THE TRADING SHOW

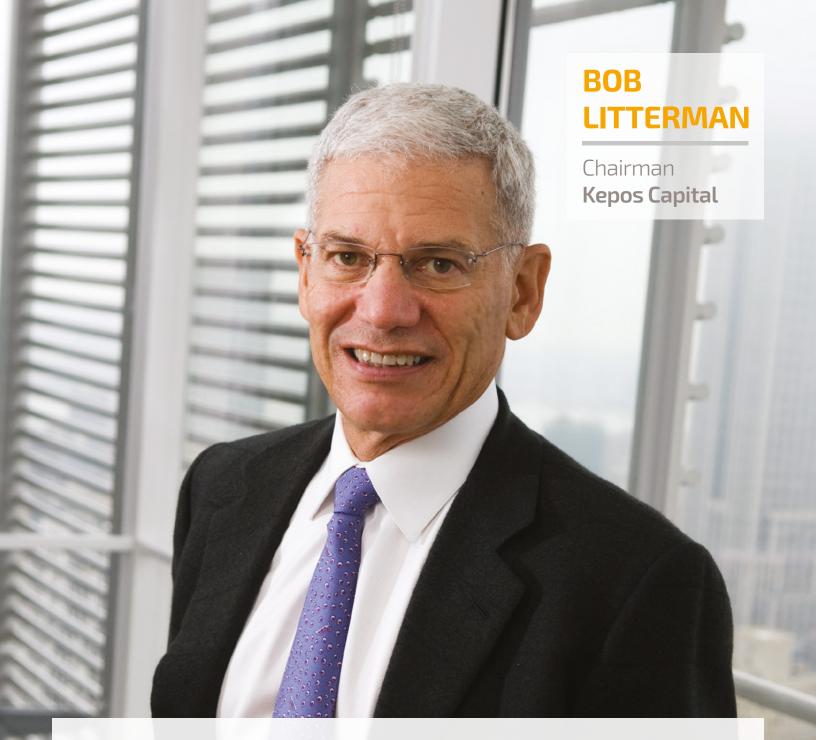
CHICAGO 2017

May 17-18, 2017

Navy Pier, Chicago, IL

TODAY'S MARKETS. TOMORROW'S TECHNOLOGY.

QUANT WORLD	AUTOMATED TRADING	BIG DATA IN FINANCE
EXCHANGE TECHNOLOGY	HPC	BLOCKCHAIN



Pricing Carbon- a pragmatic approach to address mankind's greatest risk management problem

Bio: Bob Litterman is the Chairman of the Risk Committee and a founding partner of Kepos Capital, a New York City based systematic global macro firm. Prior to joining Kepos Capital in 2010, Bob enjoyed a 23-year career at Goldman, Sachs & Co., where he served in research, risk management, investments and thought leadership roles. He oversaw the Quantitative Investment Strategies Group in the Asset Management division. While at Goldman, Bob also spent six years as one of three external advisors to Singapore's Government Investment Corporation (GIC). Bob was named a partner of Goldman Sachs in 1994 and became head of the firm-wide risk function; prior to that role, he was co-head of the Fixed Income Research and Model Development Group with Fischer Black. During his tenure at Goldman, Bob researched and published a number of groundbreaking papers in asset allocation and risk management. He is the co-developer of the Black-Litterman Global Asset Allocation Model, a key tool in investment management, and has co-authored books including The Practice of Risk Management and Modern Investment Management: An Equilibrium Approach (Wiley & Co.).

OPEN LETTER

Dear Chicago Quant and Trading Community,

Over the last 10 years, algorithmic trading has permeated through the world's biggest markets and most popular asset classes.

As automated strategies began to usher in a new era for financial markets at the turn of the millennium, Terrapinn become the first conference organizer to recognize the need for a meeting of the minds among the early adopters of the algorithm in a world trading mecca – Chicago.

Since that inaugural event almost 10 years ago, the Trading Show has blossomed into a global gathering featuring 1,000+ attendees representing the foremost trading firms, banks, exchanges and quant funds.

Trading first came to the screen in the 1990s following the introduction of Electronic Communication Networks. Now, the well-manicured and carefully coiffed Gordon Gekkos that became synonymous with trading are being replaced by statistical masterminds wearing headphones and sitting behind their computer screens.

As financial markets travel further into the age of the algorithm, there is no shortage of important developments for all industry stakeholders. Critical policy questions remain about how the CFTC, SEC and other market regulators should most effectively oversee the industry during a continued shift toward thinking machines and smarter, faster algorithms.

Big data has become a critical source of alpha as both volumes of information and the processing power to analyze it continue to increase exponentially. Additional innovations in emerging fields like machine learning and quantum computing continue to demonstrate tremendous potential for automated trading.

In 2017, we are excited to announce the addition of a Blockchain segment to Trading Show's already well-established Automated Trading, HPC, Quant World, Big Data in Finance and Exchange Technology brands.

With an upside worth potentially billions of dollars in eliminated redundancy, latency, and error costs in post-trade processing, it's not surprise that blockchain and distributed ledger technology is generating a level of buzz that we haven't seen since the advent of the information superhighway.

However, critical questions remain. How can regulators make sure they approach blockchain in a way that does not stifle innovation? Do Bitcoin and other underlying digital currency assets utilizing the blockchain hold untapped alpha for trading firms? Will smart contracts become the most exciting and transformative application from blockchain technology?

On May 17 and 18, in addition to the forward-thinking algorithmic trading technology content you've come to expect from the Trading Show, you will also have the opportunity to hear from some of the industry's top blockchain thought leaders. Furthermore, with a host of targeted roundtables, a revamped meeting app and several hours of dedicated networking time, there is no better forum for making new connections.

We both look forward to welcoming you back to Navy Pier for the seventh installation of Trading Show Chicago – the biggest and best yet.

Yours,

Jesse and Steve





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TRADING SHOW CHICAGO 2017 SPEAKERS

Trading Firms



Partner & Algorithmic Trading Lead **DV** Trading



/lanaging **Nember** LaSalle Trading



Partner Myra Trading



Founder

Deep Trading



Capitalogix Trading



Proprietary Trader Budo Group



Quantitative Hedge Funds,

Digital Currency Trader **DRW Trading Group**



Tross-Asset Trader Global Macro Edge: Maximizing Return



NANCY

EVP & General Counsel **Allston Trading**



ANDREW

Head of Research t Strategy **G2** Trading



Director of Quantitative Research



Founding Partner Optimized Trading



BEGLEY

Managing Partner Saffron Trading



President **Providence Trading**



Trading TLP Trading LLC



BOB LITTERMAN

Chairman Kepos Capital



CHAKRAVORTY



FREDERIC BOYER

Global Head of Quantitative Research Global Credit Citadel LLC Management



MARAT MOLYBOGA Chief Risk Officer



GRANZOW

Senior Technology Officer **BMO** Capital Markets



SUSAN **RAMONAT**

hief Risk Officer t Blockchain



BRETT R. **SCHLAPFER**

Managing Member Bullet Hill Capital



KOUTOULAS

Typhon Capital



GLENN

Founder & CIO Golden Point Capital



ANDREW STRASMAN

Totem Asset Group





KINAHAN Chief Market Strategist

TD Ameritrade



DEREK WANG

Bell Curve Capital



WENIGER

Director. Senior Strategist **BMO** Wealth



DAN **GRAMZA**

President Gramza Capital Management



ABBASI

Co-Founder Coatbridge Capital



BORIS ALBUL

Chief Investment Officer OSF Capital Management



EZRA GLASTON

Chicago Ventures



MEUCCI Chief Risk



THAPELO

EFREM

HOFFMAN

CEO & Founder

Running Alpha

TSHOLE Botswana Stock Exchange

Exchanges, Vendors, Academics,



HUTCHINSON Director

Supermicro



SCATENI

Vice President CIARA Technologies



PERSICO

Founder & CEO Anova Technologies



TAYLOR CTO

Exegy



LOUIS **LOVAS**

Director OneMarketData



VIKRAM MAHIDHAR

SVP, Artificial Intelligence **RAGE Frameworks**



PETER NABICHT

Principal PFN Consulting



JOHN **ROBISON**



GREG **ULEPIC**

PAOLO

Director Avere Systems



JOHN **RAPA**

President & CEO Tellefsen &

EDWARD

AdvisoryFX



VUORENMAA

Proprietary Trader & Blockchain



MATTHEW **DIXON**

Assistant Professo of Finance Illinois Institute of **Technology**



HONORE

MarketsTech



CHEN

BILL

Head of Statistical Arbitrage Group Susquehanna International



E. PAUL **ROWADY** Director of Researc

Alphacution Research Conservatory



ROBERT WALKER CTO

xCelor

MACKIE Senior Advisor Maven Wave Partners

HAROON

CHUCK



SIRONI Author FinTech Innovation: From Robo-

Advisors to Goal

Based Investing and Gamification



WEINHAUS Managing Director



TYC Co-Founder McKay Brothers



STUDNITZER



DAVID RUTTER Founder & Managing Partner

NIELSON Executive Director The Blockchain Academy

BRYANT

DIXON Titan Regulation

JULIE

DE BARRY Founder ENYX

LAURENT



ASKARI Director Exchange









KEYNOTES DAY 1



John Rapa President & CEO. Tellefsen & Company



Chief Market Strategist, **TD** Ameritrade

Panel: Ex-change of the guard - competition, innovation and regulation in the new world order for exchanges

- Equity markets competition & fragmentation have endeavors to increase competition, transparency and fairness made the market too crowded? Has this impacted best execution?
- Recent mergers how will the unions of CBOE/BATS, NASDAO/ISE & LSE/Deutsche Boerse shape the future of the global exchange sector?
- Consolidation desirable for global markets?
- Regulation & oversight market surveillance, supervision and compliance of cross-asset trading
- New markets, products & asset classes what's on the horizon?



Chairman, Kepos Capital

Pricing carbon - a pragmatic approach to address mankind's greatest risk

- The difficulties of pricing high-cost, low-probability events is there a viable economic argument for implementing a costly carbon tax whose benefit may or may not be realized at an unknown point in
- How much should society spend today to insure the future against climate risk?
- Investor and shareholder response to climate risk are we approaching a tipping point in public opinion and policy?



Bill Chen Head of Statistical Arbitrage Group, Susquehanna International Group

The Mathematics of Poker - quantitative methodology for the Hold'em table and

- What lessons can be applied from poker to quantitative trading, and vice versa?
- Online vs. live poker and pit trading vs. screen trading
- Exploitative play vs. optimal play
- Poker finance portfolio theory, risk of ruin and the Kelly Criterion
- Psychological components of trading and poker
- Will quantitative skills and knowledge ultimately become a necessity for poker players?



THE TRADING SHOW CHICAGO 2017 Trading the Trump factor – a new source of portfolio alpha? price and volatility impact on companies, currencies, and nations Efrem Hoffman, CEO & Founder, Running Alpha Investment James Koutoulas, CEO, Typhon Capital Management Julie Dixon, President, Titan Regulation Jeff Weniger, Director, Senior Strategist, BMO Wealth Management

- · Measuring the relationship between Trump's Twitter sentiment, the overall market mood, and the short and longer-range
- Will it be a viable strategy to develop algorithms designed to take advantage of short-term price discrepancies caused by a

MAY 17, 2017

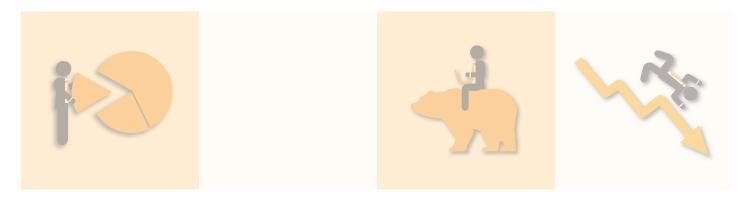
CHICAGO, IL

Presidential tweet risk – what unintended consequences might emerge as a result of Trump's penchant for Twitter?

Make sure you don't miss anything - Register now at www.terrapinn.com/TradingChicago

TRADING INFRASTRUCTURE

With high-performance processors, complex algorithms and lightning fast execution becoming key competitive differentiators for trading firms, technology has always been in the DNA of Trading Show Chicago. In 2017 and beyond, top firms will have to be both smart and fast to outwit the competition. Take advantage of the opportunity to hear how senior technology leaders from **Myra Trading**, **BMO Capital Markets** and **G2 Trading** are wiring their firms for success.





Mehmet Yanilmaz Partner, Myra Trading



Richard Begley, Managing Partner, Saffron Trading Group



Derek Wang CEO, Bell Curve Capital

Panel: 'Best ex' standards - what is the buy-side looking for from brokers?



- **Buy-side control** what is driving buy-side firms to seek more power in the execution process? How would more buy-side control affect clearing costs?
- **Cross-asset market microstructure** how are Reg NMS and MiFID changing firms' approach to sourcing liquidity? Has regulation ultimately improved or hindered execution?
- **Execution strategy** how are firms deploying algorithms in both dark and lit venues to locate the best price with minimal price leakage?
- Broker innovation how can savvy brokers evolve strategies and differentiate algorithms to meet buy-side demands?



John Robison CEO, Cape City

Panel: Ultra-low latency connectivity – how is the game of speed changing in today's automated trading environment?

- Cloud & carrier neutral co-location selecting the right connectivity for your firm
- **Fiber vs. microwave vs. millimeter wavelength** comparing and contrasting new developments in network connectivity
- Benefits beyond latency how can you parlay low latency into high trading intelligence?
- **Network monitoring** solutions, methods and technologies for identifying trends, detecting outliers and correcting excessive latency and jitter in real time
- How can you accurately measure latency and jitter in a microsecond-sensitive ultra-low latency networking environment?
- Next-generation data centers open infrastructure, software-defined technologies and automation
- Low-earth orbit (LEO) satellites a revolution in ultra-low latency connectivity?





Andrew Curto
Head of Research
& Strategy,
G2 Trading



Robert Walker h CTO, xCelor



Laurent de Bar Founder. **ENYX**

Panel: FPGAs, acceleration technologies, GPUs and high-performance hardware

- **Budget balancing** -speed vs. capacity and latency vs. performance
- **Parlaying speed into intelligence** how are new classes of server technology enabling deterministic performance in addition to cutting latency?
- **Measuring the value of FPGA enhanced functionality** how can they optimize trade workflow and be applied beyond the traditional domains of market data acquisition and distribution?
- **Key differentiators for high-performance servers** what features can provide latency-sensitive trading firms with superior performance in connectivity, data access and computation?in both dark and lit venues to locate the best price with minimal price leakage?



Stéphane TyČ Co-Founder, McKay Brothers

Microwave lines – a review of the latest developments

- Improving regulation through transparency and complexity reduction
- More routes? What to expect
- Methods of ensuring reliability



ALTERNATIVE DATA & ALPHA GENERATION

The big data revolution has permeated every vertical and sub-vertical across the business world, including the hyper-competitive capital markets arena. Now, with almost every aspect of human life becoming digitized, quants and traders are turning to the most unconventional of data sources to mine for alpha. Learn how information from unlikely places – such as nanosatellites, drone imagery, Internet of Things and GPS – could be the most critical ingredients for generating alpha in tomorrow's markets.



E. Paul Rowady
Director of
Research,
Alphacution
Research
Conservatory

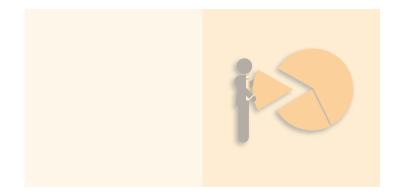


Howard Getson

CEO, Capitalogix

Trading

Jay Feuerstein Proprietary, Budo Group





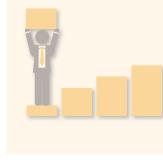
- Is it sustainable to sell a packaged alpha product? If so, how are vendors offering packaged alpha products accounting for crowding and the resultant decay of the value with time?
- Will the ability to manage emerging unstructured data sources (i.e. nanosatellites, drone imagery, Internet of Things) ultimately become the most critical ingredient for alpha discovery?
- How are vendors helping firms de-silo and integrate enterprise data into a unified environment?
- Underlying infrastructure how will firms maintain the necessary computational resources to uncover alpha-generating signals from expanding and diversifying data sources? Will in-memory applications become a critical component in all data management and analytics platforms?



Brett R. Schlapfer Managing Member, Bullet Hill Capital

Using sentiment analysis to inform trading decisions – a viable long-term strategy?

- Reliable or liability? Given the inclusive nature of social media, how reliable are datasets in predicting future asset prices?
- Positive vs. negative sentiment do they have different effects on the intensity and duration of price movements?
- Blogs vs. news vs. social media do different sources of sentiment impact price movements differently?









Matthew Dixon Assistant Professor of Finance, Illinois Institute of Technology

How and when machine learning methods can be applied to automated trade decisions

- How to extract relevant features from level II exchange data and apply machine learning methods to predict near-term directional price movements using scikit-learn and Pandas
- How to create and perform simple backtests of trading strategies
- How to navigate the engineering challenges of creating production grade machine learning-based strategies



Gurav ChakravortyCo-Founder, **qplum**

Implementing deep learning algorithms to forecast market trends

- What are deep neural networks (DNNs) and how has their predictive power been harnessed in the speech transcription and image recognition communities?
- How has the computational complexity of DNNs hindered its adoption to predicting behavior in the financial markets?
- How can the algorithm be effectively deployed on general purpose high-performance infrastructure?

GPS & location-tracking data - bleeding-edge applications for predicting market behavior

- What companies should trading firms and quant funds look out for as sources of "edge-worthy" real-time tracking data in the era of digitization?
- How can real-time information about commercial road traffic be used to provide insights into economic trends?
- Further applications of real-time GPS –crude oil, crop yields, manufacturing, construction

Apache Spark - core statistics and machine learning models

- What are the key tenets of Spark's distributed computing framework?
- Building statistical and machine learning applications using Apache Spark
- Applying and scaling algorithms to solve enterprise big data challenges



TECHNOLOGY, BUSINESS MODELS & REGULATION

The exchange sector continues to change dramatically amidst sweeping consolidation and the unwavering pursuit of scale and variety in execution models. Most notably, CBOE's historic \$3.2 billion acquisition of Bats last September, propelling the world's oldest options exchange into a new rival for the world's biggest market operators. Meanwhile, disruptive innovations like blockchain are showing real potential for transforming execution, settlement and other processes in the trade lifecycle. Furthermore, the regulatory environment created by MiFID and Reg NMS continues to foster the inception of new trading venues and alternative trading systems. Join world exchange leaders for a deep dive into the technological, economic and regulatory forces blazing the path forward for market operators.



Mehmet Yanilmaz Partner. **Myra Trading**

Accelerating blockchain's performance - current limitations and promising

- Accelerating distributed synchronizations and mining operations across blockchain applications
- Effective splitting of functions and computational loads between hardware substrates and software

role of market operators in the age of the algorithm?

Panel: Engine for (ex)change – how will technology re-invent the

Changing business models – have exchanges morphed into technology vendors?

Vision for blockchain – an end-to-end solution streamlining trading, clearing and

Cloud factor – will venues ultimately move market operations to the cloud? **Security & compliance** – innovation and initiatives for bolstering security in an

Artificial intelligence – what role will smart machines play in tomorrow's

- Vertical automata partitioning across blockchains' implementation layers for scalable throughput
- performance



Chuck Mackie Senior Advisor Maven Wave **Partners**



Ari Studnitzer. Director, Technology & Architecture, CME

- Leveraging proven, massively-parallel, concurrent computing technologies for blockchain



Bryant Nielson Executive Director. The Blockchain Academy



Susan Ramonat Chief Risk Officer & Blockchain Program Lead, SEI Investments

The dark side of decentralization – what are the hidden risks in a blockchain revolution?

- Consumer protection combating fraud, theft, counterparty default and other risks in the absence of a central authority
- Volatility exposure safeguarding against extreme price fluctuations without a central bank and/or other means of economic stabilization
- **Enforcement** how can regulatory bodies enforce rules and standards in a decentralized environment?



Thapelo Tshole CEO, Botswana Stock Exchange

David vs. Goliath - how are savvy smaller exchanges adapting in the consolidation

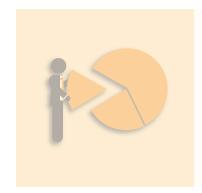
- How are forward-thinking trading venues using their technology and infrastructure dollars to drive efficiency and performance?
- Crowdfunding and other unconventional, disruptive business models
- Risks and rewards of pursuing partnerships with larger exchanges

Blockchain regulatory rigmarole - is the current environment facilitating innovation?

settlement?

- Global initiatives do we need more international collaboration to develop appropriate policies?
- Stakeholder reaction are key market players, regulators and policymakers encouraging the development and integration of distributed ledger technology?
- Regulating the unregulatable how can regulators make sure they approach blockchain in a way that does not stifle innovation?

increasingly unsecure world







David Rutter Founder & Managing Partner. R3CEV

Blockchain - not a game, but a game change

- Nuts & bolts why blockchain is nothing more than a new form of database technology
- **Albatross of legacy infrastructure** why obsolete infrastructure costs financial institutions billions from operational inefficiencies, failures and cyber attacks
- Further applications for distributed ledger optimizing back-office processing, digitizing physical transfer of assets, increasing transparency in payments, reducing the risk of fraud and providing digital identities to the unbanked

How is innovation driving change to the capital markets intermediary?

- Regulatory impact how are new rules impacting stress testing, trading, clearing, settlement and other business functions?
- New blood assessing the proliferation of dark pools and multi-asset trading venues
- The blockchain effect how will the maturation of distributed ledger technology impact financial intermediaries?
- Could it actually render obsolete the need for a third-party "trust provider" for transactions?
- Short & long-term outlooks how will the intermediary add value in 2017, and in the more distant future?



BIG DATA INFRASTRUCTURE & ARCHITECTURE

Having the right tools in your arsenal to store, analyze and process massive quantities of financial information is crucial in today's data-driven trading landscape. The maturation of cloud computing, OpenStack, Hadoop and other related big data software are no longer commodities, but essential components of the technology stack. Take advantage of this exclusive opportunity to hear from leading data scientists, engineers and financial IT leaders about how to build trading infrastructure for optimal performance and efficiency in the big data era.



Louis Lovas Director, OneMarketData



Peter Nabicht
Principal,
PFN Consulting

Panel: Enterprise data management – how are you applying innovative technologies to streamline and modernize the information lifecycle?

- Warehousing & integration best practices for building an enterprise data warehouse and unifying data management across different IT teams and departments
- **Standardization** what are the benefits of a common industry language, or financial Rosetta Stone, on operational efficiency and regulatory reporting?
- **Storage** deploying cloud servers and software-defined data centers to maximize storage efficiency and scalability; maintaining storage requirements to accommodate new data sources and exponentially growing data volumes
- Governance how to design an effective data governance strategy for managing regulatory risk and meeting compliance demands
- Roadblocks data quality issues; integrating big data technologies with legacy IT infrastructure



Mark Granzow Senior Technology Officer, BMO Capital Markets



Patrick Scateni Vice President, CIARA



Heath Hutchinson Director, Supermicro



Adam Honore CEO, MarketsTech

Panel: Re-thinking IT infrastructure for latency-sensitive trading – compute, storage and networking

- Compute infrastructure batch vs. stream processing, Apache Storm, Map4
- Storage infrastructure cluster computing, in-memory computing
- NoSQL/NewSQL databases Hadoop, Spark, MongoDB
- **Process externalization & the cloudification of trading** how should your IT department respond to the "everything as-aservice" (XaaS) revolution?

DATA ANALYTICS, RISK & RETURNS

Harvesting intelligence from data—and converting that intelligence into productive financial decisions—is the key driver for firms today. From unsupervised deep learning to deploying Hadoop across the enterprise, Trading Show Chicago will provide an unparalleled opportunity to collaborate with top data scientists, discover new analytics tools and ultimately learn how to extract deeper insights in real time from your data



Attilio Meucci Chief Risk Officer,

FinTech Education - leveraging technology to understand finance, analytics, and data in theory and practice

- Say it (Ying & Yang) hardcore math made easy
- **See it** (Visualization) voiced-over simulations as opposed to lecture recording
- **Do it** (Interactive computing) live data, cloud-based computing, hosted editing for on-the-fly replication
- **Share it** (Community) slide neutralization, feedback looping
- Frame it (Cross-linking) multi-media interconnectivity, spoke-to-hub architecture



Euan Sinclair Partner, Talton



Brian Miller Head of Quantitative Director of Research & Strategy, Optimized Trading



Carl Hopman Perot Investments Management



Boris Albul Chief Investment Ouantitative Research, Officer, OSF Capital

Panel: Risky business - how are top quant funds managing, modeling and measuring risk?

- How are portfolio managers accurately assessing risk as modern markets become increasingly complex and volatile?
- How can you leverage next-generation data management and analytics tools for providing an integrated view of portfolio risk exposure across time horizons and asset classes?
- Risk modelling how can new validation tools be applied to ensure accuracy?
- Predictive analytics how are you using predictive tools to measure risk?

How can cognitive computing provide a competitive edge in financial data analysis?

- Can cognitive computing can be applied to improve trading market analytics and market risk evaluation?
- Applying cognitive computing technology to explore, understand and apply insights from unstructured data to a range of financial market scenarios
- Using cognitive computing to identify signals from trading breaches, disorderly trading and market abuse

SMART CONTRACTS & DIGITAL **CURRENCIFS**

Much is made about blockchain technology itself, but how it is applied to streamline and optimize processes will ultimately decide whether it lives up to the hype. Cryptocurrencies and smart contracts were among the first applications built on the underlying distributed ledger technology, but will they ultimately be the most transformative? Join blockchain, cryptocurrency and capital markets thought leaders for in-depth discourse on the most hyped innovation since the Internet.

Algorithmic trading of digital currencies - untapped alpha for prop firms?

- Prevalence how much current volume is created by automated strategies?
- Developing a trading strategy what works best?
- Digital currency markets vs. traditional markets liquidity, execution, trading fees



Digital Currency Trader, DRW Trading AdvisoryFX



Edward Weinhaus Managing Director,



Vuorenmaa Proprietory Trader & Blockchain Expert

Beyond Bitcoin - illustrating the landscape for emerging and established digital currencies

- Market size, growth, competition & composition with the cryptocurrency market exceeding \$10 billion in 2016, what are the growth expectations in 2017 and 2018?
- Comparing & contrasting cryptocurrencies mining requirements, exchange rates, market cap, payment applications, anonymity and other special features
- Bitcoin alternatives will alternative currencies like Litecoin and Ripple challenge Bitcoin's dominance?

Smart contracts - what's the deal?

- Establishing a definition can "smart contracts" simply be defined as a piece of software stored, verified and executed on
- Use cases in finance is clearing and settlement the most promising domain for smart contract automation? What about digital wallets? Loans? Escrow?
- Adoption challenges legal/regulatory considerations, integration into business ecosystem, lack of standards/best
- When should companies use blockchain-enabled smart contracts instead of existing technology?





KEYNOTES DAY 2



Brian Peterson
Partner & Head of
Algorithmic Trading,
DV Trading

High-performance computing and algorithmic trading – how will new breakthroughs in advanced computer science change the game

- How can we define the use of HPC using common patterns drawn from computer science and finance?
- How can we use these patterns to improve the applicability of existing research, facilitate the genesis of new research and increase system capability/throughput?
- Examining HPC use cases, bottlenecks and engineering solutions across market data, pricing, market surveillance, portfolio optimization, strategy backtesting, pricing and risk



Efrem Hoffman CEO & Founder, Running Alpha Investment



James Koutoulas CEO, Typhon Capital Management



Jeff Weniger
Director, Senior
Strategist, BMO Wealth
Management

Trading the Trump factor - a new source of portfolio alpha?

- Measuring the relationship between Trump's Twitter sentiment, the overall market mood, and the short and longer-range price and volatility impact on companies, currencies, and nations
- Will it be a viable strategy to develop algorithms designed to take advantage of short-term price discrepancies caused by a presidential tweet?
- Presidential tweet risk what unintended consequences might emerge as a result of Trump's penchant for Twitter?





AUTOMATION & REAL-TIME INTELLIGENCE

Automated trading, by its namesake, was born by exploiting the potential of automation technology. Coming hand in hand with the continued automation of trading processes has been exponential growth in data volumes and varieties. Glean insights from stories of automation success and uncover strategies for extracting value from real-time intelligence across the front, back and middle offices from traders, engineers and other financial technologists.



John Netto Cross-Asset Trader & Author, The Global Macro Edge: Maximizing Return Per Unit-of-Risk

"Automating the macro narrative" – how all types of traders and investors can approach automating operations, analytics, and execution

- Analytics case study about how John automated his market analytics through both off-the-shelf products and custom built applications
- **Operations** how John reconciles brokerage statements, expenses, and P&L attribution across multiple strategies and multiple accounts
- **Execution** the process to automate some or all of your execution through off-the-shelf software applications or building your own proprietary execution software
- Seven Steps to build a proprietary software application



Mike Persico Founder & CEO, Anova Technologies

The value of microsecond – an analysis of the information flows within the New Jersey equity triangle (BATS, NASDAQ, NYSE) (topic to be updated)

- Tick data analysis of the trade-trade response between exchanges
- What exchange drives the majority of price formation within the equity triangle?
- The value of a microsecond on a per route basis, calculated both for latency and highest availability



Daniel Gramza President, Gramza Capital Management

Five serious option trading mistakes and their solutions

- How to create and manage specific directional option trading strategies for both short term and long term timeframes
- Establishing specific trading guidelines, profit and risk management objectives to enable consistent reactions to the market
- A proprietary approach to Behavioral Japanese Candle trading techniques

PRICING, VALUATION & PORTFOLIO CONSTRUCTION

Trading Show Chicago has always had a strong following in quantitative finance. This will continue in 2017 as acclaimed Chief Risk Officers and Heads of Quant will unveil new research in portfolio construction, asset allocation and the pricing and valuation of derivatives. Don't miss your chance to hear from Chief Risk Officers and Head Quants from firms like **Efficient Capital Management, Citadel LLC** and **UBS**.



Marat Molyboga Chief Risk Officer, Efficient Capital

Trend, carry and hedging premium

- Why carry is a significant component of trend
- Conditioning trend signals on basis improves performance
- Trend following correlation to hedging premium vs. carry correlation to hedging premium



Euan Sinclair Partner, Talton Capital Management

Global macro indicators for predicting broad market volatility

- **Two rules for forecasting volatility** tomorrow's volatility is the same as today's and long-term volatility will be what it has always been
- Fed-induced schizophrenia the impact of central bank policy on market fits and tantrums
- Geopolitical events how will the incoming Trump administration impact the market's fear gauge?

How do rising rates impact low-risk investment portfolios?

- Most low risk portfolios whether built as minimum variance or using other techniques have a duration exposure they are positively exposed to falling rates
- How does this exposure affect the performance of a low-risk portfolio if rates start to rise?
- Does valuation have any effect on this?





MARKET STRUCTURE, REGULATION & GRC

Technological developments have hastened the speed of change across capital markets – and regulators are working extra time to keep up. Join regulators, trading firms and exchanges for a discussion into current and future oversight of financial markets.



Managing Member LaSalle Trading Group

Market structure and regulation in the futures and options market

- How will the proliferation of new trading venues affect your trading strategy?
- How will current and future regulation, i.e. REG-NMS, Order Protection Rule, Access Rule, Sub-Penny Rule, address predatory automated, high-frequency trading strategies?
- How are the nuances of modern market microstructure affecting volatility and liquidity across asset
- The latency barrier and its impact on achieving best execution have the markets sacrificed fairness for sneed?



President, **Titan Regulation**



Nancy Stern EVP & General Counsel, **Allston Trading** Regulation

Regulation AT – how would the CFTC's landmark proposal affect proprietary traders, market fairness

- How would the CFTC and other government agencies use proprietary source code obtained from automated traders to reduce the likelihood of "flash crashes" and other harmful market disruptions?
- Do the potential benefits justify significantly lowering the bar for government access to intellectual property?
- How will regulators protect source code from hackers and cyber-breaches?
- How would market participants, particularly smaller ones, handle the higher compliance costs created by Reg AT's increased risk controls, reporting demands and recordkeeping requirements?
- How should exchanges and trading venues be involved in the oversight process?

PROGRAMMING & SOFTWARE DEVELOPMENT

Today's quants are proficient in a number of different programming languages. Between C++, MATLAB, Julia, R, Java and Python, there is a lot of debate about which language performs best for developing applications in quantitative finance. You'll have the opportunity to get a crash course on programming from leading quantitative developers from firms like Citadel LLC and Deep Trading.



Yam Peleg **Deep Trading**

Using Python for financial data analysis

- Python basics development environment and scientific libraries
- Data management connecting your Python-based trading strategy to the big data ecosystem
- Research process the nuts and bolts of building a quantitative trading strategy using Python



Sal Abbasii Co-Founder. Coatbridge Capital



Alex Stefan Popovici Frederic Boyer



Head of Quantitative Global Head of Quantitative Trading, **TLP Trading** Research – Global Credit,

Case study: How to build a quant model - real world answers to real world problems

- Strategy development how to identify and implement a trading strategy
- Backtesting pitfalls what are the most common mistakes made by quants when backtesting trading strategies? Is backtesting best evaluated as a method for rejecting bad strategies in lieu of finding god ones?
- Execution system linking to a brokerage, automating the trading and lowering transaction costs
- Risk Management asset allocation, technology risk and brokerage risk



ROUNDTABLES

The interactive roundtable sessions offer you the chance to focus your time at the Trading Show Chicago. With topics spanning the disruptive impact of robo-advisors to OpenStack for the enterprise, the agenda offers something for all stakeholders from the front office to the back office, and everywhere in between.

1:

Robo-advisors – threat or opportunity to traditional asset management?

2:

Java – programming for quantitative finance

3:

Docker and containerization

4:

Bayesian networks – applications for identifying relationships between variables

5:

Permission vs. permissionless blockchain

6:

Anomaly detection

6:

Market surveillance

8

Compute vs. storage in your infrastructure stack

9:

Grid vs. cluster computing

10:

Database models – comparing and contrasting NoSQL, SQL and NewSQL 11:

Using Cassandra, MongoDB and others for tick data storage

12:

Supervised vs. unsupervised deep learning

13:

OpenStack



8:00

Breakfast & Registration

8:50

Chairperson's Opening Remarks

9:00

Panel: Ex-change of the quard - competition, innovation and regulation in the new world order for exchanges

- Equity markets competition & fragmentation have endeavors to increase competition, transparency and fairness made the market too crowded? Has this impacted best execution?
- Recent mergers how will the unions of CBOE/BATS, NASDAQ/ISE & LSE/Deutsche Boerse shape the future of the global exchange sector?
- Consolidation desirable for global markets?
- Regulation & oversight market surveillance, supervision and compliance of cross-asset trading
- New markets, products & asset classes what's on the horizon?

Moderator: John Rapa, President & CEO, Tellefsen & Company

J.J. Kinahan, Chief Market Strategist, TD Ameritrade

Pricing carbon - a pragmatic approach to address mankind's greatest risk management problem

- The difficulties of pricing high-cost, low-probability events is there a viable economic argument for implementing a costly carbon tax whose benefit may or may not be realized at an unknown point in the future?
- How much should society spend today to insure the future against climate risk?
- Investor and shareholder response to climate risk are we approaching a tipping point in public opinion and policy?

Bob Litterman, Chairman, Kepos Capital

The Mathematics of Poker - quantitative methodology for the Hold'em table and trading desk

- What lessons can be applied from poker to quantitative trading, and vice versa?
- Online vs. live poker and pit trading vs. screen trading
- Exploitative play vs. optimal play
- Poker finance portfolio theory, risk of ruin and the Kelly Criterion
- Psychological components of trading and poker
- Will quantitative skills and knowledge ultimately become a necessity for poker players?

Bill Chen, Professional Poker Player & Head of Statistical Arbitrage Group, Susquehanna International Group

SPEED Networking & Morning Break

AUTOMATED TRADING

QUANT WORLD

EXCHANGE TECHNOLOGY

HPC

Trading Infrastructure

BIG DATA IN FINANCE

BLOCKCHAIN

Alternative Data & **Alpha Generation**

Technology, Business Models & Regulation

Panel: 'Best ex' standards - what is the buy-side looking for from brokers?

- **Buy-side control** what is driving buy-side firms to seek more power in the execution process? How would more buy-side control affect clearing costs?
- Cross-asset market microstructure – how are Reg NMS and MiFID changing firms' approach to sourcing liquidity? Has regulation ultimately improved or hindered execution?

Panel: Next-generation data vendors - what tools, technologies and applications will be most critical for enabling alpha discovery?

• Is it sustainable to sell a packaged alpha product? If so, how are vendors offering packaged alpha products accounting for crowding and the resultant decay of the value with time?

Panel: Engine for (ex)change - how will technology re-invent the role of market operators in the age of the algorithm?

- Changing business models have exchanges morphed into technology vendors?
- Vision for blockchain an endto-end solution streamlining trading, clearing and settlement?
- **Cloud factor** will venues ultimately move market operations to the cloud?

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- **Execution strategy** how are firms deploying algorithms in both dark and lit venues to locate the best price with minimal price leakage?
- **Broker innovation** how can savvy brokers evolve strategies and differentiate algorithms to meet buy-side demands?

Mehmet Yanilmaz, Partner, Myra

Richard Begley, Managing Partner, **Saffron Trading Group**

Derek Wang, CEO, Bell Curve Capital

- Will the ability to manage emerging unstructured data sources (i.e. nanosatellites, drone imagery, Internet of Things) ultimately become the most critical ingredient for alpha discovery?
- How are vendors helping firms de-silo and integrate enterprise data into a unified environment?
- Underlying infrastructure how will firms maintain the necessary computational resources to uncover alpha-generating signals from expanding and diversifying data sources? Will in-memory applications become a critical component in all data management and analytics platforms?

Moderator: E. Paul Rowady, Director of Research, Alphacution Research Conservatory

Howard Getson, CEO, Capitalogix Trading Jay Feuerstein, Proprietary Trader, Budo

Security & compliance innovation and initiatives for bolstering security in an increasingly unsecure world

Artificial intelligence – what role will smart machines play in tomorrow's exchanges?

Ari Studnitzer, Director, Technology & Architecture, CME Group

Chuck Mackie, Senior Advisor, Maven **Wave Partners**

Panel: FPGAs, acceleration technologies, GPUs and highperformance hardware

- Budget balancing -speed vs. capacity and latency vs. performance
- Parlaying speed into **intelligence** – how are new classes of server technology enabling deterministic performance in addition to cutting latency?
- Measuring the value of FPGA enhanced functionality how can they optimize trade workflow and be applied beyond the traditional domains of market data acquisition and distribution?
- Key differentiators for highperformance servers – what features can provide latencysensitive trading firms with superior performance in connectivity, data access and computation?

Robert Walker, CTO, xCelor Andrew Curto, Head of Research & Strategy, G2 Trading Trading

GPS & location-tracking data bleeding-edge applications for predicting market behavior

- How can trading firms apply data from tracking the real-time movement of goods across land, air and sea?
- How can real-time information about road traffic be used to provide insights into economic trends?
- Further applications of realtime GPS - crude oil, crop yields, manufacturing, construction

Using sentiment analysis to inform trading decisions - a viable long-term strategy?

- **Reliable or liability?** Given the inclusive nature of social media, how reliable are datasets in predicting future asset prices?
- Positive vs. negative sentiment - do they have different effects on the intensity and duration of price movements?
- Blogs vs. news vs. social **media** – do different sources of sentiment impact price movements differently?

Brett R. Schlapfer, Managing Member, **Bullet Hill Capital**

David vs. Goliath - how are savvy smaller exchanges adapting in the consolidation era?

- How are forward-thinking trading venues using their technology and infrastructure dollars to drive efficiency and performance?
- Crowdfunding and other unconventional, disruptive business models
- Risks and rewards of pursuing partnerships with larger exchanges

Thapelo Tshole, CEO, Botswana Stock Exchange

Blockchain regulatory rigmarole - is the current environment facilitating innovation?

- Global initiatives do we need more international collaboration to develop appropriate policies?
- Stakeholder reaction are key market players, regulators and policymakers encouraging the development and integration of distributed ledger technology?
- Regulating the unregulatable how can regulators make sure they approach blockchain in a way

Rajeev Ranjan, Special Policy Advisor, Federal Reserve Bank of Chicago

12:40

2:00

Networking Lunch

Connectivity and Latency Management

Panel: Ultra-low latency connectivity - how is the game of speed changing in today's automated trading environment?

- Cloud & carrier neutral co**location** – selecting the right connectivity for your firm
- Fiber vs. microwave vs. millimeter wavelength comparing and contrasting new developments in network connectivity
- **Benefits beyond latency** how can you parlay low latency into high trading intelligence?
- Network monitoring solutions, methods and technologies for identifying trends, detecting outliers and correcting excessive latency and jitter in real time
- How can you accurately measure latency and jitter in a microsecond-sensitive ultra-low latency networking environment?
- Next-generation data centers - open infrastructure, software-defined technologies and automation

John Robison, CEO, Cape City Command

Machine Learning

Apache Spark – core statistics and machine learning models

- What are the key tenets of Spark's distributed computing framework?
- Building statistical and machine learning applications using Apache Spark
- Applying and scaling algorithms to solve enterprise big data challenges

How and when machine learning methods can be applied to automated trade decisions

- How to extract relevant features from level II exchange data and apply machine learning methods to predict near-term directional price movements using scikit-learn and Pandas
- How to create and perform simple backtests of trading strategies How to navigate the engineering
- challenges of creating production grade machine learning-based strategies

Matthew Dixon, Assistant Professor of Finance, Illinois Institute of Technology

Blockchain Risks and Rewards

The dark side of decentralization - what are the hidden risks in a blockchain revolution?

- Consumer protection combating fraud, theft, counterparty default and other risks in the absence of a central authority
- Volatility exposure safeguarding against extreme price fluctuations without a central bank and/or other means of economic stabilization
- **Enforcement** how can regulatory bodies enforce rules and standards in a decentralized environment?

Bryant Nielson, Executive Director, **The Blockchain Academy**

Accelerating blockchain's performance – current limitations and promising directions

- Accelerating distributed synchronizations and mining operations across blockchain applications
- Effective splitting of functions and computational loads between hardware substrates and software
- Vertical automata partitioning across blockchains' implementation layers for scalable throughput
- Leveraging proven, massivelyparallel, concurrent computing technologies for blockchain performance

Mehmet Yanilmaz, Partner, Myra Trading

Microwave lines - a review of the latest developments

- Improving regulation through transparency and complexity reduction
- More routes? What to expect
- Methods of ensuring reliability

Stephane Tyc, Co-Founder, McKay **Brothers**

Implementing deep learning algorithms to forecast market

- What are deep neural networks (DNNs) and how has their predictive power been harnessed in the speech transcription and image recognition communities?
- How has the computational complexity of DNNs hindered its adoption to predicting behavior in the financial markets?

How is innovation driving change to the capital markets intermediary?

- Regulatory impact how are new rules impacting stress testing, trading, clearing, settlement and other business functions?
- New blood assessing the proliferation of dark pools and multi-asset trading venues

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• How can the algorithm be effectively deployed on general purpose high-performance infrastructure?

Gaurav Chakravorty, Co-Founder, qplum

• The blockchain effect - how will the maturation of distributed ledger technology impact financial intermediaries?

Could it actually render obsolete the need for a third-party "trust provider" for transactions? • Short & long-term outlooks how will the intermediary add value in 2017, and in the more distant future?

David Rutter, Founder & Managing Partner. R3CEV

3:10

Afternoon Networking Break

3:30

INTERACTIVE ROUNDTABLES

- Robo-advisors threat or opportunity to traditional asset management?
- Java programming for quantitative finance
- Docker and containerization
- Backtesting in the cloud securely and at scale
- Permission vs. permissionless blockchain
- Best practices for assessing and responding to real-time market data quality in latency critical trading systems David Taylor, CTO, Exegy
- Non-traditional data & AI how to leverage unstructured data sourced for alpha generation for market and

Vikram Mahidhar, SVP, Semantic Intelligence Solutions, RAGE Frameworks

Big Data Infrastructure & Architecture

Panel: Enterprise data management - how are you applying innovative technologies to streamline and modernize the information lifecycle?

- Warehousing & integration
- best practices for building an enterprise data warehouse and unifying data management across different IT teams and departments
- **Standardization** what are the benefits of a common industry language, or financial Rosetta Stone, on operational efficiency and regulatory reporting?
- **Storage** deploying cloud servers and software-defined data centers to maximize storage efficiency and scalability; maintaining storage requirements to accommodate new data sources and exponentially growing data volumes

Data Analytics, Risk & Returns

Data visualization - charts, graphs and tools to facilitate pattern detection in large data sets

- Real-time insights how can traders use visualization technology to aid in real-time pattern discovery and outlier detection?
- Lower risk & higher returns how are forward-thinking firms using visualization platforms to mitigate risk and maximize returns during the pre-trade, intra-trade & post-trade processes?
- Middle & back office **applications** – how can visualization techniques enhance portfolio/risk management, regulatory compliance and other operational functions?

Smart Contracts & **Digital Currencies**

Smart contracts - what's the deal?

- Establishing a definition can "smart contracts" simply be defined as a piece of software stored, verified and executed on the blockchain?
- **Use cases in finance** is clearing and settlement the most promising domain for smart contract automation? What about digital wallets? Loans? Escrow?
- Adoption challenges legal/ regulatory considerations, integration into business ecosystem, lack of standards/ best practices
- When should companies use blockchain-enabled smart contracts instead of existing technology?

Susan Ramonat, Chief Risk Officer & Blockchain Program Lead, **SEI** Investments

- **Governance** how to design an effective data governance strategy for managing regulatory risk and meeting compliance demands
- Roadblocks data quality issues; integrating big data technologies with legacy IT infrastructure
- Transaction cost analysis **(TCA)** – why have performance measurement solutions for post-trade, intra-day and realtime cost analysis become so vital to the trade lifecycle?
- Capturing, cleansing, storing and analyzing cross-asset and cross-geography data for alpha discovery in turbulent market conditions
- **Vendor relationships** the build vs. buy puzzle and working with your provider to improve performance, capacity and cost efficiency

Tim McKnight, Application Delivery CTO, UBS Asset Management

Peter Nabicht, Principal, PFN Consulting

Louis Lovas, Director, OneMarketData

FinTech Education - leveraging technology to understand finance, analytics, and data in theory and

- **Say it** (Ying & Yang) hardcore math made easy
- **See it** (Visualization) voicedover simulations as opposed to lecture recording
- **Do it** (Interactive computing) live data, cloud-based computing, hosted editing for on-the-fly replication
- **Share it** (Community) slide neutralization, feedback looping
- Frame it (Cross-linking) multimedia interconnectivity, spoketo-hub architecture

Attilio Meucci, Chief Risk Officer, KKR

Algorithmic trading of digital currencies – untapped alpha for prop firms?

- **Prevalence** how much current volume is created by automated strategies?
- Developing a trading strategy - what works best?
- Digital currency markets vs. traditional markets - liquidity, execution, trading fees

Panel: Re-thinking IT infrastructure for latencysensitive trading - compute, storage and networking

- **Compute infrastructure** batch vs. stream processing, Apache Storm, Map4
- Storage infrastructure cluster computing, in-memory computing
- NoSQL/NewSQL databases -Hadoop, Spark, MongoDB
- Process externalization & the **cloudification of trading** - how should your IT department respond to the "everything asa-service" (XaaS) revolution?
- High-performance and **overclocked servers** – custom hardware-based solutions for extreme low latency, highfrequency and bandwidth

Mark Granzow, Senior Technology Officer, **BMO Capital Markets**

Patrick Scateni, Vice President, CIARA **Heath Hutchinson, Director, Supermicro** Adam Honore, CEO, MarketsTech

Panel: Risky business – how are top quant funds managing, modeling and measuring risk?

- How are portfolio managers accurately assessing risk as modern markets become increasingly complex and volatile?
- How can you leverage nextgeneration data management and analytics tools for providing an integrated view of portfolio risk exposure across time horizons and asset classes?
- Risk modelling how can new validation tools be applied to ensure accuracy?
- Predictive analytics how are you using predictive tools to measure risk?

Euan Sinclair, Partner, Talton Capital Management

Brian Miller. Head of Ouantitative Research & Strategy, **Optimized**

QSF Capital Management

Carl Hopman, Director of Quantitative Research, **Perot Investments** Boris Albul, Chief Investment Officer.

Panel: Beyond Bitcoin illustrating the landscape for emerging and established digital currencies

- Market size, growth, competition & composition
- with the cryptocurrency market exceeding \$10 billion in 2016, what are the growth expectations in 2017 and 2018?
- Comparing & contrasting cryptocurrencies - mining requirements, exchange rates, market cap, payment applications, anonymity and other special features
- Bitcoin alternatives will alternative currencies like Litecoin and Ripple challenge Bitcoin's dominance?

Bobby Cho, Digital Currency Trader, DRW **Trading Group**

Tommi Vuorenmaa, Proprietary Trader & Blockchain Expert

Ezra Galston, VC, Chicago Ventures Edward Weinhaus, Managing Director, AdvisoryFX

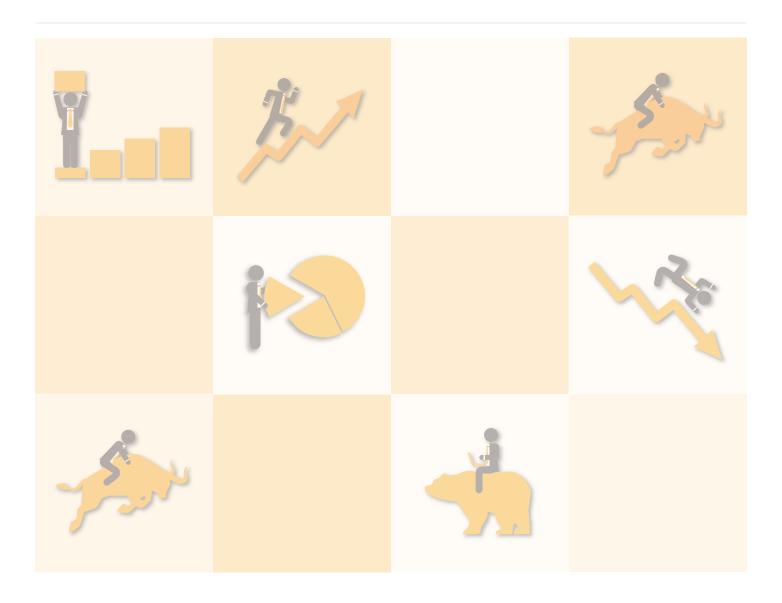
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Surviving disruption - an actionable guide to investment success in the era of FinTech

- Robo-advisors current state and future evolution
- Adaptation for traditional advisors how can human financial advisors use evolving regulations, customer demand and technology to optimize their business processes and operations?
- Gamification how it can produce better investors?
- New normal to what extent is financial technology innovation fundamentally changing the rules of investing? Where is current technology best utilized in new-age investment management?

Paolo Sironi, Author, FinTech Innovation: From Robo-Advisors to Goal Based Investing and Gamification

End of Conference Day 1





Breakfast & Registration

Chairman's Opening Remarks

Disruptive Products, Platforms & Business Models

High-performance computing and algorithmic trading - how will new breakthroughs in advanced computer science change the game? (topic to be updated)

- How can we define the use of HPC using common patterns drawn from computer science and finance?
- · How can we use these patterns to improve the applicability of existing research, facilitate the genesis of new research and increase system capability/throughput?
- Examining HPC use cases, bottlenecks and engineering solutions across market data, pricing, market surveillance, portfolio optimization, strategy backtesting, pricing and risk

Brian Peterson, Partner & Head of Algorithmic Trading, DV Trading

Trading the Trump factor - a new source of portfolio alpha?

- Measuring the relationship between Trump's Twitter sentiment, the overall market mood, and the short and longer-range price and volatility impact on companies, currencies, and nations
- Will it be a viable strategy to develop algorithms designed to take advantage of short-term price discrepancies caused by a presidential tweet?
- Presidential tweet risk what unintended consequences might emerge as a result of Trump's penchant for Twitter?

Efrem Hoffman, CEO & Founder, Running Alpha Investment James Koutoulas, CEO, Typhon Capital Management

Jeff Weniger, Director, Senior Strategist, BMO Wealth Management

Julie Dixon, President, Titan Regulation

Morning Networking Break

Pricing, Valuation & Portfolio Construction

Trend, carry and hedging premium

- Why carry is a significant component of trend
- Conditioning trend signals on basis improves performance
- · Trend following correlation to hedging premium vs. carry correlation to hedging premium

Marat Molyboga, Chief Risk Officer, Efficient Capital Management

Global macro indicators for predicting broad market volatility

- Two rules for forecasting volatility tomorrow's volatility is the same as today's and long-term volatility will be what it has always been
- Fed-induced schizophrenia the impact of central bank policy on market fits and tantrums
- Geopolitical events how will the incoming Trump administration impact the market's fear gauge?

Euan Sinclair, Partner, Talton Capital Management

Automation & Real-Time Intelligence

"Automating the macro narrative" – how all types of traders and investors can approach automating operations, analytics, and execution

- Analytics case study about how John automated his market analytics through both off-the-shelf products and custom built applications
- Operations how John reconciles brokerage statements, expenses, and P&L attribution across multiple strategies and multiple accounts
- Execution the process to automate some or all of your execution through off-the-shelf software applications or building your own proprietary execution software
- **Seven Steps** to build a proprietary software application

John Netto, Cross-Asset Trader & Author, The Global Macro Edge: Maximizing Return Per Unit-of-Risk

11:40

Five serious option trading mistakes and their solutions

- · How to create and manage specific directional option trading strategies for both short term and long term timeframes
- Establishing specific trading guidelines, profit and risk management objectives to enable consistent reactions to the market
- A proprietary approach to Behavioral Japanese Candle trading techniques

Daniel Gramza, President, Gramza Capital Management

12:00

The value of microsecond – an analysis of the information flows within the New Jersey equity triangle (BATS, NASDAO, NYSE) (topic to be updated)

- Tick data analysis of the trade-trade response between exchanges
- What exchange drives the majority of price formation within the equity triangle?
- The value of a microsecond on a per route basis, calculated both for latency and highest availability

Mike Persico, Founder & CEO, Anova Technologies

Networking Lunch

3:30

INTERACTIVE ROUNDTABLES

- Anomaly detection
- Market surveillance
- Compute vs. storage in your infrastructure stack
- Grid vs. cluster computing
- Database models comparing and contrasting NoSQL, SQL and NewSQL
- Using Cassandra, MongoDB and others for tick data storage
- Supervised vs. unsupervised deep learning
- OpenStack
- Trend following for managed futures best practices for capturing alpha Glenn Graham, President & CIO, Golden Point Capital Management

Afternoon Networking Break

Market Structure, Regulation & GRC

3:10

Market structure and regulation in the futures and options market

- How will the proliferation of new trading venues affect your trading strategy?
- How will current and future regulation, i.e. REG-NMS, Order Protection Rule, Access Rule, Sub-Penny Rule, address predatory automated, high-frequency trading strategies?
- How are the nuances of modern market microstructure affecting volatility and liquidity across asset classes?
- The latency barrier and its impact on achieving best execution have the markets sacrificed fairness for speed?

Serhan Kovuk, Managing Member, LaSalle Trading Group

Regulation AT – how would the CFTC's landmark proposal affect proprietary traders, market fairness and systemic risk?

- How would the CFTC and other government agencies use proprietary source code obtained from automated traders to reduce the likelihood of "flash crashes" and other harmful market disruptions?
- Do the potential benefits justify significantly lowering the bar for government access to intellectual property?
- How will regulators protect source code from hackers and cyber-breaches?
- How would market participants, particularly smaller ones, handle the higher compliance costs created by Reg AT's increased risk controls, reporting demands and recordkeeping requirements?
- How should exchanges and trading venues be involved in the oversight process?

Nancy Stern, EVP & General Counsel, Allston Trading

Programming & Software Development

Using Python for financial data analysis

- Python basics development environment and scientific libraries
- Data management connecting your Python-based trading strategy to the big data ecosystem
- Research process the nuts and bolts of building a quantitative trading strategy using Python

Yam Peleg, Founder, Deep Trading

End of Conference



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WHO YOU WILL MEET?

Trading Firms, Quant/Hedge Funds, Banks, Global Exchange Groups

- CTO's
- Head Traders
- Portfolio Managers
- Financial Engineer's
- Network Architects
- CIO's

WHO SHOULD SPONSOR AND EXHIBIT?

- Data Providers
- Hardware
- Software
- Brokers
- Connectivity Providers
- Exchanges/Trading Venues
- Big Data Vendors
- Quant Model/Risk
- Cyber Security
- HPC Vendors

THE TRADING SHOW

CHICAGO 2017



	Company	No	Company
100	McKay Brothers/ Quincy Data	121	SAFTehnika,
101	BSO	122	Solace
102		123	E-Band Comm
103		124	Vela
104	euNetworks	125	University of (
105	DDN Storage	200	Anova Techno
106	SigOpt SigOpt	201	Supermicro N
107	BlackCore Technologies	202	Cape City Con
108	Rage Frameworks	204	Solarflare
110	Aldec	205	tecnologika U
112	Cielo Networks	206	Networks Nag
114	Avelacom	207	
116	Exegy	208	
118	Netcope Technologies	300	Algo-Logic
120	LDA Technologies	301	Datawatch

400

ENTRANCE

No	Company
121	SAFTehnika, JSC
122	Solace
123	E-Band Communications
124	Vela
125	University of Chicago
200	Anova Technologies
201	Supermicro NovaSparks
202	Cape City Command
204	Solarflare
205	tecnologika USA Spread
206	Networks Napatech
207	
208	
300	Algo-Logic
301	Datawatch

No	Company
302	Penguin Computing
303	International Computer Concepts
304	Bright Computing
305	CIARA
306	Metamako
307	Avere Systems
309	RAID Inc.
311	ENYX
313	McObject
314	Key20ptions
315	OneMarketData
316	Vertica
317	Acquire Media
318	ITRS

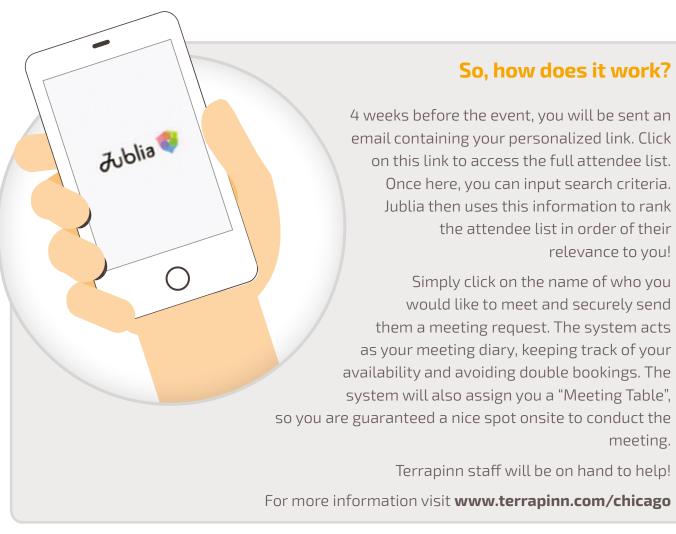
No	Company
319	Global Financial Data
320	Nadex
321	Titan Regulation
322	
323	Commodity Futures Trading Commission
324	BIOS IT
325	NAG
100	
102	Reserved
104	TMX
105	
106	Trading in Chicago
108	Grupo Financiero Interacciones

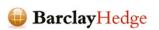
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ATTEND

Join quantitative finance legend **Bob Litterman** as he discourses on how to appropriately price mankind's greatest risk management problem --- carbon emissions

Debate how a Donald Trump presidency, and his penchant for Twitter, could impact the markets and your trading strategy with Alpha Running Investment, **Typhon Capital Management** and **BMO Wealth Management**

Explore the current framework for market structure and regulation in futures and options from Serhan Kovuk, Managing Member from LaSalle Trading **Group,** Nancy Stern, EVP for Allston Trading and other experts in the regulatory food chain

Join Alphacution Research Conservatory, Budo Group and Capitalogix Trading for insightful discourse on how nontraditional data from emerging sources like nanosatellites, drone imagery and Internet of Things, could be applied to capture alpha

Journey through the trade lifecycle as Myra Trading leads a discussion alongside **Belle Curve Capital** and **Saffron Trading Group** on achieving best execution in today's technologically advanced landscape of broker algorithms, liquidity sources and evolving market structure

Take the distributed ledger debate to the phase two as **SEI** Investments, The Blockchain Academy, R3CER and other frontline experts explore regulation, decentralization, consumer protection and the genesis of a new financial system during a would-be blockchain revolution

Get a crash course on all things digital currencies as experts from **DRW Trading and AdvisoryFX** give their insights on whether this nascent asset class holds untapped alpha for proprietary traders

Browse through the expo hall and discover the next-generation trading technology solutions from world-class vendors like NAG, NovaSparks, xCelor, Bright Computing, Exegy, Penguin **Computing** and many more

Learn how to survive in the new democratized world of finance shaped by robo-advisors, automation and data analytics with Paolo Sironi, accomplished author and global authority on investment innovation

10.

Soak up the mathematical genius of **Bill Chen**, professional card player and Head of Statistical Arbitrage at **Susquehanna International Group**, as he draws a common thread between poker, game theory and trading







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