

BREAKFAST/REGISTRATION: 8am-9am

PROGRAM START: 9am

WELCOME ADDRESS (Peter Diamandis, Will Weisman) Welcome and Introduction to Exponential Technologies

TOPIC

SESSIONS

ARTIFICIAL INTELLIGENCE

AI capabilities are exploding and the increasing implications to finance are enormous. With a very real potential to create dramatic disruptions for Wall Street and many Fortune 500 companies, AI will kick off the Exponential Finance conference. AI is now over 50 years old, and is embedded in everyday life. Applications include: medicine, engineering, art, transportation, logistics and finance. High frequency trading algorithms use a form of artificial intelligence to execute buy and sell orders in fractions of a second. As AI advances and computing moves into the quantum realm, such algorithmic trading may become even more prominent. The technology has the potential to make markets more efficient—or more volatile. We will explore these issues and more while providing you with a clearer understanding of how AI will become an increasingly important part of the world of Finance.

Understanding the AI Landscape (Neil Jacobstein)

Singularity University's Co-Chair on AI Neil Jacobstein will discuss how businesses, financial institutions and individuals are utilizing AI to address credit risk analysis, investment decisions, sentiment analysis, high frequency trading and avoiding corporate/market flash crashes. Neil will also provide an overview of AI—from 50 years of successful AI applications to augmenting humans with AI—and what this means for the world at large.

Will IBM's Watson & Other AIs Overtake Wall Street? (Michael D Rhodin)

This fireside chat with Michael Rhodin of IBM will explain how Watson has moved beyond Jeopardy into finance, and what this and other AI solutions mean for Wall Street. Specifics include: The Watson Applications Ecosystem; Automating finance sector jobs; Role of AI on global financial centers; and the future of Watson.

Is AI Your Enemy or New Best Friend? (Daniel Nadler)

Daniel Nadler describes the virtual artificially intelligent, financial industry-focused assistant that his company, Kensho, is creating. Why is this possible now for the first time, and what will this mean for the playing field in five years' time? This high-level conversation will cover the implications of these Virtual AI Assistants—from the labor market to risk management to financial advisors.

BREAK

TOPIC

SESSIONS

DATA SCIENCE/DATA ANALYTICS

Advances in big data analysis may change the way analysts do their job, augmenting or replacing spreadsheets with intelligent analytics software that can harvest key insights from the daily deluge of financial and economic data or keep a watchful eye on consumer behavior and activity to prevent fraud.

The Data Science Revolution (Jeremy Howard)

Data science (big data, data analysis, machine learning) is said to represent a larger potential disruption than the industrial revolution. In this session, former president of Kaggle, data strategist at Khosla Ventures and distinguished research scientist at USF, Jeremy Howard will address the impact on the financial world from data driven decision-making, predictive modeling, machine learning, intelligent computing and more.

Harvesting Gold from Your Data—Finally! (Keith Collins)

Fireside chat with Keith Collins, CIO of SAS. What applications are available now and will be available in the future to assist in making the most of your data? How do you differentiate between relevant/representative data and "big" data?

Disruptive Tools In The Data Science Toolkit (Dr. Gurjeet Singh)

Gurjeet Singh of Ayasdi, named Fast Company's 2014 Most Innovative Company in Big Data, addresses the cutting edge of big data and how machine learning/big data is and will be used in business going forward.

Will The Robo-Advisors Take Your Job? (Peter Diamandis, Ric Edelman)

A conversation between Peter Diamandis and acclaimed financial advisor Ric Edelman. The discussion will focus on the future of the financial advisory business and how Ric sees exponential technology changing his business and the overall landscape.

LUNCH

TOPIC

NETWORKS & COMPUTING SYSTEMS

Breakthroughs addressed during this topic will highlight the rapidly shifting networks and computing systems landscape, and the trillions of dollars of disruption that these changes will bring over the coming decade. Sessions will cover: breakthroughs in computer processing; the enormous impact of autonomous vehicles; optimized asset allocation using quantum computing; arbitrage opportunity discovery; and more.

SESSIONS

The Global Evolution of Networks and Computing Systems (Brad Templeton)

As processing power continues to grow exponentially, as trillions of devices and sensors come online, and as technology costs continue to decrease dramatically, we are entering an era of new possibilities. In this session, Board Member of the Electronic Frontier Foundation (EFF), founder of the first internet-based business, and Networks & Computing Chair for Singularity University, Brad Templeton will dive into Moore's Law, abundant bandwidth, the trillion-dollar impact of autonomous vehicles, the network of everything, and more.

Living in a Virtual World (Philip Rosedale)

As we saw with the recent \$2B acquisition of Oculus Rift, virtual reality (VR) is big business. In this session, Philip Rosedale, one of the pioneers of VR, as well as the creator of Second Life and CEO of his latest venture, High Fidelity, will take us through why VR has the potential to have such an outsized impact over the coming decade. Learn how virtual reality will change almost every aspect of our life, such as: how we interact with others, how we learn, how we conduct business, who we are friends with, and where we spend our free time.

Quantum Computing: A Threat to Financial Services? (Vern Brownell)

As the former CTO of Goldman Sachs, Vern Brownell understands the technical challenges facing large financial institutions. He'll share his unique perspective as the head of the leading quantum computer manufacturer, D-Wave, to provide an understanding of quantum computing and its radical impact on present and future computing.

Insights from the World's First Quantum Computer Software Company (Dr. Phil Goddard)

By harnessing the power of quantum mechanics, quantum computers offer the potential to solve extremely large-scale optimization problems faster than traditional computers. Dr. Goddard will provide us with insight into some of these problems that are now becoming addressable with a particular emphasis on the financial world.

TOPIC

3D PRINTING

3D printing is creating entirely new industries. Major advancements in the last year alone have redesigned supply chains, impacted IP and liability issues, and reduced working capital needed to fuel manufacturing, not to mention innovation.

SESSION

The Imminent Disruption of the \$10T Manufacturing Industry (Avi Reichental)

With applications ranging from cars, décor and consumer products to custom implants, jet engines and hearing aids—3D printing is revolutionizing product design and supply chain management, and opening a world of possibilities for creatives. There is growing interest in using the technology in direct manufacturing: In the last two years, the technology has become available to consumers, finding its way into homes, middle schools and garages through 3D printers and cloud printing. This talk will also touch on the potential unintended consequences of 3D manufacturing technology, such as fraud and 3D printed weapons.

BREAK

TOPIC

SESSIONS

DIGITAL MEDICINE

Technology is allowing humans to live much longer and much healthier than ever before. These advances will cause (and are causing) huge disruptions across multiple businesses—from life insurance to retirement to gene privacy to asset allocations.

Digital/Synthetic Biology (Raymond McCauley)

The digitization of biology is driving massive disruption in the life sciences field. Human genome sequencing is the single best example of faster, better, cheaper. Previously confined to research tools, these new solutions are now entering the clinical and consumer markets. This session will shine light on the drivers in this field, new business models, where technology costs are trending, and innovative startups that have the potential to be significant disruptors.

The Technological Disruption of Healthcare (Dr. Daniel Kraft)

Convergence of fast-moving technology is rapidly changing the face of health and medicine. From mobile health and wearable sensors to artificial intelligence and personal 'omics, this talk will explore implications for personal health, workforce health and the corresponding areas of emerging investment opportunity.

TOPIC

SESSIONS

CAPITAL FORMATION

Many new ways of sourcing capital have arisen as the result of technology and have the potential to bypass existing incumbents. We're in the early days of this disruption and we will address what these new ways of raising capital mean for investors, brokers and regulators, and what other types of innovative finance are on the horizon.

Innovations in Capital Formation (David Rose)

David Rose, a serial entrepreneur and active angel investor in New York, as well as the founder and CEO of Gust, will share his insights on the rapidly evolving world of capital formation—from crowdfunding to peer-to-peer lending to the growth and rebirth of equity capital markets. David will illustrate how it's never been easier to raise capital and why these new innovations create significant threats, as well as opportunities, for incumbents and startups alike.

The Global Explosion of Crowdfunding (Chance Barnett, Luan Cox, Katie Fitzgerald; Moderated by Kay Koplovitz)

Kay Koplovitz leads a panel discussion addressing how crowdsourcing models are impacting and disintermediating traditional capital sources. Participants include industry experts Chance Barnett of Crowdfunder, Luan Cox of Crowdnetic, and Katie Fitzgerald of CircleUp.

Innovative Regulations: Not an Oxymoron (David Weild)

The "Father of the JOBS Act," David Weild will offer insights into what Congress, the SEC and other regulatory groups are doing to keep America competitive and foster innovation.

Closing: DR. PETER DIAMANDIS

DINNER

GENERAL PARTICIPANTS: DINNER and NETWORKING ON YOUR OWN.

VIP ATTENDEES: DINNER (7:00pm- 10:00pm)

BREAKFAST (7:30am-8:30am)
PROGRAM START: 8:30am
DAY 1 SYNTHESIS & DAY 2 OVERVIEW

TOPIC

SESSIONS

ROBOTICS

New developments in robotic technologies open up many doors for businesses that embrace them, and will hurt many companies that don't. Robots have the potential to completely remake the U.S. and global labor force. Discover what sectors are being disrupted by robotics, as well as the implications on demographics, the labor force, deflationary risks and the impact on insurance/liability demands.

Robots: Changing Everything (Rob Nail)

Singularity University CEO, Rob Nail will provide an overview of robotics technology, the far-reaching impact this technology is having throughout the world, and how what is coming will change business globally. As robotics use accelerates, many branches of the financial world will change. In this session we'll address: Why companies like Google are making massive bets on robotics; major labor force implications; machine to machine payments; and insurance and liability issues.

Around The World In 80 Seconds (Scott Hassan)

In this talk, Scott Hassan, CEO of Suitable Technologies, will "beam" around the world in 80 seconds, hopping between continents and traveling across time zones—instantly. Scott will demonstrate how to fulfill the need for shared awareness with other people, places and things.

BREAK

TOPIC

SESSIONS

DIGITAL CURRENCIES, SMART CONTRACTS & MORE

This topic will provide a glimpse into what's next in the world of digital commerce and finance by taking a look at Bitcoin and other digital currencies. We will also cover digital derivatives, smart contracts, wire-based settlement, cross border payments and peer-to-peer banking—all of which are experiencing dramatic change driven by new technologies.

The Transformative World of Digital Commerce and Finance (Staci Warden)

Executive director of the Center for Financial Markets at the Milken Institute, Staci Warden provides an overview of digital commerce and how this emerging area has the potential to radically change how we bank, how payments are made, what a trusted transaction means, and more.

Insights From The Leading Edge: The Evolving Digital Commerce Ecosystem (Bill Barhydt, Austin Hill, Barry Silbert; Moderated by Staci Warden)

As Bitcoin and other alternative currencies capture our imaginations, new possibilities for digital commerce and financial services are emerging. This panel provides a glimpse into how new opportunities, such as digital derivatives, smart contracts, wire-based settlements, cross border payments and peer-to-peer banking, are being enabled by new technologies. The session will also offer insights into what's next in the world of digital commerce and finance. Moderated by Staci Warden, participants include luminaries Bill Barhydt of BOOM Financial, investor/entrepreneur Austin Hill and Barry Silbert of SecondMarket.

KEYNOTE: RAY KURZWEIL

Ray Kurzweil has been called "the restless genius" by The Wall Street Journal and "the ultimate thinking machine" by Forbes magazine. In his role as a Director of Engineering at Google, Kurzweil heads up a team developing machine intelligence and natural language understanding. During this keynote he will share his thoughts on accelerating technology with a particular focus around artificial intelligence and machine understanding.

VIEWS FROM THE TOP: Fortune 500 CEO Panel (Moderated by Michelle Caruso-Cabrera and Vivek Wadhwa)

Large incumbents are increasingly threatened by new innovations and the quickening pace of change. Many ventures that used to require a large multinational company can now be successfully pulled off by a few individuals. In this panel discussion we'll hear from CEOs of Fortune 500 companies on how they manage Wall Street's focus on quarter-to-quarter earnings while investing for the future—all while their industries are going through significant change.

LUNCH

TOPIC

FINANCIAL FUTURES

These sessions will address challenges and opportunities facing the finance industry due to the growing influence of exponential technologies.

Bankers Beware: Embrace Exponential Technologies or Face Extinction (*Garry Lyons, Ben Milne, Jay Sidhu, Elliot Weissbluth; Moderated by Michelle Caruso-Cabrera*)

Exponential technologies are presenting a 360 degree assault on every part of the banking business. It couldn't come at a worse time, as the industry tries to respond to regulatory pressures and rebuild trust in the wake of the financial crisis and great recession. Hear from emerging leaders— Elliot Weissbluth, CEO of HighTower Advisors; Jay Sidhu, CEO of Customers Bancorp; Ben Milne, CEO of Dwolla; and Garry Lyons, Chief Innovation Officer of MasterCard—who are all bent on transforming the banking experience by embracing accelerating technologies and new business models.

Exponential Investing: The Long And Short of Trading the Future (*Ed Maguire, Ben Ruegsegger; Moderated by Bob Pisani*)

CNBC's Bob Pisani talks with Ed Maguire, Senior Technology Analyst at CLSA, and Ben Ruegsegger, Senior Thematic Analyst for AllianceBernstein's Global and Thematic Portfolios. They will discuss how investors get exposure to technology trends early in the cycle, as well as the tricky business of investing in "valley stocks" (publicly traded stocks with large maturing businesses) and small-growth businesses not yet large enough to have major impact. Key topics include: how to judge the maturity of an industry; how to determine the future value of a new technology; what opportunities exist for investing now in "maturing" disruptive technologies like genomics, big data, and the internet of things; the critical importance of early legwork; and how to anticipate and judge investment "bubbles".

BREAK

TOPIC

SESSIONS

CYBER SECURITY & BEYOND

Bio hacking, identity theft, malicious innovations—how will crime be defined in the era of exponential technologies? What do you, your business, your country need to know in order to not be vulnerable to malicious innovations?

Malicious Innovations: The Future of Crime & Security (*Marc Goodman*)

Founder of the Future Crimes Institute, Leading Cybercrime Consultant for the FBI, and Singularity University's Faculty Chair for Policy, Law & Ethics, Marc Goodman explores cybercrime threats from the digital underworld. This session will specifically explore many of the innovations that directly impact large, global financial services companies.

TOPIC

SESSIONS

EXPONENTIAL ORGANIZATIONS

We cover how to think differently and evolve your organization and business model to thrive as the pace of change quickens.

Exponential Organizations: The New Breed of Business (*Salim Ismail*)

For hundreds of years, traditional business structures have put an organizational/legal boundary around an asset or a workforce and "sold" access to that scarcity. However, just in the last few years, a new breed of organizational structure is emerging that is able to scale at unimaginable rates. We call these Exponential Organizations. In this talk, successful entrepreneur, renowned speaker and Singularity University's global ambassador, Salim Ismail will take you through this new breed of organizational structure that is setting a new bar for businesses big and small.

KEYNOTE: JAY ROGERS

Crowdsourced car designs, micro factories, small batch production: Local Motors has definitely gone a very different route for a vehicle manufacturing company. In this keynote speech by Local Motors CEO Jay Rogers, we'll hear about his journey to create this different kind of company—an exponential one. Understand how he has created this highly successful organization and utilized some of the principles that Salim Ismail touched on in the previous session.

CLOSING REMARKS**CLOSING RECEPTION (7:00pm-11:00pm)**