

The Convergence of High Performance Computing, Big Data, and Machine Learning

Natcher Conference Center, National Institutes of Health, Bethesda, MD
October 29-30, 2018

Agenda

Day One: Balcony A

8:15 **Welcome and Introductions**

- Opening Remarks: Lynne Parker, OSTP
- Keynote – Jim Kurose, NSF

9:00 **Session I: Current Landscape/Use Cases/Applications**

- Moderator: Susan Gregurick, NIH
- Panelists: Pete Beckman, ANL; Tony Hey, STFC, UK; Warren Kibbe, Duke; Jeff Schneider, Uber

11:30 *Lunch*

12:30 **Session II: Software Challenges and Opportunities**

- Moderators: Chaitan Baru, UCSD; Randy Bryant, CMU
- Panelists: Alex Aiken, Stanford; Fabrizio Petrini, Intel; Raghu Ramakrishnan, Microsoft; Fred Streitz, LLNL

1:50 **Session III: Hardware Challenges and Opportunities**

- Moderator: Barry Schneider, NIST
- Panelists: Bill Kramer, UIUC; Karl Schultz, UT Austin; Arjun Shankar, ORNL; Rick Stevens, ANL; Rangan Sukumar, Cray

3:10 *Break*

3:30 **Session IV: Modes of Operation Challenges and Opportunities**

- Moderators: Laura Biven, DOE; Sandy Landsberg, DoD
- Panelists: Debbie Bard, NERSC; Fernanda Foertter, NVIDIA; Ian Foster, ANL; Sanjay Padhi, Amazon; Dan Stanzione, UT Austin

4:50 **Wrap up Day #1**

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Day Two: Room E1-E2

8:30 **Welcome and Introduction to Break-outs**

8:45 **Breakout Round #1**

- Room A: Modes of Operation, Breakout Lead, Robert Hanisch, NIST
- Room B: Software, Breakout Lead, TBD
- Room J: Hardware, Breakout Lead, William Gropp, UIUC

9:45 *Break*

10:00 **Breakout Round #2**

- Room A: Modes of Operation, Breakout Lead, Robert Hanisch,
- Room B: Software, Breakout Lead, TBD
- Room J: Hardware, Breakout Lead, William Gropp

11:00 *Break*

11:15 **Session V: Report out and Introspection** (Room E1-E2)

- Moderator: Kamie Roberts, NITRD
- Panelists: Randy Bryant/Chaitan Baru, Laura Biven/Sandy Landsberg, Tony Hey, Barry Schneider

12:00 PM **Closing remarks**