

This insert and www.futureinreview.com reflect the most current updates to the FiRe Agenda. See hard copy Event Book for details and speaker bios.

TUESDAY, SEPTEMBER 27

5:00-6:15pm: Registration and Cocktail Reception (Adult partners welcome); with Geoffrey Dean on cello – *Flagstaff Mountain Deck*

6:15-6:45pm: Welcome to Utah: With Lt. Gov. Spencer Cox; and Welcome to FiRe (Introductions to FiRe Fellows & Staff): Sharon Anderson Morris, SNS Programs Director – *Flagstaff Mountain Deck*

7:00-7:30pm: Appreciations: Sharon Anderson Morris; and **“The Power of Flows”:** Mark Anderson – *Olympic Ballroom*

7:30-8:15pm: Dinner – *Olympic Ballroom*

8:15-9:00pm: Dinner Presentation: “Global Flows & Disruptions: From the Economy to the Environment”: William Janeway

9:00pm - - : Q&A and Discussion

WEDNESDAY, SEPTEMBER 28

6:45-7:50: Buffet Breakfast – *Olympic Ballroom*

7:55-8:00: Welcome & Opening Remarks: “The Power of Flows: From Biology into Technology”: Mark Anderson – *Stein Eriksen Ballroom*

8:00-8:30: “Visualizing Flows in Nature and Data” (in 3 parts): Chris Johnson, Alexander Lex, & Bei Wang Phillips; w/ host Mark Anderson

8:30-9:00: “The Irresistible Forces Behind ‘Flow Computing’”: Larry Smarr; w/ host Mark Anderson

9:00-9:30: “Redefining Country GDP: National Business Models and IP Flows”: Bill Ribaud, Evan Anderson, and Mark Anderson; w/ BBC host Ed Butler

9:30-10:00: “Circadian Rhythms and the Flow of Biological Time”: Benjamin Smarr; w/ BBC host Ed Butler

10:00-10:30: BREAK – *Directly outside Stein Eriksen Ballroom*

10:30-11:00: “Flow Economics: Driving Tech Companies Today”: R. Preston McAfee, Michael Schwarz, and Pai-Ling Yin; w/ host Jeff Emerson

11:00-11:30: “FiReStarters I: Six Companies Improving the World”: Aromyx, Atrin Pharmaceuticals, First Light Biosciences, Hyperloop Transportation Technologies, HZO, and Kineta; w/ BBC host Ed Butler

11:30-12:00: “Preserving Big Brains: The New Whale Protection Zone”: Christopher Clark; *and Announcing the Biocomputer Comparison Toolkit: Finding the Most Powerful Brains on Earth”:* Benjamin Smarr and Mark Anderson; w/ host Roger Payne

12:00-1:00: LUNCH – *Flagstaff Mountain Deck [Weather alternate: Odin Valhalla]*

1:00-1:30: “Intellectual Property Theft Flows: Mapping Future Wealth”: Kevin Montgomery and Evan Anderson; hosted by Russ Daggatt

1:30-2:00: “The Simplicity Behind Complexity: Do Flow and Interaction Explain Everything?”: Brad Holtz and Murray Cantor; w/ host Mark Anderson

2:00-2:30: The FiRe CTO Design Challenge: “Creating the First Flow Computing System & Enabling the Earth Energy Monitoring System”: *Judges:* Mark Anderson, Larry Smarr, Ty Carlson. *Team:* Ilkay Altintas, Murray Cantor, Steve Coy, Brad Holtz, Jeff Hudson, Talbot Jaeger, Nathanael Miller, Franklin Williams, and David Zuniga.

2:30-3:00: “Digitalization, the Cloud, and the Transformation of the 21st Century Enterprise”: R. Preston McAfee, Michael Schwarz, Mark Sunday, James Urquhart, Tim FitzGerald, and Edy Liongosari; w/ host Greg Ness

3:00-3:30: “Protecting Your Crown Jewel IP: INVNT/IP on 60 Minutes; and “Operation BedBug – China’s Ongoing Threat to Global Trade Secrets”: Dan McGahn, Evan Anderson, Richard H.L. Marshall, and Morian Eberhard; w/ host Jeff Hudson

3:30-4:00: “FiReStarters II: Six Companies Improving the World”: 24-Hour Solar Roof, Metabolon, NanoXplore, NovaWurks, ORIG3N, and OtoNexus Medical Technologies; w/ BBC host Ed Butler

4:00-5:00: BREAKOUTS (*Locations subject to change*):

I. FiRe CTO Design Challenge Working Session: “Creating the First Flow Computing System and Enabling the Earth Energy Monitoring System”: Moderated by the Challenge Team – *Flagstaff Room*

II. “Accomplishment-Based Education: Launching a Vision for Education That Fits Our Connected Students and Their World”: Moderated by David Engle and Marc Prensky – *Silver Room*

III. “INVNT/IP Open Session: “Hotel Spying and Technology Risk for Technology Executives: ‘Operation BedBug’”: Moderated by Evan Anderson – *Bronze Room*

IV. “SNS FiReFilms: Meet the Filmmakers”: Moderated by Sharon Anderson Morris and GERALYN DREYFUS – *Viking Room (Separate building)*

5:00-7:00pm: Meet the FiReStarters & Exhibitors: Exhibition and Reception, including cocktails and hors d’oeuvres – *Stein Eriksen Ballroom Gallery (directly outside Ballroom)*

7:00-8:45pm + : FiRe Film Night: Introduction: Sharon Anderson Morris and Mark Anderson (7:00-7:15); Screening of **Unlocking the Cage** (7:15-8:45); **Discussion and Q&A w/ Chris Hegedus & Steven M. Wise** (8:45---). Adult partners welcome – *Stein Eriksen Ballroom*

THURSDAY, SEPTEMBER 29

6:45-7:50: Buffet Breakfast – *Olympic Ballroom*

7:55-8:00: Welcome and Announcements: Mark Anderson – *Stein Eriksen Ballroom*

8:00-8:30: “Documentaries That Change the World: Meet the Directors”: Chris Hegedus, GERALYN DREYFUS, ADRIANA LACORTE, and Ted Richane; w/ host Sharon Anderson Morris

8:30-9:00: “Flows and the Big Shift in Business Models”: John Hagel and Paul Sallomi; w/ host Ivy Estabrooke

9:00-9:30: “The SNS Carbon Trifecta: Harnessing the Flow of CO2”: Ray Gibbs, Jon Myers, Will Perego, Soroush Nazarpour, and Larry Smarr; w/ host Mark Anderson

9:30-10:00: Introduction by Sharon Anderson Morris; **“The UnDx (Undiagnosed) Global Initiative”:** Katia Moritz, Tristan Orpin, John Ryals, and Robin Y. Smith; w/ host Doug Jamison

10:00-10:30: BREAK – *Directly outside Stein Eriksen Ballroom*

10:30-11:00: “Treat the Patient, Not the Disease: How Technology, Incentives, and Business Models Will Enable Data Flows and Reinvent Healthcare”: Glenn Snyder and Michael Raynor; w/ host Larry Smarr

11:00-11:30: “Elon’s Vision Becomes Reality: The Hyperloop Takes on the World”: Bibop Gresta; w/ host Sharon Anderson Morris

11:30-12:00: “The Oldest and Newest Microbiome: Plants”: Ben Brown; hosted by David Morris

12:00-1:00: LUNCH – *Flagstaff Mountain Deck [Weather alternate: Odin Valhalla]*

1:00-1:30: “A New Congo”: Emmanuel Weyi and Bruce Dines; w/ BBC host Ed Butler

1:30-2:00: Advanced Sensor Design: “Ocean Sensing: Realtime Data Flows from an Unmanned Remote Station”: John Delaney (1:30-1:45); and **“Digitizing Smell and Taste”:** Chris Hanson (1:45-2:00; w/ host Jim Louderback

2:00-2:30: “Human Trafficking and the SNS GRS System in the UK”: Andrew Wallis OBE; w/ host Cynthia Figge

2:30-3:00: “Quantum Computing: Targeting Quantum Chemistry with a New Qubit Chip and New Algorithms”: Jonathan Carter; w/ host Brett Horvath

3:00-3:30: “HotSpots: Five Views of the Future”: David Engle, Mike Winder, Michael Bartholomeusz, Mark Godsy, and Thomas Aidan Curran; w/ BBC host Ed Butler

3:30-4:00: BREAK – *Directly outside Stein Eriksen Ballroom*

4:00-5:00: BREAKOUTS (*Locations subject to change*)

I. FiRe CTO Design Challenge Working Session: “Creating the First Flow Computing System and Enabling the Earth Energy Monitoring System”: Moderated by the Challenge Team – *Flagstaff Room*

II. “The UnDx (Undiagnosed) Global Initiative”: Moderated by Doug Jamison, Katia Moritz, Tristan Orpin, John Ryals, and Robin Y. Smith – *Silver Room*

III. “Population Flows: Who’s Going Where?”: Moderated by Mike Winder – *Gold Room*

IV. “Bringing Technology to the Congo”: Moderated by Emmanuel Weyi and Bruce Dines – *Bronze Room*

5:00pm - - : Dinner off-agenda: Ask Concierge for recommendations!

8:00pm - - : The FiRe Social: Meetup for all FiRe Attendees, including Speakers, FiReStarters, Exhibitors, Press, and SNS & FiRe Staff – Featuring “Experiencing Endangered Species Through VR,” produced by Condition One – *Olympic Ballroom Gallery & Bronze Room*

FRIDAY, OCTOBER 1

6:45-7:50: Buffet Breakfast – *Olympic Ballroom*

7:55-8:00: Announcements: Sharon Anderson Morris – *Stein Eriksen Ballroom*

8:00-8:30: “Global Warming and Coastal Inundation”: Hans-Peter Plag; w/ host Glen Hiemstra

8:30-9:00: “Bleeding-Edge Medicine: Today’s Discoveries, Tomorrow’s Practice”: Oren Gilad, Don Straus, Rob Hedequist, and Caitlin Cameron; w/ BBC host Ed Butler

9:00-9:30: “Autonomous Cars: Social Transformation and Industry Displacement”: Craig Giffi; w/ host Robert Anderson

9:30-10:00: “Looking Further”: Eliot Peper; w/ host Berit Anderson

10:00-11:00: Conclusion & Report Out: FiRe CTO Design Challenge: “**“Creating the First Flow Computing System & Enabling the Earth Energy Monitoring System”:** *Judges:* Mark Anderson, Larry Smarr, Ty Carlson. *Challenge Team:* Ilkay Altintas, Murray Cantor, Steve Coy, Brad Holtz, Jeff Hudson, Talbot Jaeger, Nathanael Miller, Franklin Williams, and David Zuniga.

11:00-11:15: “Coventry Computer: Stealth Team Update”: Ty Carlson, Michael Riddle, Brad Holtz, Steve Coy, & Mark Anderson

“Your Turn: The Next Five Years: Audience Questions and Comments”: w/ host Mark Anderson

11:30-12:00: Closing Comments and Summary: Mark Anderson
