

# April 9<sup>th</sup> & 10<sup>th</sup> Reston, VA

## 84<sup>th</sup> HPC User Forum Agenda

### Tuesday, April 9<sup>th</sup>

**7:15 – 8:00 am Breakfast and Badging**

**8:00 – 8:30 am Welcome and Meeting Overview**

- Welcome & Logistics, Piyush Mehrotra and Earl Joseph
- HPC Market Update, Earl Joseph

*(Session Leader: Nick Wright, LBL)*

**8:30 – 10:45 am Government Programs Supporting HPC, AI and QC**

- 8:30 – 9:00 am US DOE Office of Science New Programs and Updates, Ceren Susut-Bennett, Department of Energy Office of Science
- 9:00 – 9:30 am Democratizing Access to AI resources through the National AI Research Resource (NAIRR) Pilot, Katie Antypas, NSF
- 9:30 – 10:00 am Chips and Science Program Updates, Stephen Ezell, ITIF
- *Break: 10:00 – 10:15 am*
- 10:15 – 10:45 am New Activities at Sandia National Laboratory, Siva Rajamanickam, SNL

**10:45 – 11:15 am The Making of Data Center Alley – How Loudoun Virginia became the Heart of the Internet**, Buddy Rizer, Executive Director, Dept of Economic Development for Loudoun County, Virginia

**11:15 – 11:30 am Vendor Update, The Need for a New Storage Architecture: Hyperscale NAS**, Rob Renzoni, Hammerspace

**11:30 – 12:00 pm New Research on Quantum Computing**, Bob Sorensen, Hyperion Research

**12:00 – 1:00 pm Lunch**

*(Session Leader: Elizabeth L'Heureux, BP)*

**1:00 – 2:00 pm Updates on Using HPC and AI in Industry**

- Nissan's Use of HPC, Simran Kumari, Nissan
- BP Center for High Performance Computing (CHPC) Capabilities and Success Stories, Elizabeth L'Heureux, BP

**2:00 – 3:00 pm Innovative Technologies Panel: DDN, Intel, MemVerge, NextSilicon**

**3:00 – 3:15 pm Vendor Update: Chris Maestas, IBM**

**3:15 – 3:45 pm Break**

**3:45 – 5:30 pm The Need for Greater Diversity and Ways to Increase Diversity in HPC/AI**

Short presentations followed by a panel discussion:

- Melyssa Fratkin, TACC (moderator)
- Candy Culhane, LANL
- Dorian Arnold, Emory University
- Kathryn Kelley, CASC (The Coalition for Academic Scientific Computation)
- Jay Lofstead, Sandia National Laboratory
- Panel Discussion

**5:30 – 6:00 pm Break**

**6:00 – 8:30 pm Special Dinner Event and Presentation: Earth System Digital Twins**, Dr. Jacqueline Le Moigne, NASA Earth Science Technology Office

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# April 9<sup>th</sup> & 10<sup>th</sup> Reston, VA

## 84<sup>th</sup> HPC User Forum Agenda

### Wednesday, April 10<sup>th</sup>

**7:15 – 8:00 am Breakfast and Badging**

**8:00 – 8:15 am Welcome and Meeting Logistics**

*(Session Leader: Piyush Mehrotra, NASA)*

**8:15 – 11:15 am HPC Site Updates:**

- 8:15 – 8:45 am LBL Update and NERSC-10, Nick Wright, LBL
- 8:45 - 9:15 am ANL Update, Dave Martin, ANL
- 9:15 – 9:45 am Update on Leadership Computing in Europe, Leonardo Flores, EU (video presentation)
- *Break: 9:45 – 10:15 am*
- 10:15 – 10:45 am Update on HPC, Quantum and AI in Japan at Riken, Satoshi Matsuoka (video presentation)

**10:45 – 11:15 am HPC and AI at Homeland Security, Adam Cox, DHS**

**11:15 – 11:30 am Vendor Update: HPE**

**11:30 – 11:45 am Key Findings of Surveys on Cloud Computing for Engineering Simulation, Wim Slagter, Ansys**

**11:45 – 12:00 pm Vendor Update: Dave Turek, CATALOG**

**12:00 – 1:00 pm Lunch**

*(Session Leader: David Martin, ANL)*

**1:00 – 1:30 pm Future Technologies, Tarek El-Ghazawi, George Washington University**

**1:30 – 1:45 pm Benchmarking Large Language Models for Federal Government Applications, Luca Longoni, FedData Technology Solutions**

**1:45 – 2:00 pm Vendor Update: Blake Gonzales, Oracle, and Devin Jensen, Montis**

**2:00 – 2:30 pm Overview of the Coalition for Academic Scientific Computation, Kathryn Kelley, CASC**

**2:30 – 3:00 pm Break**

**3:00 – 4:15 pm New Directions and Activities in AI & Large Language Models:**

- 3:00 – 3:30 pm Advancing Technology, Innovation and Partnerships, Erwin Gianchandani, NSF
- 3:30 – 3:45 pm Arun Majumdar, Permion
- 3:45 – 4:15 pm Dr. Yindalon Aphinyanaphongs, NYU Langone

**4:15 – 4:45 pm Recent developments from the NIST HPC Security Working Group, including the release of NIST SP 800-223 and updates on other ongoing activities, Yang Guo, Computer Security Division, NIST**

**4:45 – 5:00 pm Conclusions, Piyush Mehrotra and Earl Joseph**

**5:00 – 5:15 pm Break**

**5:15 – 7:00 pm Special Event: *Networking Time & Cocktail Reception***

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