

September 9th & 10th ANL, IL

92nd HPC User Forum Agenda

Wednesday, September 9th

- 7:15 – 8:00 am** **Registration and Breakfast**
- 8:00 – 8:15 am** **Welcome, Logistics and Meeting Overview**, Laura Schulz, ANL, Piyush Mehrotra, HPC User Forum Chairman, Rupak Biswas, HPC User Forum Vice-Chairman, Earl Joseph, Hyperion Research
- 8:15 – 8:30 am** **New Trends in the HPC/AI Market**, Earl Joseph, CEO, Hyperion Research
- Best Practices in Using AI-for-Science**
(Session Leader: Bob Sorensen)
- 8:30 – 9:00 am** **AI-for-Science at ANL**, Rick Stevens, Associate Laboratory Director, Argonne National Laboratory (remote)
- 9:00 – 9:30 am** **Best Practices When Programming with AI**, Keita Taranishi, Group Leader, Programming Systems, ORNL
- 9:30 – 9:45 am** **Technology Showcase: HPE**
- 9:45 – 10:15 am** **Break**
- 10:15 – 10:45 am** **Prompt Engineering for HPC Vibe Coding**, David Keyes, Professor, Applied Mathematics and Computational Science, KAUST (remote)
- 10:45 – 11:00 am** **Technology Showcase: AMD**
- 11:00 – 11:45 am** **Panel: Best Practices in Using AI-for-Science**
- 11:45 – 12:00 pm** **Technology Showcase: Jay Boisseau, Google**
- 12:00 – 1:00 pm** **Lunch**
- International HPC & AI-for-Science Updates**
(Session Leader: Brendan McGinty)
- 1:00 – 1:30 pm** **HPC and AI-for-Science at NASA**, Donovan L. Mathias, Division Chief, NASA Ames Research Center
- 1:30 – 2:00 pm** **Early Results on the New SiPearl Processor**, Craig Prunty, Vice-President Marketing & Business Development, SiPearl
- 2:00 – 2:30 pm** **EU AI Factories and Giga Factories Update**, TBD
- 2:30 – 3:00 pm** **Break**
- 3:00 – 3:30 pm** **CEA Site Update**, Jean-Philippe Nominé, HPC Strategic Collaborations Manager, CEA
- 3:30 – 4:00 pm** **Technology Showcase: WEKA**
- 4:00 – 4:30 pm** **AI and HPC at NSF: STRIDE AI Efficiency Challenge, Unlocking Dataset Value for AI-Enabled Scientific Discovery, AI-Ready America and AI Institutes**, David Tennenhouse, NSF
- 4:30 – 5:00 pm** **Computing at Argonne National Laboratory: Past, Present, and Future**, Mike Papka, Deputy Associate Laboratory Director, ANL
- 6:00 – 8:30 pm** **Dinner and Tour of the Advanced Photon Source (APS)**

Thank you to our sponsors:

Alice & Bob		AMD		CPC		CTG		Dell		DDN
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Thursday, September 10th

7:15 – 8:00 am	Registration and Breakfast
8:00 – 8:15 am	Welcome and Meeting Logistics
	<u>New Directions in Quantum Computing</u>
	<i>(Session Leader: Piyush Mehrotra)</i>
8:15 – 8:45 am	Quantum Computing at ANL Update , Laura Schulz, Project Lead for Innovation, ANL
8:45 – 9:00 am	Technology Showcase: A Playbook for Integrating Quantum Into HPC , Victor Kerros and Paul Kassebaum, Alice & Bob
9:00 – 9:30 am	New Quantum Computing Insights , Bob Sorensen, Chief Analyst for Quantum Computing, Hyperion Research
9:30 – 9:45 am	Technology Showcase : Ron Bewtra, IQM
9:45 – 10:15 am	Break
10:15 – 10:45 am	Progress on the New Tool for Evaluating the On-prem & Cloud Fit for Research Projects , TBD, PNNL
10:45 – 11:15 am	The Use of AI & HPC in the Automotive Sector , Sharan Kalwani, IEEE
11:15 – 11:30 am	Technology Showcase : Intel
11:30 – 12:00 pm	Enhancing the Cybersecurity Posture of Commercial Critical Infrastructure , John Garstka, OUSD Acquisition and Sustainment, DOW/DOD (remote)
12:00 – 1:00 pm	Lunch
	<u>DOE Genesis, HPC & AI-for-Science Updates</u>
	<i>(Session Leader: David Martin)</i>
1:00 – 1:30 pm	Nuclear Energy's Role in the DOE Genesis Mission , Rian Bahran, Deputy Assistant Secretary for Nuclear Reactors, DOE
1:30 – 2:00 pm	DOE Office of Science HPC & AI Update , Benjamin Brown, Director, Facilities Division, DOE
2:00 – 2:30 pm	Sandia National Laboratory Update , Doug Kothe, Chief Research Officer, SNL
2:30 – 2:45 pm	Technology Showcase : New Interconnects at Cornelis Network, Charles Archer, Cornelis Network
2:45 – 3:15 pm	Break
3:15 – 3:45 pm	HPC & AI-for-Science at ANL , Valerie Taylor, Director of Mathematics and Computer Science Division, Argonne National Laboratory
3:45 – 4:15 pm	Genesis Mission and ORNL Update , Arjun Shankar, NCCS Director, ORNL
4:15 – 5:15 pm	An Overview of Research at Argonne National Laboratory • ANL User Success Story #1 • ANL User Success Story #2
5:15 – 5:30 pm	Break
5:30 pm	Special Group Dinner with the Exascale Round Table Team

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