



**Agenda**  
53<sup>rd</sup> HPC User Forum  
RIKEN, Kobe Japan  
Wednesday, July 16, 2014  
*Hosted by AICS*



**8:30am Registration starts in the lobby**

**9:00am Meeting Welcome and Announcements**

- Riken welcome, Kimihiko Hirao, AICS
  - HPC User Forum Introduction and Welcome, Earl Joseph
  - HPC Market Overview and a New Japanese Panel, Earl Joseph and Steve Conway
- Morning Session Leader: Paul Muzio

**9:30am RIKEN Overview, Akira Ukawa, AICS**

**10:00am New Uses of HPC and Supercomputers (20 minute updates)**

**This session will focus on new or expanding areas for applying HPC technologies and systems to address important issues to society, industry and research.**

- Introduction by Steve Conway on a mix of new use case examples coming from the merging of big data and HPCD aka HPDA
- HPC Update, Kozo Fujii, JAXA
- The Growth of HPC Industrial Partnerships in the U.S. and Europe, Merle Giles, National Center for Supercomputing Applications
- 15 minute break
- Big Data Assimilation for Revolutionizing Weather Prediction, Takemasa Miyoshi, RIKEN AICS
- The Expansion of CFD in the Aerospace Industry, Doug Ball, Boeing
- New Directions in Large Scale Computing and Big Data from a US National Perspective, Dimitri Kusnezov, US Department of Energy

**12:30pm Lunch**

Afternoon Session Leader: Doug Ball

**1:30pm Updates from HPC and the New Supercomputer Centers (20 minute updates)**

- Earth Simulator and the New Center at JAMSTEC, Makoto Tsukakoshi, JAMSTEC
- HPC Use in Korea, Jysoo Lee, National Institute of Supercomputing & Networking
- Update on HPC in Poland, Marek Niezgodka, ICM/University of Warsaw
- Designing for Urban Resiliency in an Era of Climate Change, Paul Muzio, City University of New York

**3:30pm Fujitsu Technology Update**

**3:45pm Break and Tour of the K Computer / Visitor's hall for K computer / Group Photo**

**4:30pm New and Disruptive Technologies: Brief Updates**

Vendors will briefly (5 minutes) present future technologies that could make major changes to the HPC market.

- Earl Joseph will summarize the April disruptive panel including quantum computing
- Invited vendors: Fujitsu, NEC, DDN, Panasas, etc.

**5:00pm Challenges towards Post-Peta/Exascale Computing at Information Technology Center, the University of Tokyo, Kengo Nakajima, the University of Tokyo**

**5:30pm New Benchmark Directions, Robert Meisner, US Department of Energy**

**6:00pm Meeting Summary and Wrap Up**

**6:05pm Networking time and Time for 1-on-1 Meetings**

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