FiRe 2022

Future in Review 2022 • Feb. 28 – March 4

Technology Driving a Brighter Future

Monday, February 28

The New Future in Review

| 9:00am - 10:00am | **Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO* **Berit Anderson** Strategic News Service *COO* | |

Solve for Ocean: Technologies Addressing Challenges to the Health of Marine Ecosystems
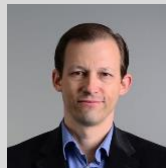
| 10:00am - 11:00am | **Aryé Elfenbein** Wildtype *Co-Founder & CTO* **John Delaney** University of Washington *Professor of Oceanography* **Moderator: Berit Anderson** Strategic News Service *COO* **Steve Sherman** BioLogiQ Inc. *CEO* | Our survival as a species depends on the health of marine ecosystems. Meet innovators who are leading the charge to protect the world's oceans. Understand the impacts of deep-sea mining, learn about the sushi of tomorrow, and meet the team transforming urban seas. |

Water-Level Critical: Anticipating Changes to Our Most Important Resource

11:00am - 12:00pm	**Peter Wadhams** University of Cambridge *Head of the Polar Ocean Physics Group, Department of Applied Mathematics and Theoretical Physics* **Moderator:** **Ed Butler** BBC *Business News Presenter*	**Dalia Kirschbaum** NASA *Chief of Hydrological Sciences Laboratory*	Explore cutting-edge research on the future of glacial melt, sea-level rise, and the global water supply. From NASA's most advanced sensors and satellites to Cambridge's field expert working on the glaciers of Greenland, hear what's really going on with the planet's most important resource.

Break 12:00pm - 12:30am

The Future of Diagnostics

12:30pm - 1:00pm	**Caitlin Cameron** OtoNexus Medical Technologies *Chair & CEO*	**Moderator:** Berit Anderson Strategic News Service *COO*	

How to End a Pandemic: A Centerpiece Conversation with Dr. Larry Brilliant

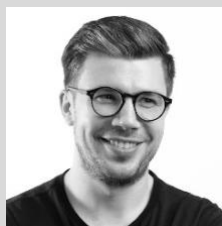| 1:00pm - 2:00pm	**Dr. Larry Brilliant** Pandefense Advisors *Founder & CEO and CNN Consultant* — **Moderator: Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO*	Very few people can claim to have been instrumental in the outright eradication of an infectious disease. As the world enters the third year of the novel coronavirus pandemic, Dr. Larry Brilliant provides answers to the most pressing questions on how to end a global pandemic and what comes next.

Tech Canceling Cancer

2:00pm - 3:00pm	**Feyi Olopade Ayodele** CancerIQ *Co-Founder & CEO* — **Anthony Chang** BAMF Health *Co-Founder &* *CEO* — **Emi Gal** Ezra *Co-Founder & CEO* — **Moderator: Esther Dyson** Wellville *CEO*	From gene sequencing to AI-enabled MRI and radiation therapy technology, meet the entrepreneurs changing the landscape of cancer for the better.

100% Renewable: A How-To Guide for the Grid

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3:00pm - 4:00pm	**Richard Romanowski** eleXsys Energy *Co-Founder &* *Executive Director* **Joernn Tinnemeyer** EnerSys *CTO* **Moderator:** **Berit Anderson** Strategic News Service *COO*	How do we transition the electricity grid to 100% renewable energy? Hear from the entrepreneurs and innovators driving the technology and policy that will make it happen.

The Influence of Biology in Chip Design: A Centerpiece Conversation with Carver Mead
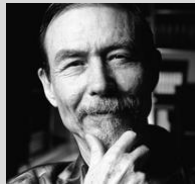
4:00pm - 5:00pm	**Carver Mead** California Institute of Technology *Scientist, Engineer &* *Professor Emeritus of* *Engineering and* *Applied Science* **Moderator:** **Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO*	Ever since helping to launch the age of chips, Carver Mead has dreamed of incorporating bio design into computing. He was right -- and now we can.

Hatty Hour

5:00pm - 6:00pm	In the age of Zoom, there's only so much opportunity for personal expression. Pants don't make the cut. So don your preferred topper and join us for "Hatty Hour" - a virtual Happy Hour designed to help you meet your fellow FiRe attendees, connect with FiRe speakers, and generally show off your fabulous hat game.

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Tuesday, March 1

AI in Defense & National Security

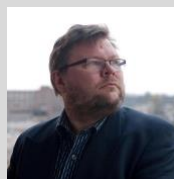|		
9:00am - 10:00am	**Angela Sheffield** NNSA *Sr. Program Mgr.,* *Proliferation Detection;* *Defense Nuclear* *Nonproliferation R&D* **Moderator** **Ed Butler** BBC *Business News* *Presenter*	Angela Sheffield directs the National Nuclear Security Administration's efforts to develop next-gen AI methods and technologies. Learn more about her work to detect early indicators of illicit nuclear weapons development and reveal insights about the sophistication of existing nuclear programs of other nations.

The Role of Cryptocurrency in Cybercrime
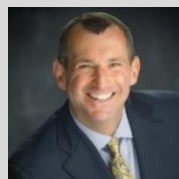
10:00am - 11:00am	**John Reed Stark** John Reed Stark Consulting LLC *President* **Harri Hursti** Nordic Innovation Labs *Co-Founder* **Moderator:** **Jody Westby** Global Cyber Risk LLC *CEO*	Learn about innovations in the use of cryptocurrency by cybercriminals, the challenges that presents to regulators and law enforcement, the consequences for business, and how to find a path forward.

## Workshop: How to Make Accurate Predictions

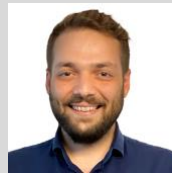| 11:00am - 12:00pm	**Evan Anderson** INVNT/IP *CEO*	To solve novel global issues, we must also be able to see them coming. Join Evan Anderson, INVNT/IP CEO and author of "Theft Nation" and the SNS "Viral Economy" series, in an interactive group workshop focused on honing skills in predictive analysis to better see the future.

Meet the FiReStarters: Companies Improving the World
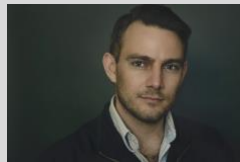
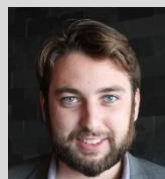| 12:00pm - 1:00pm	**Daniel Huss** gravityAI *CEO* **Onur Karaduman** DREAL *Co-Founder & CEO* **Krzysztof Appelt** RANDAEMON *CFO & Business Development Manager* **Richard Gustafson** PowerLight Technologies *President & CEO* **Bill Stone** AllClear Healthcare *CEO & Founder* **Moderator:** **Evan Anderson** INVNT/IP *CEO*	

AI at Exoscale on Global Networks

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1:00pm - 2:00pm	**Larry Smarr** California Institute for Telecommunications and Information Technology, UCSD *Founding Director* **Moderator:** **Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO*	The largest AI compute networks in the world today are not being made by Google or AWS. Rather, think Tesla, Starlink, the Pacific Research Platform, and many more.

Computational Health
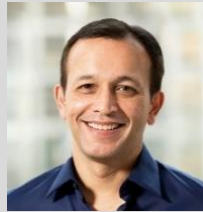
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2:00pm - 3:00pm	**Rajeev Singh** Accolade *CEO* **Mike McSherry** Xealth *CEO* **Sara Vaezy** Providence Digital Innovation Group *SVP, Chief of Digital Digital and Growth Strategy* **Moderator:** **Bill McAleer** Voyager Capital *Managing Director*	Digitization of healthcare is revolutionizing the way we connect patients and care providers. Join top innovators in computational health for a discussion of how the patient experience is evolving and where it goes next.

Whatever Happened to the Long Boom?
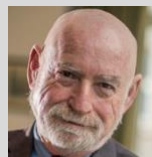
3:00pm - 4:00pm	**Peter Schwartz** Salesforce *SVP of Strategic Planning* **Moderator** **Eliot Peper** *Novelist / Strategist, Entrepreneur and Venture Capitalist*	

Visualization of AI

| 4:00pm - 5:00pm | **Chris Johnson**
SCI Institute,
University of Utah
Professor | **Moderator:**
Mark Anderson
Pattern Computer Inc.
Strategic News Service
CEO | |

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Western Security, Stability & Prosperity in Ukraine

8:00am - 9:00am		
	Oksana Markarova Ambassador of Ukraine to the United States.	**Alex Bornyakov** Deputy Minister of Digital Transformation of Ukraine
	Natalia Tkachuk Head of the Information Security and Cyber Security Service of the NSDC of Ukraine Staff	**Moderator: Aleks Mehrle** Andean Partners *Co-Founder*
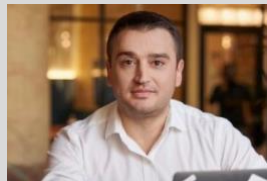
New Pattern Discoveries from Pattern Computer:
A Centerpiece Conversation with Mark Anderson

9:00am - 10:00am	**Moderator:** **Ed Butler** BBC *Business News Presenter* **Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO*	Five years ago, the BBC's Ed Butler interviewed Mark about his plans for using Pattern Computer to make Pattern Discoveries in many new fields. In this conversation, they will explore those already done and announce new discoveries that promise to change how we do science, with major impacts on healthcare and oncology, mining, manufacturing, new materials, aerospace, and finance.

Workshop: Driving Innovation Through Pattern Recognition

10:00am - 11:00am	**Mark Anderson** Pattern Computer Inc. Strategic News Service *CEO* **Meg Weber** Entrepreneurship and Innovation Program *Head Instructor*	Join Mark Anderson, CEO of Pattern Computer and Strategic News Service, for an interactive workshop designed to help leaders in technology, research, and business use key pattern-recognition skills to improve innovation in their organization.

Break 12:00pm - 1:00pm

Future of AI in Computational Biology

1:00pm - 2:00pm	**Daniel Jacobson** Oak Ridge National Laboratory *Computational Systems Biologist* **Moderator:** **Ben Brown** LBNL, *Deputy Director of Environmental Genomics & Systems Biology*	Daniel Jacobson will discuss the development of advanced computational science- and AI-based tools for better understanding the functional relationships -- as well as biosynthesis, signaling, transcriptional, translational, degradation, and kinetic regulatory networks -- at play in biological processes, especially as they pertain to improving the scientific and health enterprises.

Vision and Intelligence for Safe Autonomous Driving
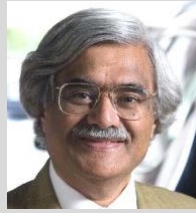
2:00pm - 3:00pm	**Mohan Trivedi** UC San Diego *Director, Laboratory for Intelligent and Safe Automobiles* **Moderator: Ken Kreutz-Delgado** Electrical & Computer *Engineering, UCSD Emeritus Prof. of Intelligent Systems & Machine Learning*	Mohan Trivedi, PhD, will discuss the importance of nonintrusive and human-centered autonomous driving for enhancing safety and describe lessons learned that are transferable to general domains for intent and behavior predictions of intelligent agents.

Tools for Building the Synthetic Biology-Based Economy

3:00pm - 4:00pm	**Eduardo Abeliuk** TeselaGen Biotechnology *Founder* **Moderator: Ben Brown** LBNL *Deputy Director of Environmental Genomics & Systems Biology*	Join Eduardo Abeliuk for a conversation about the importance of cloud-based collaborative tools for synthetic biology-based research and the development of advanced bio-products for medicine, science, and a new bio-based economy.

Robotics and Automation in Service of Society and Economic Well-Being

4:00pm – 5:00pm	**Henrik Christensen** *Director of Robotics, Distinguished Professor*, U CSD & *Co-Founder*, ROBO Global & Robust.AI **Moderator: Ken Kreutz-Delgado** Electrical & Computer Engineering, UCSD *Emeritus Prof. of Intelligent Systems & Machine Learning*	Prof. Henrik Christensen will discuss the key efforts needed to ensure that the US maintains a leadership position in the research, development, and deployment of robotic and autonomous systems; and strategic technologies critical for national security systems, transportation systems, healthcare systems, and next-generation manufacturing.

Investor Evening: Pattern Computer Discoveries

5:00pm - 6:00pm	For all friends and investors of Pattern Computer and all FiRe attendees: You are invited to a reveal of our latest pattern discoveries. An evening highlighted by the announcement of a new Explainable AI technology, the holy grail of all AI.	

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Thursday, March 3

Brought to you by BiologiQ

BioLogiQ

Defining the Metaverse

8:00am - 9:00am	**David Treat** Accenture *Senior Managing Director*	**Moderator:** Jim Louderback VidCon *General Manager & Senior Vice President*	

Greening Germany's Political Future

9:00am - 10:00am	**Sascha Mueller-Kraenner** Deutsche Umwelthilfe *Executive Director* **Moderator:** **Steven Sokol** American Council on Germany *President*	**Richard Teltschik** MdB Knut Abraham *Senior Foreign and Security Policy Advisor*	From foreign affairs to the environment, Germany is undergoing a deep shift. Germany after Merkel will help to define the next era of European leadership. Join top political minds from the continent's largest economy in a discussion of the changing political landscape.

Leading Through Fear

| 10:00am - 10:30am | **John Hagel**
 Beyond Our Edge LLC
 Founder & CEO | **Moderator:**
 Berit Anderson
 Strategic News Service
 COO | |

Break 10:30am - 11:00am

Catalogue Earth: Mapping the Planet's Microbiome

| 11:00am - 12:00pm | **J. Craig Venter**
 Synthetic Genomics
 Co-Founder, Chair, CEO, and Co-Chief Scientific Officer | **Moderator:**
 David Ewing Duncan
 Arc Fusion *CEO; and Science Writer* | The living Earth, like human beings 20 years ago, has never been genetically sequenced. Join legendary geneticist J. Craig Venter as he describes a massive undertaking to categorize the microbes that share our planet and identify the roles they play in shaping life on Earth. |

Contagion & Denial

| 12:00pm - 1:00pm | **Heidi Larson**
 The Vaccine Confidence Project
 Director | **Moderator:**
 Strategic News Service
 COO | Heidi Larson will talk about the power of emotions and beliefs in the COVID-19 response. Historic and current inequities breed distrust, which can fuel anxieties and fear around mass vaccination campaigns, while building trust can instill hope, compliance, and social cooperation. |

Defending the Planet from Asteroids and Solar Flares

1:00pm - 2:00pm		

Mario Juric
DiRAC Institute,
UW, *Director*

Nicola Fox
NASA HQ
*Heliophysics
Division Director,
Science Mission
Directorate*

**Moderator:
John Wells**
NPR *Producer
and Host*

Capturing Carbon: Neutral or Negative by 2050

2:00pm - 3:00pm		When it comes to carbon capture, we're running out of time. Hear from two top minds in capture about the roles that new materials, reforestation, and land conservation can play in helping us build a carbon-neutral (if not negative) society by the year 2050.

Grant Canary
DroneSeed
Founder & CEO

Moderator:
Andy Himes
UW, *Director
of Collective Impact CLF*

**Moderator:
Cynthia Figge**
CSRHub
CEO & Cofounder

Redefining the Cosmos: The Resonance Approach

3:00pm - 4:00pm		A few months ago, SNS published three new papers on Resonance Theory, suggesting that both Einstein and Hubble were wrong about the Big Bang. Today, even NASA is starting to agree.

Mark Anderson
Pattern Computer Inc. &
Strategic News Service
CEO

**Moderator:
David Brin**
Futures Unlimited
*Author, Scientist,
and Chief Visionary*

The Ministry of the Future

| 4:00pm - 5:00pm | **Kim Stanley Robinson** *Science-Fiction Author* | **Moderator: David Brin** Futures Unlimited *Author, Scientist, and Chief Visionary* | Kim Stanley Robinson's latest book, *Ministry for the Future*, explores a world in which a new global governing body is tasked with navigating global climate emergency. Join him and moderator David Brin for a conversation about what it would take to create such a thing and how to go about doing it. |

Apres-Feu Happy Hour

| 5:00pm - 6:00pm | | |

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Friday, March 4

Reductive Design & the Power of Less
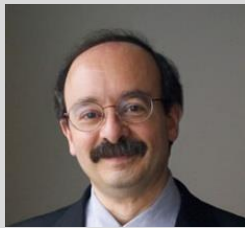
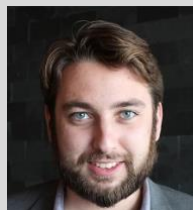|		
9:00am - 10:00am	**Amory Lovins** Rocky Mountain Institute *Co-Founder, Chair Emeritus, and (fmr.) Chief Scientist* **Leidy Klotz** University of Virginia *Copenhaver Associate Professor*	Every day, across challenges big and small, we neglect a basic way to make things better: we don't subtract. Amory Lovins and Leidy Klotz discuss the science of less and how we can use it to revolutionize our products and businesses and shift how we move through the world.

China & Disengagement

10:00am - 11:00am	**Josh Rogin** *The Washington Post Columnist* **Robert Atkinson** Information Technology and Innovation Foundation *President* **Moderator:** **Evan Anderson** *INVNT/IP CEO*	Now, with an ascendant autocrat and an increasingly aggressive stance, China is waging a hybrid war against those who would oppose its vision of the future. Global democracies must stem the tide of corporate capture, economic warfare, and influence campaigns emanating from Xi Jinping's new China. To do so, an intelligent, strategic policy of disengagement will be necessary. What will it look like?

Future Hybrid Warfare Encounters

| 11:00am – 12:00pm | **Paul Wolfowitz** Former US Deputy Secretary of Defense | **Moderator Mark Anderson** Pattern Computer Inc. & Strategic News Service *CEO* | |

Closing Wrapup & Comments

| 12:00am - 1:00pm | **Mark Anderson** Pattern Computer Inc. & Strategic News Service *CEO* | **Berit Anderson** Strategic News Service *COO* | |

Onward!

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