



May 5th & 6th Austin, TX

91st HPC User Forum Agenda

Tuesday, May 5th

- 7:15 – 8:00 am** Registration and Breakfast
- 8:00 – 8:15 am** Welcome, Logistics and Meeting Overview, Piyush Mehrotra, Rupak Biswas and Earl Joseph
(Session Leader: Piyush Mehrotra)
- 8:15 – 8:30 am** New Trends in the HPC/AI Market, Earl Joseph, CEO, Hyperion Research
- 8:30 – 9:00 am** The Confluence of HPC, AI and Quantum Computing, Sudip Dosanjh, Director National Energy Research Scientific Computing Center (NERSC), Lawrence Berkeley National Laboratory
- 9:00 – 9:30 am** Using AI at NASA, Sujit Roy, Lead Researcher AI, NASA
- 9:30 – 10:00 am** Break
- 10:00 – 10:30 am** Site Update: Barcelona Supercomputing Centre, Fabrizio Gagliardi, Senior Advisor, Barcelona Supercomputing Centre
- 10:30 – 10:45 am** Vendor Update: HPE
- 10:45 – 11:15 am** Site Update: Omar Ghattas, Professor and Cockrell Chair in Engineering, University of Texas (Presentation title TBD)
- 11:15 – 11:45 am** LANL HPC & AI Platform Update: Ben Santos, HPC Platform Program Director, Los Alamos National Laboratory
- 11:45 – 12:00 pm** Vendor Update: QuEra
- 12:00 – 1:00 pm** Lunch
(Session Leader: Elizabeth L'Heureux, Head of HPC, BP)
- Successful Uses of HPC & AI in the Energy Sector:**
- 1:00 – 1:20 pm** Using HPC in the Oil/Gas Sector at BP, Elizabeth L'Heureux, Head of HPC, BP
- 1:20 – 1:40 pm** Using HPC in the Oil/Gas Sector at Total, Keith Gray, VP Computational Science and Engineering, TotalEnergies
- 1:40 – 2:00 pm** Using HPC in the Oil/Gas Sector at Shell, Michael Gujral, Shell
- 2:00 – 2:20 pm** Using HPC in the Oil/Gas Sector at Chevron, Alex Loddoch, Chevron
- 2:20 – 2:45 pm** Break
- 2:45 – 3:05 pm** From Co-Design to Scale: Delivering Bespoke HPC for Industrial Workloads, Riju John, HPC Technology Director Viridien Group
- 3:05 – 3:20** Vendor Update: Intel
- 3:20 – 4:10 pm** Panel: Successful Uses of AI in Technical Computing (*Moderator: Bob Sorensen*)
- Elizabeth L'Heureux, Head of HPC, BP
 - Keith Gray, VP Computational Science and Engineering, TotalEnergies
 - Michael Gujral, Shell
 - Alex Loddoch, Chevron Fellow, HPC, Chevron
 - Riju John, HPC Technology Director Viridien Group
- 4:10 – 4:40 pm** Quantifying the Continuum: Cost, Value, and Strategy for Hybrid Computing, Roger Cass and Scott Godwin, PNNL
- 4:40 – 4:45 pm** Vendor Update: Kevin Kissell, Alice and Bob
- 4:45 – 5:10 pm** A Community Tool for Measuring and Comparing the ROI and TCO for Technical Computing Projects, Jaclyn Ludema and Mark Nossokoff, Hyperion Research
- 5:10 – 6:00 pm** Break
- 6:00 – 8:30 pm** Dinner

Thank you to our sponsors

Alice + Bob		AMD		CTG Federal		DDN		FedData		Hammerspace
HPE		IBM		IQM		Intel		QuEra		Weka

May 5th & 6th Austin, TX

91st HPC User Forum Agenda

Wednesday, May 6th

- 7:15 – 8:00 am** **Registration and Breakfast**
- 8:00 – 8:05 am** **Welcome and Meeting Logistics**
(Session Leader: Brendan McGinty, NCSA)
- 8:05 – 8:30 am** **A Strategy for Introducing QC into a Classical HPC Ecosystem**, Bob Sorensen, Senior VP, Chief Analyst for Quantum Computing, Hyperion Research
- 8:30 – 9:00 am** **Site Update: HLRS**, Bastian Koller, Managing Director of the HPC Centre, HLRS
- 9:00 – 9:30 am** Peter Stone, Truchard Foundation Chair in Computer Science at UT Austin and Chief Scientist of Sony AI (Presentation title TBD)
- 9:30 – 10:00 am** **Break**
- 10:00 – 10:30 am** **Site update: Pawsey Supercomputing Centre**, Mark Stickells, CEO, Pawsey Supercomputing Centre
- 10:30 – 10:45 am** **Vendor Update: TBD**
- 10:45 – 11:00 am** **Innovation Spotlight:** Floyd Christofferson, VP, Product Marketing, Hammerspace
- 11:00 – 12:00 pm** **Panel: The Future of Precision in HPC: FP64, Reduced Precision, and Emulation**
(Moderator: Guy Ludden)
- Nicholas Malaya, Fellow, High Performance Computing, AMD
 - Reuben Budiardja, Computational Scientist, National Center for Computational Sciences at Oak Ridge National Laboratory
 - Harun Bayraktar, Senior Director of Software Engineering, Libraries, NVIDIA
- 12:00 – 1:00 pm** **Lunch**
(Session Leader: Rupak Biswas, NASA)
- 1:00 – 1:30 pm** **Designing High-Performance Middleware and Services for the Modern HPC and AI Era**, Dhableswar K (DK) Panda, Professor and University Distinguished Scholar, Ohio State University
- 1:30 – 2:00 pm** Dan Stanzione, Executive Director of the Texas Advanced Computing Center (TACC) and Associate VP for Research, University of Texas (Presentation title TBD)
- 2:00 – 2:15 pm** Sanjay Basu, Senior Director, GPU & Gen AI Solutions & Services, Oracle (Presentation title TBD)
- 2:15 – 2:30 pm** **Vendor Update: Weka**
- 2:30 – 3:00 pm** **A Decentralized Platform Designed to Run Artificial Intelligence Computations Across a Global Network of GPUs**, Anastasia Matuveeva, Product Lead, Product Science and Co-creator, Gonka Protocol
- 3:00 – 3:30 pm** **Break**
- 3:30 – 3:55 pm** **HPC in the Automotive Sector**, Sharan Kalwani, Industry Specialist
- 3:55 – 4:00 pm** **Vendor Update: DDN**
- 4:00 – 4:45 pm** **Panel: Texas Women in HPC** *(Moderator: TBD)*
- 4:35 – 5:15 pm** **HPC Highlights from the Artemis Program**, Derek Dalle, Aerodynamics Engineer, NASA
- 5:15 – 5:20 pm** **Conclusions**, Piyush Mehrotra and Earl Joseph
- 5:20 – 5:30 pm** **Break**
- 5:30 – 7:00 pm** **Special Event: Networking Time & Cocktail Reception**

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HPE		IBM		IQM		Intel		QuEra		Weka