

*This insert and [www.futureinreview.com](http://www.futureinreview.com) reflect the most current updates to the FiRe Agenda. See hard copy Event Book for details and speaker bios.*

**TUESDAY, OCTOBER 10**

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

**6:15-6:45pm: Welcome and Introductions to FiReFellows & Staff:** Sharon Anderson Morris, SNS Programs Director – *Flagstaff Mountain Deck*

**7:00-7:30pm: Appreciations:** Sharon Anderson Morris; and **“Breaking Through on a Century Scale”:** Mark Anderson – *Olympic Ballroom*

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

**8:15-9:00pm: Dinner Presentation: “The End of Disease: Solving the Healthcare Crisis”:** Leroy Hood

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

**WEDNESDAY, OCTOBER 11**

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

**7:50-8:00: Welcome & Opening Remarks: “Picturing Breakthrough Discoveries”:** Mark Anderson – *Stein Eriksen Ballroom*

**8:00-8:30: “Visualizing Visualizations: Pictorial Processing in Nature”:** I: Chris Johnson; II: Valerio Pascucci; w/ host Mark Anderson

**8:30-9:00: “Century-Scale Breakthroughs: Pictorial Processing Beyond the Exascale”:** Larry Smarr; w/ host Mark Anderson

**9:00-9:30: “The Eye–Brain Machine: Computing’s Next Model?”:** Bryan William Jones; w/ host Mark Anderson

**9:30-10:00: “What I Learned at Yahoo”:** Ken Goldman; w/ BBC host Ed Butler

**10:00-10:30: BREAK** – *Outside Stein Eriksen Ballroom*

**10:30-11:00: “The Next Wave of Venture Investing”:** Yanev Suissa, Dafina Toncheva, and Mark Gorenberg; w/ host Ray Rothrock

**11:00-11:30: “FiReStarters I: Five Companies Improving the World”:** 24-Hour Solar Roof, Aptage, ÉlpisÉremo, Exro Technologies, and HALE.life; w/ BBC host Ed Butler

**11:30-12:00: Centerpiece: “Metadata Analysis for the World’s Most Powerful Telescope”:** Andrew Connolly; w/ host Mark Anderson

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

**1:00-1:30: “The New China: Xi Jinping and His Dream of Global Dominance”:** Evan Anderson and Richard Marshall; w/ host Berit Anderson

**1:30-2:00: “Ukraine: On the Front Lines of Russia’s Infowar Machine”:** Bob Flores, Phillip Lohaus, and Dmytro Shymkiv; w/ host Greg Ness

**2:00-2:30: The FiRe CTO Design Challenge: “Comparative Image Computing: Creating the First Pictorial Processing System”:** *Judges:* Mark Anderson, Larry Smarr, and Ty Carlson. *Team:* Greg Brandeau, Murray Cantor, Andrew Connolly, Brad Holtz, Jeff Hudson, Bryan William Jones, Edy Liongosari, Nathanael Miller, Valerio Pascucci, and Rob Shearer

**2:30-2:45: “Coventry Computer: Stealth Team Update”:** Pilar Ackerman, Ty Carlson, Denyse Davis, Michael Dushkoff, Eric Greenwade, Brad Holtz, Marc Jaffrey, Matt Keener, Bill Mannion, Irshad Mohammed, James Reinders, and Michael Riddle; w/ host Mark Anderson

**2:45-3:15: “Evolving the Two Elemental Actions: Flow and Interaction”:** Mark Anderson and Paul Sallomi; w/ host Denyse Davis; and **Group Conversation: “Applications and Potential for F&I”**

**3:15-3:30: “Cyber Security”:** Rob Roy

**3:30-4:00: “FiReStarters II: Five Companies Improving the World”:** Haydale Technologies Inc., LINK3D, ParentSquare, RedSeal, and TruTag Technologies Inc.; w/ BBC host Ed Butler

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

**I. FiRe CTO Design Challenge Working Session: “Comparative Image Computing: Creating the First Pictorial Processing System”:** Moderated by the Challenge Team – *Flagstaff Room*

**II. “Pairing Technology and Community for Education Success”:** Moderated by Anupama Vaid and David Engle – *Silver Room*

**III. INVNT/IP Open Session: “Xi’s World: Global Implications”:** Moderated by Evan Anderson – *Bronze Room*

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

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

**7:00-9:00 + : FiRe Film Night: Introduction:** Sharon Anderson Morris (7:00-7:05); Screening of **Chasing Coral** (7:05-8:35); **Discussion and Q&A w/ Mark Eakin** (8:35-9:00). Adult partners welcome – *Stein Eriksen Ballroom*

#### **THURSDAY, OCTOBER 12**

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

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

**8:00-8:30: “Documentaries That Change the World: Meet the Directors”:** Peter C. Davidson, Jordan Saxton Hackney, Bo Landin, and Diane Tober; w/ host Sharon Anderson Morris

**8:30-9:00: “AI I: What Is AI Telling Us? The Future of Work for Humans and Machines”:** Joseph Smarr and David Brin; w/ BBC host Ed Butler

**9:00-9:30: “AI II: The Chips That Drive It All”:** Robert Patti and Nick Pandher; w/ host James Reinders

**9:30-10:00: “The UnDx (Undiagnosed) Initiative”:** **Intro:** Sharon Anderson Morris; **Documentary:** Katia Moritz; **“Year 2: Moving Silos Toward Systems in Precision Medicine”:** Doug Jamison, Andreas Kogelnik, DeAunne Denmark, Michael Kurisu; w/ host Larry Smarr

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

**10:30-11:00: “Computer Modeling Synchronicity of Whole Body Systems: A New Path in Preventative Medicine” and “Who Are Scientists’ Customers? How Reshaping Publicly Funded Research Could Lead to Rapid Evolution in Personal Predictive Medicine”:** Benjamin Smarr; w/ host Rep. Mike Winder

**11:00-11:30: “Tomorrow’s Doctors for Tomorrow’s Healthcare”:** Michael Kurisu and James Ryan; w/ host Larry Smarr

**11:30-12:00: “Investors Redefine Value: Impact on Public Policy and Education Content”:** Bill Ribaldo; w/ BBC host Ed Butler

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

**1:00-1:30: “Supporting the Carbon Trifecta: Building Elon’s World”:** Will Perego, Mark Godsy, Ray Gibbs; w/ host Cynthia Figge

**1:30-2:00: “Supporting the Carbon Trifecta: Advances in 3D Printing”:** Trevor Rudderham, Shane Fox, and Philip Vafiadis; w/ host Steve Waite

**2:00-2:30: “Fighting Back: Solving Nation-State IP Theft from Security to Policy”:** Evan Anderson and Jeff Hudson, w/ host Richard Marshall

**2:30-3:00: “Winner Takes All (of Us): Tech Giants and the Future of Competition”:** Jeff Loucks; w/ host Rick LeFavre

**3:00-3:30: “HotSpots: Five Views of the Future”:** Caitlin Cameron, Kristin Bedard, Jim Divver, Hans Werner, and Jeff Hudson; w/ host Ed Butler

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

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

**I. FiRe CTO Design Challenge Working Session: “Comparative Image Computing: Creating the First Pictorial Processing System”:** Moderated by the Challenge Team – *Flagstaff Room*

**II. “The UnDx (Undiagnosed) Global Initiative”:** With Katia Moritz; moderated by Doug Jamison – *Silver Room*

**III. “Climate Solutions: The Carbon Trifecta and the Earth Energy Monitoring System”:** Moderated by Lee Hall and Hans-Peter Plag – *Gold Room*

**IV. “Cyber Security”:** Moderated by Rob Roy – *Bronze Room*

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

**8:00pm - - : The FiReJAM Session and Networking Event: A musical adventure open to *all* FiRe Participants & partners** (sorry, no minors) – including FiRe Speakers, FiReStarters, Exhibitors, Press, and SNS & FiRe Staff. Bring instruments, voices, or just have fun. With cash bar and snacks – *Bronze Room & Foyer Bar*

#### **FRIDAY, OCTOBER 13**

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

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

**8:00-8:30: “Computational Propaganda”:** Berit Anderson; w/ host Brett Horvath

**8:30-9:00: “The Future of Analytics: From Connected Car to Fintech”:** Gahl Berkooz and John Heintz; w/ host Robert Anderson

**9:00-9:30: “Breakthroughs in Robotics: Taking AI into Space”:** Michael Sims; w/ host Jason Preston

**9:30-10:30: Conclusion & Report Out: FiRe CTO Design Challenge: “Comparative Image Computing: Creating the First Pictorial Processing System”:** *Judges:* Mark Anderson, Larry Smarr, Ty Carlson. *Challenge Team:* Greg Brandeau, Murray Cantor, Andrew Connolly, Brad Holtz, Jeff Hudson, Bryan William Jones, Edy Liongosari, Nathanael Miller, Valerio Pascucci, and Rob Shearer

**10:30-11:00: “Building Tomorrow’s Pyramid(s): A First Look at Tomorrow’s Compute Universe”:** **I: The Pattern Recognition Processor:** Robert Patti; **II: The Pattern Recognition Lab:** Larry Smarr; **III: The Pattern Computer:** Ty Carlson; **IV: Flow Computing:** Nathanael Miller; **V: The Earth Energy Monitoring System:** Lee Hall; **VI: Pictorial Processing:** Valerio Pascucci; w/ hosts Mark Anderson and Brad Holtz

**11:00-11:30: “Your Turn: The Next Five Years: Audience Questions & Comments”:** w/ host Mark Anderson; *and*

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

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