📺 MEDIA:

Please log in to listen (/user/login?destination=program/1704)

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🕒 2:15 pm



[Silicon Valley Meets Wall Street](/program/1704/2273) (/program/1704/2273)

📺 MEDIA:

Please log in to listen (/user/login?destination=program/1704)

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🕒 3:30 pm

[Eurex Café Networking Break](/program/1704/2276) (/program/1704/2276)

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🕒 4:00 pm



[Time for a New Commodities Supercycle?](/program/1704/2277) (/program/1704/2277)

📺 MEDIA:

Please log in to listen (/user/login?destination=program/1704)

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🕒 4:00 pm




[The Relationship Between Regulation and Technology](#)

[\(/program/1704/2278\)](/program/1704/2278)

 **MEDIA:**

Please log in to listen (</user/login?destination=program/1704>)

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 4:30 pm

**Exhibits Close** (</program/1704/2020>)

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 6:30 pm

**Boca Nite Out** (</program/1704/2021>)

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## Thursday, March 16, 2017

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 7:00 am


**FIA Tech Fun Run** (</program/1704/2279>)

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 7:30 am

**Registration Opens** (</program/1704/2022>)

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 8:00 am

**Hall of Fame Breakfast** (</program/1704/2023>)

 **MEDIA:**

Please log in to listen (</user/login?destination=program/1704>)

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 9:00 am

**Exhibits Open** (</program/1704/2280>)

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 9:00 am



**Keynote Address: Senator David Perdue** (</program/1704/2281>)

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🕒 9:00 am

**Eurex Café Opens** (</program/1704/2282>)

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🕒 9:30 am

**Clearing - The Way Ahead** (</program/1704/2283>)**📺 MEDIA:**Please log in to listen (</user/login?destination=program/1704>)

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🕒 10:45 am

**Eurex Café Networking Break** (</program/1704/2284>)

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🕒 11:15 am

**In Search of Liquidity** (</program/1704/2285>)**📺 MEDIA:**Please log in to listen (</user/login?destination=program/1704>)

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🕒 12:30 pm

**International Exchanges Networking Lunch** (</program/1704/2026>)

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🕒 1:30 pm

**CCP Risk – Where Are We Now?** (</program/1704/2286>)

**MEDIA:**

Please log in to listen (</user/login?destination=program/1704>)

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🕒 2:30 pm

**[Eurex Café Networking Break](/program/1704/2287)**

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🕒 2:50 pm

**[Closing Remarks](/program/1704/2029)**

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🕒 3:00 pm

**[Washington Outlook](/program/1704/2288)**

**MEDIA:**

Please log in to listen (</user/login?destination=program/1704>)

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🕒 3:15 pm

**[Exhibits Close](/program/1704/2028)**

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🕒 5:00 pm

**[Closing Reception](/program/1704/2030)**

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## Friday, March 17, 2017

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🕒 7:30 am

**[3rd Annual FIA Charity Golf Event Benefiting Futures For Kids](/program/1704/2031)**

[\(/program/1704/2031\)](/program/1704/2031)



## CFTC INTERNATIONAL REGULATORS MEETING

Boca Raton Resort – Addison Ballroom

Boca Raton, Florida

March 14, 2017

8:15 REGISTRATION

8:30 WELCOME – Eric J. Pan, Director, Office of International Affairs, CFTC

8:45 TOPIC ONE: DATA – HOW TO COLLECT IT, SHARE IT AND READ IT

The use of “data” is constantly being discussed in regulatory circles. This panel will review what data regulators collect and how they use such data.

Moderator Eric J. Pan – Director, Office of International Affairs, CFTC

Panelists Srinivas Bangarbale – Chief Data Officer, Office of Data and Technology, CFTC

Daniel J. Bucsa – Deputy Director, Division of Market Oversight, CFTC

Kevin Fine – Director, Derivatives Branch, Ontario Securities Commission

François Laurent – Principal Adviser, DG Market Infrastructure and Payments, European Central Bank

Polly Lee – Senior Manager, Financial Stability Surveillance Division, Hong Kong Monetary Authority

10:00 REMARKS BY CFTC COMMISSIONER SHARON Y. BOWEN

10:30 BREAK

11:00 TOPIC TWO: FINTECH AND ITS IMPLICATIONS ON THE INDUSTRY AND REGULATORS

Regulators and industry will discuss the initiation and implementation of new technologies, new issues posed by fintech, regulatory approaches and oversight, uses of labs and sandboxes, and potential obstacles or regulatory challenges to innovation.

Moderator Maggie Sklar – Associate Director, Office of International Affairs, CFTC

Panelists Jeffery Bandman – FinTech Advisor, CFTC

Matthew B. Kulkin – Partner, Steptoe & Johnson LLP

Rumi Morales – Executive Director and Head, CME Ventures LLC

Yao Loong Ng – Executive Director, Markets Policy & Infrastructure Department, Monetary Authority of Singapore

Jennifer Peve – Executive Director of FinTech Strategy, Depository Trust Clearing Corporation

Haimera Workie – Senior Director, Office of Emerging Regulatory Issues, Financial Industry Regulatory Authority

12:15 LUNCH BREAK

1:15 TRENDS IN SWAPS DATA – A MACRO VIEW OF CFTC DATA AND TRENDS – SAYEE SRINIVASAN, CHIEF ECONOMIST, CFTC

2:00 REMARKS BY CFTC ACTING CHAIRMAN J. CHRISTOPHER GIANCARLO

2:30 TOPIC THREE: CYBER ATTACK SCENARIO

The panelists will work through a cyber-attack scenario focusing on how to react, recover and respond to such an attack.

Moderator Kevin C. Piccoli – Deputy Director, Office of International Affairs, CFTC

Panelists John W. Carlson – Chief of Staff, Financial Services – ISAC

Anthony Dewell – Global Head of Investor Products, Agriculture Products, and North America Oil Products Trading, Goldman Sachs & Co.

Julie Holzrichter – Chief Operating Officer, CME Group

Bethany Netzel – Executive Director, Global Security and Business Continuity Management, CME Group

Lawrence Zelvin – Global Head, Cyber Security, Information Protection Directorate, Enterprise Operations and Technology, Citigroup

3:45 CONCLUSION OF INTERNATIONAL REGULATORS MEETING – Eric J. Pan, Director, Office of International Affairs, CFTC

## **CFTC International Regulators Meeting Cyber Attack Exercise – Participant Material**

March 14, 2017

### **Objective**

1. Examine communication and coordination processes involved among stakeholder groups (e.g., clients, trading partners, regulatory bodies), including international partners, and concerns with regards to interruption and resumption of oil and gas derivatives trading in the wake of a destructive malware attack against multiple entities within the futures/derivatives market.
2. Discuss communication and coordination roles in this type of event.
3. Discuss the role of the exchanges and intermediaries in notifying CFTC/international regulators of the operational and business process decision-making in the event of a cybersecurity attack against the oil and gas trading platforms in the futures/derivatives market.

### **Scenario**

Malevolent actors perpetrate a cyberattack against energy trading platforms, resulting in major cascading effects to numerous financial institutions and potential large scale economic consequences for the global financial system.

### **The Players**

The exercise consists of five main actors/players:

#### **Institution A:**

##### **Pandora Exchange Group (Pandex)**

The Pandora Exchange Group, or Pandex, is an American network of futures exchanges and clearing houses for financial and commodity markets. Pandex owns 23 regulated exchanges and marketplaces; including futures exchanges in the US, Canada and Europe, equity exchanges in the US, Equity options exchanges, OTC energy, credit and equity markets. Pandex also owns and operates central clearing houses in Europe and Canada, with offices in New York, London, Chicago, Houston, Winnipeg, Amsterdam, Calgary, Washington, D.C., San Francisco and Singapore.

#### **Institution B:**

##### **Metropole Commodities Exchange (MCE)**

Metropole Commodities Exchange, or MCE, is an American futures company and one of the largest options and futures exchanges globally – handling billions of contracts annually worth hundreds of trillions of dollars. The company is a marketplace for buyers and sellers – bringing together individuals, companies and institutions that need to manage risk or that want to profit by accepting risk. MCE owns and operates large derivatives and futures exchanges in Chicago and New York City, as well as online trading platforms. It also operates a derivatives exchange in London. Additionally MCE owns several financial indices and clearing services, which provide settlement and clearing of exchange trades. The exchange-traded derivative contracts include

futures and options based on interest rates, equity indexes, foreign exchange, energy (e.g., oil and gas), agricultural commodities, rare and precious metals, weather, and real estate.

#### **Institution C:**

##### Cibola Securities Inc.

Cibola Securities Inc. is registered as a broker dealer/futures commission merchant (FCM), providing liquidity and trade execution to retail and institutional clients. The company is one of the top ten members of Pandex and MCE for execution and/or clearing services for energy contracts traded on the two exchanges. Cibola's clients are institutions, energy companies, and proprietary trading firms, offering direct market access to some of its clients. Cibola offers its clients execution services on other energy and commodity markets directly, or through its affiliates or regional brokers.

#### **Institution D:**

##### Vault Door Investments

Vault Door Investments is a proprietary trading firm with a focus on technology and, specifically, algorithmic and high-frequency trading strategies. The firm has hundreds of employees in the futures, options and equities markets in New York, Chicago, London and Rome. The company is a member of the Principal Traders Group, an advisory group formed by the Futures Industry Association (FIA) to represent principal traders (i.e. independent proprietary trading firms that trade only on their own accounts)

#### **Institution E:**

##### GSC Energy

Headquartered in Houston, Texas, GSC Energy is a 65,000 employee oil and gas production firm with operations across the globe. The company currently produces some 2.5 million barrels of oil per day, and has made significant investments in coal, natural gas, and renewable energy operations. In addition to energy production, refining, distribution, wholesale and retail sales, GSC Energy maintains an oil and gas futures trading desk. This group engages in energy-related hedging transactions on both the Pandex and MCE platforms.

### Exercise Scenario - Situational Update & Discussion Questions

#### **Part One**

Friday, March 3

- At 10:07 am EDT, oil and gas trading platforms at both the Pandora Exchange Group (Pandex) and the Metropole Commodities Exchange (MCE) become inaccessible to traders across the globe.
- A short time later, the CISO of the Pandex notifies C-level officials in his organization that a piece of malware, possibly targeting the matching engine for the energy trading, appears to have embedded itself in the Pandex network and is responsible for the outage.

- While clearing and settlement operations appear to be unaffected at the moment, as well as all other trading platforms, recovery measures, including attempts to activate backup systems, are proving unsuccessful in restoring functionality to the trading platforms.
- The IT professionals at both Pandex and MCE are communicating and working to determine the exact nature of the infection, along with best measures for mitigation.
- At roughly the same time, the MCE security operations center manager notifies the CISO that she believes that the company has fallen victim to a sophisticated spear phishing campaign utilizing infected pdf documents targeting several of the institution's line managers. At least one of these infected files made a website call and downloaded a piece of malware onto the MCE network.
- As this situation unfolds, traders at both Cibola Securities and Vault Door Investments notify their management that they are currently unable to conduct any oil and gas transactions via either the Pandex or MCE platforms.
- At 10:30 am, the SVP of Trading Operations at GSC Energy notifies the company's CEO and COO that the company's trading operations have ceased due to the inaccessibility of both the Pandex and MCE trading platforms.
- Pandex, MCE, and a number of other market participants, have reached out to notify the CFTC about these issues.
- Reacting to notifications from these and other members, both NFA and FS-ISAC alert their respective memberships to the oil and gas platform outage and continue working to keep them informed as the situation develops.

## **Discussion of the Event by Panelists**

### **Part Two**

Friday, March 3

- At 11:15 am EDT, news networks across the globe begin reporting on what appears to be a coordinated terrorist attack against numerous Very Large Crude Carriers and Ultra Large Crude Carriers in the Red Sea, Gulf of Aden, and Indian Ocean.
- Current crude oil losses are estimated in the neighborhood of 12 million barrels.
- At least two terrorist groups are claiming responsibility for the attacks and are promising more in the coming hours and days.
- At 1:30 EDT, MCE and Pandex issue press releases stating that their trading platforms are still inoperable due to the malware attack. Regulators are notified that the timeline for reopening the market is dependent upon mitigating the malware attack.
- By 3:45 pm EDT, IT security teams at both MCE and Pandex have determined that both exchanges have been affected by the same malware.
- Client relations teams from both Cibola Securities and Vault Door Investments are working to generate status updates to customers and reassure them that they are doing everything they can to ensure the integrity of all energy-related transactions enacted prior to the malware attack.
- Industry groups are actively apprising members of the evolving situation and current status of the Pandex and MCE platforms, as well as providing assessments of known impacts.
- Meanwhile, the terrorist attacks on the ULCCs and VLCCs are dominating global news headlines, with Wall Street reacting to the speculation that this may be the beginning of a

coordinated effort by terrorists to drive up global energy prices and create chaos in capitalist markets.

- Despite the fact that the affected companies have neither confirmed nor denied that the cause of the platform outage is a cyberattack, media outlets are speculating that this is the case and, in many cases, airing opinions from experts that these events could contribute to significant volatility in the equities, index fund, and bond futures markets for the foreseeable future.

**Discussion Questions for International Regulators:**

1. How would you as international regulators be notified of the situation?
  - Do you have specific notification requirements? Expectations?
2. What would be your outreach process – exchanges, clearing houses, intermediaries, industry groups?
3. What is your expectation of communication from the exchanges, clearing houses, intermediaries, industry groups to you as the regulator?
4. What is the role for the CFTC and international regulators?
5. How would you suggest an international regulatory effort be coordinated?
6. How would you respond if the US exchanges started to close? OTC trading drastically increases?
7. What are the public relation considerations for all stakeholders involved?



**CFTC International Regulators Meeting  
Participants and Speakers  
March 14, 2017**

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