

PNNL@SC17

Sunday, November 12, 2017

Workshops

Eighth Annual Workshop for the Energy Efficient HPC Working Group (EE HPC WG)

Time: 9:00 AM - 5:30 PM

Room: 704-706

Organizers: Michael Patterson, Torsten Wilde, Natalie Bates, Anna Maria Bailey, David Martinez, David Grant, James H. Laros, James Rogers, Ramkumar Nagappan, Michael J. Ellsworth, Steven Martin, Dale Sartor, Bilel Hadri, [Andres Marquez](#), Nicolas Dubé, Josip Loncaric, Susan Coghlan, Greg Koenig, Ladina Gilly, Daniel Hackenberg, Fumiyoshi Shoji, Thomas Durbin, and Wu Feng

Monday, November 13, 2017

Workshops

IA³ 2017: Seventh Workshop on Irregular Applications: Architectures and Algorithms

Time: 9:00 AM - 5:30 PM

Room: 507

Organizers: [Antonino Tumeo](#), [John Feo](#), and [Vito Giovanni Castellana](#)
<http://hpc.pnl.gov/IA3>

Energy Efficient Supercomputing (E2SC)

Time: 9:00 AM - 5:30 PM

Room: 506

Organizers: [Kevin Barker](#), Kirk Cameron, David Lowenthal, Dimitris Nikolopoulos, Adolfo Hoisie, and Sudhakar Yalamanchili
<http://hpc.pnl.gov/conf/e2sc/2017/index.html>

Early Career Program

Thinking Strategically

Session: Career Management

Time: 10:30 AM - 10:42 AM

Room: 711

Presenter: [Andrew Lumsdaine](#)

Tuesday, November 14, 2017

Birds of a Feather

HPC Graph Toolkits and the GraphBLAS Forum

Time: 5:15 PM – 7:00 PM

Room: 402-403-404

Session Leaders: [Antonino Tumeo](#), [Mahantesh Halappanavar](#), Alex Pothen, Michael Wolf, Fabrizio Petrini, Aydin Buluc, and Timothy Mattson

Poster Reception

P84: PRESAGE: Selective Low Overhead Error Amplification for Easy Detection

Session: ACM Student Research Competition, Poster, Reception

Time: 5:15 PM - 7:00 PM

Room: Four Seasons Ballroom

Authors: Vishal Chandra Sharma, Arnab Das, Ian Briggs, Ganesh Gopalakrishnan, and [Sriram Krishnamoorthy](#)

P89: Desh: Deep Learning for HPC System Health Resilience

Session: ACM Student Research Competition, Poster, Reception

Time: 5:15 PM - 7:00 PM

Room: Four Seasons Ballroom

Authors: Anwasha Das, [Abhinav Vishnu](#), [Charles Siegel](#), and Frank Mueller

P99: The Intersection of Big Data and HPC: Using Asynchronous Many Task Runtime Systems for HPC and Big Data

Session: ACM Student Research Competition, Poster, Reception

Time: 5:15 PM - 7:00 PM

Room: Four Seasons Ballroom

Authors: [Joshua Daniel Suetterlein](#), Joshua Landwehr, [Andres Marquez](#), [Joseph Manzano](#), [Kevin Barker](#), and Guang Gao

Wednesday, November 15, 2017

Featured Presentation

Data Vortex Network: From Small Packets to High Performance

Time: 11:30 AM – 12:15 PM

Room: Colorado Convention Center, DOE Booth 613

Key Presenter: [Ryan Friese](#)

Birds of a Feather

15th Graph500 List

Time: 12:15 – 1:15 PM

Room: 605

Session Leaders: Rich Murphy, David Bader, Peter Kogge, and [Andrew Lumsdaine](#)

Papers

Exploring and Analyzing the Real Impact of Modern On-Package Memory on HPC Scientific Kernels

Session: Hierarchical Memory Usage

Time: 11:00 AM – 11:30 AM

Room: 301-302-303

Authors: [Ang Li](#), Weifeng Liu, Mads R. B. Kristensen, Brian Vinter, Hao Wang, Kaixi Hou, [Andres Marquez](#), and [Shuaiwen Leon Song](#)

Representative Path Analysis

Session: Performance Evaluation Tools

Time: 2:00 PM – 2:30 PM

Room: 402-403-404

Authors: [Nathan Tallent](#), Darren Kerbyson, and Adolfo Hoisie

Friday, November 17, 2017

Workshops

WOLFHPC: Workshop on Domain-Specific Languages and High-Level Frameworks for High-Performance Computing

Time: 8:30 AM – 12:00 PM

Room: 405

Organizers: [Sriram Krishnamoorthy](#), J. Ramanujam, and P. Sadayappan

<http://hpc.pnl.gov/conf/wolfhpc/2017/>

Panel

Silent Errors in HPC Systems

Time: 8:30 AM – 10:00 AM

Room: 201-203

Moderator: Krishna Kant

Panelists: Devesh Tiwari, [Sriram Krishnamoorthy](#), Mattan Erez, Taieb Znati, and Dorian Arnold