

A STRATEGIC NEWS SERVICE CONFERENCE

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, OCTOBER 6

5:00 - 6:30pm: Registration and Cocktail Reception with finger food (Adult partners welcome); **Featuring the Rene Hart Jazz Ensemble** – *Flagstaff Mountain Deck*

6:30 - 6:45pm: Welcome to FiRe, and Introductions to FiRe/Rodel Thunderbird Interns & FiRe Staff: Sharon Anderson Morris, SNS Programs Director – *Flagstaff Mountain Deck*

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

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

8:15 - 9:00pm: Dinner Presentation: "Building Elon Musk's Hyperloop": Bibop Gabriele Gresta; w/ host Mark Anderson

9:00 - -: Q&A and Discussion

WEDNESDAY, OCTOBER 7

6:45 - 7:55am: Buffet Breakfast - Olympic Ballroom

7:55 - 8:00am: Welcome & Opening Remarks: "The Power of Patterns": Mark Anderson – Stein Eriksen Ballroom

8:00 - 8:30am: "Exploratory Visualization for Pattern Discovery" (in 3 parts): Chris Johnson, Miriah Meyer, and Ross Whitaker; w/ host Mark Anderson

8:30 - 9:00am: Announcement: SNS & UCSD create a new FiRe Lab: Larry Smarr and Mark Anderson; and Discussion: "Building the Pattern Recognition Lab": Ken Kreutz-Delgado, Akihiro Nakao, and Mark Anderson; and "Launching the Next Net: The 100Gps Pacific Research Platform": w/ host Larry Smarr

9:00 - 9:30am: <u>A Centerpiece Conversation</u> with Dharmendra Modha: "The World's First Pattern Recognition Processor: The TrueNorth Chip"; w/ host Mark Anderson

9:30 - 9:45am: "Introducing Biomimetic Programming, and a New Toolkit for a New Paradigm": Mike Riddle; w/ host Brad Holtz

9:45 - 10:15am: <u>A Centerpiece Conversation</u> with Tom Stonehocker and Kamran Elahian: "Look Out, Siri! Here Comes Hound (on Apple!)": w/ host Brett Horvath

10:15 - 10:45am: BREAK – Directly outside Stein Eriksen Ballroom {Thank you to USTAR, Sponsor of this Break}

10:45 - 11:15am: <u>A Centerpiece Conversation</u> with Shane Wall: "Creating a Blended Reality: 3D Transformations"; w/ host Ed Butler

11:15 - 11:45am: "FiReStarters I: Six Companies Improving the World": AnthroTronix, Applied DNA Sciences, Haydale, Mojio, Nanotech Bio, and Nantero; w/ BBC host Ed Butler

11:45 - 12:15pm: "Financing Innovation: Are Huge Private Tech Company Valuations Leading to a Meltdown?" Ken Goldman and Douglas Jamison; w/ host Nathan McDonald

12:15 - 1:30pm: LUNCH – Flagstaff Mountain Deck [weather alternate: Odin Valhalla]

1:30 - 2:00pm: "The Patterns of Language: Using Computers to Communicate with Other Species": Con Slobodchikoff and Barry Briggs; w/ host Jason Preston

2:00 - 2:30pm: The FiRe CTO Design Challenge: "Building the First Pattern Computer System": Judges: Mark Anderson et al. Challenge Team: Hugh Bradlow, Ty Carlson, Steve Coy, Dharmendra Modha, Mike Riddle, Greg Schmergel, David Schoenberger, Larry Smarr, Tim Stonehocker, Mark Sunday, and others tbd

2:30 - 3:00pm: "Advanced Automotive Technologies: Electric Cars, New Networks, and IoT Security": James Barfield, Jay Giraud, and Robert F. Anderson; w/ host Tom Taylor

3:00 - 3:30pm: "New Energy Technologies": Richard Barth, Leslie Dewan, Simon Hackett, and Joe Lassiter; w/ host Ray Rothrock

3:30 - 4:00pm: "FiReStarters II: Six Companies Improving the World": CertainSafe, NXT-ID, Redflow, Transatomic Power, True North Therapeutics, and ValidSoft; with BBC host Ed Butler

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

I. FiRe CTO Design Challenge Working Session: "Building the First Pattern Computer System": Moderated by the Challenge Team – Flagstaff Room

II. "Community Building with Technology and Philanthropy": Moderated by Mike Winder et al. – Silver Room

III. "Technology in Education: Progress in 1:1 Computing in Schools Today": Moderated by David Engle and Marc Prensky – *Bronze Room*

- **IV. "AI, Robotics, and Machine Learning":** Moderated by Joseph Smarr and Brett Horvath *Gold Room*
- **V.** "Genetics, Demographics, Ancestry, and Healthcare": Moderated by Kenneth Chahine *Alpine Room*
- **5:00 7:00pm:** Meet the FiReStarters: Exhibition and Reception, including cocktails and hors d'oeuvres *Stein Eriksen Ballroom Gallery (directly outside Ballroom)*
- 7:00 8:30pm + : FiRe Film Night: Screening of *Racing Extinction*: Introduction, Sharon Anderson Morris and Mark Anderson (7:00-7:15), Racing Extinction (7:15-8:30), Discussion w/ Louie Psihoyos & Shawn Heinrichs (8:30---); Adult partners welcome *Stein Eriksen Ballroom*

THURSDAY, OCTOBER 8

- 6:45 7:50am: Buffet Breakfast Olympic Ballroom
- **7:55 8:00am: Welcome and Announcements:** Mark Anderson *Stein Eriksen Ballroom*
- 8:00 8:30am: "The Next Wireless World: From 5G to IoT": Shahid Ahmed, Kate McKenzie, and Robert Morrison; w/ host Chetan Sharma
- 8:30 9:00am: FiReBooks' First e-Book Release: Stealth Japan Scott Foster; w/ host Russ Daggatt
- **9:00 9:30am: FiReFilms Update:** Sharon Anderson Morris; *followed by* "Documentaries That Change the World: Meet the Directors": Louie Psihoyos, Sue Williams, Jamie Bernstein, and Hilary Sparrow; w/host Geralyn Dreyfous
- 9:30 10:00am: "Avoiding Global Extinction: Technology's Role": Louie Psihoyos, Shawn Heinrichs, and Christopher Clark; w/ BBC host Ed Butler
- 10:00 10:30am: BREAK Directly outside Stein Eriksen Ballroom
- 10:30 10:35am: For Eric: In Memory of Eric Openshaw Stein Eriksen Ballroom
- 10:35 11:00am: "New Breakthroughs in Medicine": Leah Boyer, Kenneth Chahine, Corinna E. Lathan, Vicki J. Lyons, and Nancy Stagliano; w/ BBC host Ed Butler
- 11:00 11:30am: INVNT/IP First Release: "Behind the China Crash: How China Makes Money": Evan Anderson and Mark Anderson; w/BBC host Ed Butler
- 11:30 12:00pm: "Next-Generation Security": David Schoenberger, Shawn Edmunds, James A. Hayward, Gino Pereira, Jeff Hudson, and Bryan Strong; w/ host Richard H.L. Marshall Esq.
- **12:00 1:00pm:** LUNCH Flagstaff Mountain Deck [weather alternate: Odin Valhalla]
- 1:00 1:30pm: "The Cloud and the Enterprise: New IT Operating Models": Steve Daheb, Saravan Rajendran, James Staten, and others *tbd*; w/ host Gregory Ness
- 1:30 2:00pm: "From Makers to Manufacturing: Graphene Comes of Age": Ray Gibbs, Will Martinez, Soroush Nazarpour, and Elena Polyakova; w/ host Steve Waite
- 2:00 2:30pm: "The Future of Healthcare: Diagnosing the Undiagnosed": Katia Moritz, Karen Possemato, and Steve Watkins; w/host David Ewing Duncan
- 2:30 3:00pm: "Patterns in Disruption and Market Value Creation": "Patterns in Disruption": John Hagel III; "Patterns in Market Value Creation": Bill Ribaudo; w/ host Marcel van Hulle
- **3:00 3:30pm: "HotSpots: Five Views of the Future":** Andrew Mbuya, Nathanael Miller, Will Perego, Joseph Smarr, and Mike Winder
- 3:30 4:00pm: BREAK Directly outside Stein Eriksen Ballroom
- 4:00 5:00pm: BREAKOUTS (Locations subject to change)
- I. FiRe CTO Design Challenge Working Session: "Building the First Pattern Computer System": Moderated by the Challenge Team Flagstaff Room
- II. FiReFilms: "The Future of World-Changing Documentaries: Meet the Directors": Moderated by Sharon Anderson Morris and Hilary Sparrow *Viking Boardroom (Separate building)*
- III. INVNT/IP Open Session (for all interested parties): "The China Crash": Moderated by Evan Anderson Silver Room
- IV. "Water Futures": Moderated by Wendy Pabich Gold Room
- 5:00pm -: Dinner off-agenda: Ask Concierge for recommendations!
- 8:00pm - : The FiRe Social: Meetup for *all* FiRe Participants, including Speakers, FiReStarters, Exhibitors, Press, and SNS & FiRe Staff Featuring the Rene Hart Jazz Ensemble &the first Brain-Interactive Jazz Performance Olympic Ballroom Foyer

FRIDAY, OCTOBER 9

6:45 - 7:50am: Buffet Breakfast - Olympic Ballroom

7:55 - 8:00am: Announcements – Stein Eriksen Ballroom

8:00 - 8:30am: "Does Information Want to Be Free?" Cory Doctorow and Katherine Oyama; w/ BBC host Ed Butler

8:30 - 8:45am: "Machines Learning About People: What's Next?" Joseph Smarr; w/ host Ed Butler

8:45 - 9:00am: "The Cambridge Declaration on Consciousness: United States Launch": Philip Low; w/ host Ed Butler

9:00 - 9:30am: "Machine Intelligence in a Noisy and Dangerous World," including participation in the FiRe / Calit2 Pattern Recognition Laboratory: Daniel Goldin; w/ host Larry Smarr

9:30 - 10:00am: "Looking Further: How Science Fiction Accelerates R&D": Ramez Naam; w/ host Berit Anderson

10:00 - 11:00am: Conclusion: FiRe CTO Design Challenge: "Building the First Pattern Computer System": Judges Mark
Anderson et al.; Challenge Team Hugh Bradlow, Ty Carlson, Steve Coy,
Dharmendra Modha, Mike Riddle, Greg Schmergel, David Schoenberger,
Larry Smarr, Tim Stonehocker, Mark Sunday, and others; Including
"Building the Next Net: The 100GB PRP" w/ Larry Smarr

11:00 - 11:30am: "Your Turn: The Next Five Years": Audience Questions and Comments: Hosted by Mark Anderson

11:30am - 12:00pm: Closing Comments and Summary, including FiReBooks' Next Title: *The Pattern Future*; Mark Anderson