



# April 8<sup>th</sup> & 9<sup>th</sup> Santa Fe, New Mexico 88<sup>th</sup> HPC User Forum Agenda



## Tuesday, April 8<sup>th</sup>

**7:15 - 8:00 am Breakfast and Badging**

**8:00 - 8:30 am Welcome and Meeting Overview**

- Welcome & Logistics, Piyush Mehrotra and Earl Joseph
- HPC Market Update, Earl Joseph, Hyperion Research

*(Session Leader: Piyush Mehrotra)*

**8:30 - 10:00 am New Developments in HPC, AI and Exascale**

- From Leader to Fast Follower Through the Barren Cloudy HPL Valley, Gary Grider, Los Alamos National Laboratory (LANL)
- Assessing the Nature of Large Language Models, Ann Speed, Sandia National Laboratories
- Lessons from El Capitan: Shaping LLNL's Future HPC Vision, Terri Quinn, LLNL

**10:00 - 10:15 am Vendor Update:** Molly Presley, Hammerspace

**10:15 - 10:30 am Break**

**10:30 - 11:30 am Panel on Mission Changes Within US Agencies**

- Gary Grider, LANL; Tom Beck, ORNL; Earl Lawrence, LANL; Sudip Dosanjh, LBNL; Ann Speed, Sandia; Erik Draeger, LLNL; Terri Quinn, LLNL; Carolyn Marie Connor, LANL; Andrew Younge, Sandia; and Michael Lang, LANL

**11:30 - 12:00 pm NAIRR Update,** John Towns, NCSA

**12:00 - 1:00 pm Lunch**

*(Session Leader: David Martin, ANL)*

**1:00 - 2:30 pm New Directions in Combining HPC with Quantum Computing**

- QC Market and Technology Trends, Bob Sorensen, Hyperion Research
- QC at Alice & Bob, Juliette Peyronnet, Alice & Bob
- QC at Quantinuum, Nash Palaniswamy, Quantinuum
- QC at NASA, Rupak Biswas, NASA
- QC at IBM, Andrew Wack, IBM Quantum
- QC at QuEra, Yuval Boger, QuEra
- Panel Discussion

**2:30 - 3:00 pm Break**

**3:00 - 3:30 pm Innovative Technologies Showcase:** QuEra (Yuval Boger), Linaro (Andrew Westergren), Parallel Works (Matthew Shaxted), DDN (Mark Taylor)

**3:30 - 3:45 pm Vendor Update:** Mike Vildibill, HPE

**3:45 - 5:00 pm The Evolving Use of Clouds to Run HPC and AI Workloads**

- Research Perspectives on Using Clouds for AI and HPC Workloads, Mark Nossokoff, Hyperion Research
- Progress in Developing HPC/AI Infrastructure, Sam Skillman, Google
- Cloud Service Provider News: Chris Maestas, IBM
- AWS HPC/AI Update, John Lowell Wofford, AWS
- Panel Discussion

**5:00 - 6:00 pm Break**

**6:00 - 8:30 pm Dinner Presentation:** Introduction to Santa Fe by Peter Weiss, Social Historian

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## Wednesday, April 9<sup>th</sup>

**7:15 - 8:00 am Breakfast**

**8:00 - 8:05 am Welcome and Meeting Logistics**

*(Session Leader: Rupak Biswas, NASA)*

**8:05 - 10:00 am HPC Site Updates:**

- El Capitan Update, Erik Draeger, Lawrence Livermore National Laboratory
- Sandia Overview and Update, Rob Hoekstra, Sandia National Laboratory
- Aurora Experiences and ALCF Update, David Martin, Argonne National Laboratory
- Update on HPC and AI at DHS, Amy E. Henninger, DHS (video)

**10:00 - 10:30 am High-End Computing Enables Discovery at NASA**, Bill Thigpen, NASA

**10:30 - 11:00 am Break**

**11:00 - 11:10 am The Trillion Parameter Consortium All-Hands Meeting & Conference**, Tom Tabor, HPCwire

**11:10 - 11:30 am Latest Perspectives on Storage and Interconnects**, Mark Nossokoff, Hyperion Research

**11:30 - 11:45 am Vendor Update:** Thomas Metzger, Intel

**11:45 - 12:00 pm Benchmarking of Real-World AI Inferencing Workloads on the Intel Gaudi 3 Accelerators**, Gianluca Longoni, FedData

**12:00 - 1:00 pm Lunch**

*(Session Leader: Brendan McGinty, NCSA)*

**1:00 - 1:30 pm Update on EU AI and HPC Activities**, Antonio Moreno, EU (video)

**1:30 - 1:45 pm Vendor Update:** Google, Sam Skillman, Google

**1:45 - 2:15 pm Innovative Technologies Showcase:** IBM (Chris Maestas), FedData (Dr. Gianluca Longoni), CTG Federal (Brad Baker), Supermicro (Al Ford)

**2:15 - 2:45 pm Break**

**2:45 - 3:15 pm HPC and AI at Rolls Royce**, Todd Simons, Rolls Royce

**3:15 - 3:30 pm Vendor Update:** Kevin Tubbs, WEKA

**3:30 - 4:30 pm HPC and AI at LANL**

- Artificial Intelligence for Addressing Our Mission, Earl Lawrence, Los Alamos National Laboratory
- Enabling Manufacturing with Machine Learning, Nathan DeBardeleben, Los Alamos National Laboratory

**4:30 - 4:45 pm Conclusions and Future HPC User Forums**, Piyush Mehrotra and Earl Joseph

**4:45 - 6:00 pm Break**

**5:10 - 6:00 pm Optional Tour La Fonda on the Plaza**

**6:00 - 8:30 pm Dinner and Networking Time**

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