



# HPC User Forum Agenda

## 61<sup>st</sup> HPC User Forum

September 6-8, 2016 – Austin, Texas

### Tuesday, September 6, 2016

- 5:00pm Registration Starts  
6:30pm Welcome and Special Dinner Reception Event

### Wednesday, September 7, 2016

- 7:15am Networking Breakfast  
8:15am Meeting Welcome and Announcements: Paul Muzio, Rupak Biswas, Earl Joseph and Steve Conway  
8:30am HPC Market Update and New ROI with HPC Results: Earl Joseph  
**Session Chair: Paul Muzio, City University of New York**  
8:45am **Exascale Initiatives Around the World**
- Europe's HPC Strategy: Leonardo Flores (European Commission)
  - The DOE Exascale Computing Project: Paul Messina (ECP)
  - Japan's Post-K Computer: Yutaka Ishikawa (RIKEN)
- 10:15am Break  
10:45am HPC in the Cloud, Robert Graybill, Nimbis Services  
11:15am EMC HPC Technology Update  
11:30am Why use Tables and Graphs for Knowledge Discovery System? John Feo (PNNL)  
12:00am Vendor Technology Update: Intel  
12:15pm Networking Lunch  
1:15pm **Focus Area: HPC Performance Metrics**
- Measuring HPC Performance, Cost and Value, Andy Jones (NAG)
  - Analysis of Intel SSDs on SGI UV 300, Nikos Trikoupis, City University of New York
- 2:15pm Dell Vendor Technology Update  
2:30pm A Consolidated HPC Environment: Challenges & Benefits, Ramesh Krishnan of Orbital ATK  
3:00pm Networking Break  
**Session Chair: Paul Muzio, City University of New York**  
3:15pm **Focus Area: Addressing the Critical Issue of HPC Workforce Development**
- Data Center Management Minor at UT-Knoxville: Bridging the Gap between Computing and Facilities, Jim Serafin (ORNL)
  - Computational Science Education at the Technical University of Munich, Hans-Joachim Bungartz (Technical University of Munich)
  - HPC Curriculum at TACC: Melyssa Fratkin
  - Preparing Students for HPC Careers in the Energy Sector: Jan Odegard, Rice University
- 5:15pm Networking Break  
6:30pm Special Dinner Event: Live music, astronomers and telescopes



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### Thursday, September 8, 2016

7:15am Networking Breakfast

8:15am Welcome: Paul Muzio, Rupak Biswas, Earl Joseph and Steve Conway

8:20am IDC New Research: Tracking Worldwide HPC R&D Efforts: Earl Joseph

**Session Chair: Arno Kolster, PayPal**

8:30am **Focus Area: Emerging Technology Trends: High Performance Data Analysis**

- Rescuing Lost History: Using Big Data to Recover Black Women's Lived Experiences: Ruby Mendenhall (University of Illinois)
- Lexis-Nexis Active Insights Program: Flavio Villanustre (Lexis-Nexis)

9:30am HPE Vendor Technology Update

9:45am IDC Research on Cyber Security, Bob Sorensen

10:00am Networking Break

10:30am Aerospace CFD: Past, Present and Future, Doug Ball

11:00am Disruptive Technologies Panel & Updates

12:15pm Networking Lunch

**Session Chair: Keith Gray**

1:15pm **Focus Area: HPC in the Oil and Gas/Energy Sector**

- Introduction to HPC in Oil and Gas: Keith Gray (BP)
- Exploration Seismology and the Return of the Supercomputer: Sverre Brandsberg-Dahl (PGS)
- The Value of Imaging in the Oil and Gas Market: Scott Michell (BP)

2:45pm Networking Break

3:15pm **Focus Area: HPC in the Oil and Gas/Energy Sector**

- Learning From Each Other: Cooperative R&D With Total at ORNL, David Bernholdt (ORNL)
- Connections between Seismic Imaging Technology and Computing: John Etgen (BP)
- Panel Discussion of the Trends in the Oil and Gas Sector

5:00pm Meeting Wrap-Up, Paul Muzio, Rupak Biswas, Earl Joseph and Steve Conway