

Sandia National Laboratories at SC17

The Exascale Ecosystem: Putting Extreme-scale computing in context

Revisit how extreme-scale computing must ultimately provide a means to an end: enabling scientific discovery and advancing engineering design. A keynote talk by Michael Heroux—senior scientist at Sandia National Laboratories, scientist in residence at St. John’s University, and director of the Software Technology for ECP—will describe the full ecosystem for exascale computing with a discussion of current challenges, emerging trends such as resilience and machine learning, and opportunities. Join Heroux at SC’17 On Monday, Nov. 13th 3:30-4:10 as he provides a holistic perspective of extreme-scale computing.

HPC retrospective shows trajectory towards Exascale

Learn about how the role of high performance computing evolved as part of a critical capability for national security—and continues to evolve and advance today. Sandia National Lab’s 2017 High Performance Computing report provides a glimpse at how national security missions necessitated HPC and how Sandia and its collaborators continue to apply and develop HPC to bring innovation and scientific discovery to fruition.

SC’17 events:

Tutorial: Large Scale Visualization with ParaView

Sunday, November 12th 8:30am - 5pm

Room: 403

Workshop on Exascale MPI (ExaMPI)

Sunday, November 12th 9am - 5:30pm

Room: 603

A Novel Shard-Based Approach for Asynchronous Many-Task Models for In Situ Analysis

Sunday, November 12th 11:45am - 12:05pm

Room: 605

Poster: Campaign Storage: Erasure Coding with GPUs

Tuesday, November 14th 5:15pm - 7pm

Room: Four Seasons Ballroom

Fernbach Award Presentation: Particles, HPC, and the Ukulele Syndrome

Wednesday, November 15th 8:30am - 9:15am

Room: Mile High Ballroom

Birds of a Feather: Practical Reproducibility by Managing Experiments Like Software

Wednesday, November 15th 12:15pm - 1:15pm

Room: 601

Supercomputing in the Shadow of Giants: Perspectives and Insights from Supercomputing Leaders Outside the “Big 5” Regions and Organizations

Wednesday, November 15th 1:30pm - 3pm

Room: 201-203

Embracing a New Era of Highly Efficient and Productive Quantum Monte Carlo Simulations

Wednesday, November 15th 3:30pm - 4pm

Room:402-403-404

Birds of a Feather: The Virtual Institute of I/O and the IO-500

Wednesday, November 15th 5:15pm - 7pm

Room: 201-203