

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

9:00am - 10:00am



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.

15-Minute VIP Breakout: Solve for Ocean

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



Peter Wadhams

University of Cambridge
*Head of the Polar Ocean
Physics Group,
Department of Applied
Mathematics and
Theoretical Physics*



Dahlia Kirschbaum

NASA
*Chief of Hydrological
Sciences Laboratory*



Moderator:

Ed Butler

BBC
*Business
News Presenter*

11:00am - 11:45am

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.

15-Minute VIP Breakout: Water-Level Critical: Anticipating Changes to Our Most Important Resource

Lunch Break 12:00pm - 1:00pm

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



Dr. Larry Brilliant

Pandefense Advisors
*Founder & CEO and
CNN Consultant*



Moderator:

Mark Anderson

Pattern Computer Inc.
Strategic News Service
CEO

1:00pm - 1:45pm

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.

15-Minute VIP Breakout: How to End a Pandemic

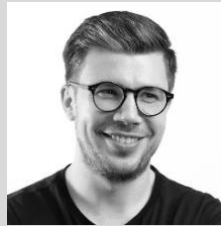
Tech Canceling Cancer



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

2:00pm - 2:45pm

From gene sequencing to AI-enabled MRI and radiation therapy technology, meet the entrepreneurs changing the landscape of cancer for the better.

15-Minute VIP Breakout: Tech Canceling Cancer

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



Richard Romanowski
eleXsys Energy
Co-Founder & Executive Director



Joern Tinnemeyer
EnerSys
CTO



Moderator:
Berit Anderson
Strategic News Service
COO

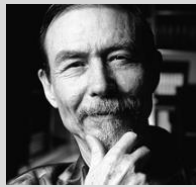
3:00pm - 3:45pm

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.

15-Minute VIP Breakout: 100% Renewable: A How-To Guide for the Grid

The Influence of Biology in Chip Design: A Centerpiece Conversation with Carver Mead

4:00pm - 4:45pm



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.

15-Minute VIP Breakout: The Influence of Biology in Chip Design

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. Prizes will be awarded for "Most Original Headpiece" and "Most Futuristic Hat."

[REGISTER NOW](#)



Future in Review 2022

Technology Driving a Brighter Future

Tuesday, March 1

AI in Defense & National Security

9:00am - 9:45am



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.

15-Minute VIP Breakout: AI in Defense & National Security

The Role of Cryptocurrency in Cybercrime

10:00am - 10:45am



John Reed Stark
John Reed Stark
Consulting LLC
President



Eun Young Choi
U.S. DOJ
*Director National
Cryptocurrency
Enforcement Team*



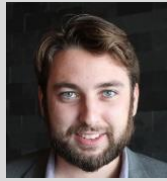
**Moderator:
Jody Westby**
Global Cyber Risk LLC
CEO

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.

15-Minute VIP Breakout: The Role of Cryptocurrency in Cybercrime

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.

Lunch Break 12:00pm - 1:00pm

AI at Exoscale on Global Networks

1:00pm - 1:45pm



Larry Smarr
California Institute for
Telecommunications
and Information
Technology, UCSD
Founding Director



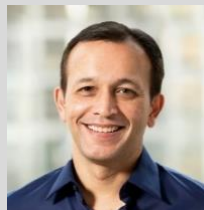
**Moderator:
Mark Anderson**
Pattern Computer Inc.
Strategic News Service
CEO

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.

15-Minute VIP Breakout: AI at Exoscale on Global Networks

Computational Health

2:00pm - 2:45pm



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.

15-Minute VIP Breakout: Computational Health

Whatever Happened to the Long Boom?

3:00pm - 3:45pm



Peter Schwartz
Salesforce
*SVP of Strategic
Planning*



**Moderator
Eliot Peper**
*Novelist / Strategist,
Entrepreneur and
Venture Capitalist*

15-Minute VIP Breakout: Whatever Happened to the Long Boom?

Using Machine Learning to Create Visualizations

4:00pm - 4:45pm



Chris Johnson
SCI Institute,
University of Utah
Professor

15-Minute VIP Breakout: Data Visualization

[REGISTER NOW](#)



Future in Review 2022

Technology Driving a Brighter Future

Wednesday, March 2: Advanced AI Day

Brought to you by Pattern Computer



PATTERN
COMPUTER®

New Pattern Discoveries from Pattern Computer: A Centerpiece Conversation with Mark Anderson

9:00am - 9:45am



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.

15-Minute VIP Breakout: New Pattern Discoveries from Pattern Computer

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.

Lunch Break 12:00pm - 1:00pm

Future of AI in Computational Biology

1:00pm - 1:45pm



Daniel Jacobson
Oak Ridge
National Laboratory
*Computational
Systems Biologist*



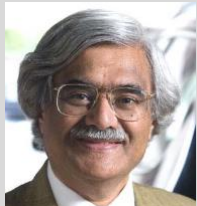
**Moderator:
Ben Brown**
LBNL,
*Deputy Director
of Environmental
Genomics & Systems
Biology*

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.

15-Minute VIP Breakout: Future of AI in Computational Biology

Vision and Intelligence for Safe Autonomous Driving

2:00pm - 2:45pm



Mohan Trivedi
UC San Diego
*Director,
Laboratory for
Intelligent and
Safe Automobiles*



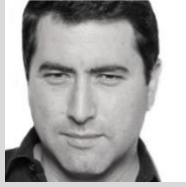
**Moderator:
Ken Kreutz-Delgado**
*Electrical & Computer
Engineering, UCSD
Emeritus Prof. of
Intelligent Systems
& Machine Learning*

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.

15-Minute VIP Breakout: Vision and Intelligence for Safe Autonomous Driving

Advanced AI

3:00pm - 3:45pm



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.

15-Minute VIP Breakout: Advanced AI

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

4:00pm - 4:45pm



Henrik Christensen
*Director of Robotics,
Distinguished Professor,
UCSD & 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.

15-Minute VIP Breakout: Robotics and Automation in Service of Society and Economic Well-Being

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.

REGISTER NOW



Future in Review 2022

Technology Driving a Brighter Future

Thursday, March 3

Brought to you by BiologiQ



Greening Germany's Political Future

9:00am - 9:45am



Sascha Mueller-Kraenner
Deutsche Umwelthilfe
Executive Director



Richard Teltschik
MdB Knut Abraham
*Senior Foreign and
Security Policy Advisor*



Moderator:
Steven Sokol
American Council
on Germany
President

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.

15-Minute VIP Breakout: Greening Germany's Political Future

Contagion & Denial

10:00am - 10:45am



Heidi Larson
The Vaccine
Confidence Project
Director

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.

15-Minute VIP Breakout: Contagion & Denial

Catalogue Earth: Mapping the Planet's Microbiome

11:00am - 11:45am



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.

15-Minute VIP Breakout: Mapping the Planet's Microbiome

Lunch Break 12:00pm - 1:00pm

Defending the Planet from Asteroids and Solar Flares

1:00pm - 1:45pm



Mario Juric
DiRAC Institute,
UW, *Director*



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



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

15-Minute VIP Breakout: Defending the Planet from Asteroids and Solar Flares

Capturing Carbon: Neutral or Negative by 2050

2:00pm - 2:45pm



Grant Canary
DroneSeed
Founder & CEO



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

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.

15-Minute VIP Breakout: Capturing Carbon: Neutral or Negative by 2050

Redefining the Cosmos: The Resonance Approach

3:00pm - 4:00pm



Mark Anderson
Pattern Computer Inc. &
Strategic News Service
CEO

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.

Building a Real-World Ministry of the Future

4:00pm - 4:45pm



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.

15-Minute VIP Breakout: The Ministry of the Future

[REGISTER NOW](#)



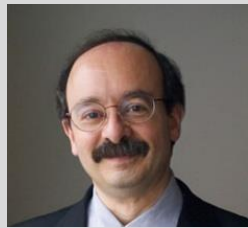
Future in Review 2022

Technology Driving a Brighter Future

Friday, March 4

Reductive Design & the Power of Less

9:00am - 9:45am



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.

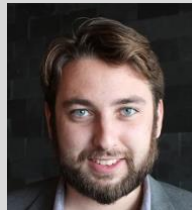
15-Minute VIP Breakout: Reductive Design & the Power of Less

China & Disengagement

10:00am - 10:45am



Josh Rogin
The Washington Post Columnist



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?

15-Minute VIP Breakout: China & Disengagement

Future Hybrid Warfare Encounters

11:00am – 11:45pm



Paul Wolfowitz
Former US Deputy
Secretary of Defense



**Moderator
Mark Anderson**
Pattern Computer Inc. &
Strategic News Service
CEO

15-Minute VIP Breakout: WAR

Closing Wrapup & Comments

12:00am - 12:45pm



Mark Anderson
Pattern Computer Inc. &
Strategic News Service
CEO



Berit Anderson
Strategic News Service
COO

Onward!

[REGISTER NOW](#)