

ECP Industry and Agency Council Meeting
Wednesday, January 31 - Thursday, February 1, 2024
TCS Conference Center - Building 240, Room 1416
Argonne National Laboratory



Wednesday, January 31, 2024		
Time	Topic	Speaker
7:45 AM	Shuttle Bus to Building 240 starts (every 10 minutes)	
8:00 AM	Breakfast (through Keynote)	
8:15 AM	Logistics	David Martin, Co-Executive Director, ECP Industry and Agency Council
Opening Keynotes		
8:30 AM	ECP Accomplishments and Learning	Lori Diachin, Director, Exascale Computing Project
9:00 AM	Exascale Application Development: Lessons Learned	Erik Draeger, Deputy Director, ECP Application Development
9:30 AM	Exascale Software Technology Accomplishments and Futures	Mike Heroux, Director, ECP Software Technology
10:00 AM	Welcome	Paul Kearns, Director, Argonne National Laboratory
10:05 AM	Break	
Lessons Learned and the Future of Software Technology		
10:30 AM	Spack: A Package Manager for HPC	Todd Gamblin, ECP Lead for Packaging Technologies
11:00 AM	E4S Deployment: Lessons Learned	Sameer Shende, PI, ECP Programming Models and Runtime SDK
11:30 AM	Programming Models and Performance Portability in ECP	Rajeev Thakur, Lead for Programming Models and Runtimes, ECP Software Technology
11:40 AM	Performance Portability of SYCL across Exascale Architectures	Abhishek Bagusetty, Computational Scientist, ANL
12:00 PM	C++, SYCL, Kokkos and Standardization	Nevin Liber, Computer Scientist, ANL
Lessons Learned in Porting ECP Applications to Exascale		
12:25 PM	Lesson Learned and Looking Ahead	Doug Kothe, Former Director, Exascale Computing Project
12:30 PM	Working Lunch: Lightning Talks from ECP Industry and Agency Council "Fast Followers" - TAE Use of WarpX, NOAA Use of E4S	<ul style="list-style-type: none"> • Sean Dettrick, Director of Computational Sciences, TAE Technologies • Tom Robinson, Physical Scientist, Geophysical Fluid Dynamics Lab, NOAA
1:30 PM	OpenMC	John Tramm, Computational Scientist, ECP ExaSMR Application Development Project
1:55 PM	EXAALT	Danny Perez, PI, EXAALT Application Development Project
2:20 PM	ExaSGD	Slaven Peles, co-PI, ExaSGD ECP Application Development Project
2:45 PM	Panel for Audience Questions	Andrew Siegel, Director, ECP Application Development Erik Draeger, Deputy Director, ECP Application Development
3:15 PM	Break	
3:45 PM	ExaSMR/CEED	Paul Fischer, Deputy Director, ECP Center for Efficient Exascale Discretizations (CEED)
4:10 PM	ExaWind	Jon Rood, Computational Scientist, ECP ExaWind Application Development Project
4:35 PM	E3SM	Xingqiu Yuan, Developer, ECP E3SM Application Development Project
5:00 PM	Panel for Audience Questions	Andrew Siegel, Director, ECP Application Development Erik Draeger, Deputy Director, ECP Application Development
5:30 PM	Optional Tour of Aurora (for those who aren't available on Thursday)	David Martin, Manager, Partnerships and Outreach, ALCF, ANL
Reception and Dinner		
5:30 PM	Shuttle Bus Starts Running to the Argonne Guest House (every 10 minutes)	
5:45 PM	Reception at the Argonne Guest House	
6:30 PM	Working Dinner at Argonne Guest House - Wonders of Integration: ECP, IRI, and the Future of DOE Computing	Ben Brown, Director, Facilities Division, DOE Advanced Scientific Computing Research
8:15 PM	Adjourn	

Thursday, February 1, 2024

Time	Topic	Speaker
7:45 AM	Shuttle Bus to Building 240 Starts (every 10 minutes)	
8:00 AM	Breakfast (through Panel)	
8:15 AM	Logistics	Suzy Tichenor, Co-Executive Director, ECP Industry and Agency Council
Exascale Impact and Looking Forward		
8:30 AM	Panel Discussion: Impact of Exascale on Commercial Software	Moderator: • Dave Kepczynski, former Chief Information Officer, GE Research Panelists: • Bob Lucas, Fellow, Ansys • Sam Mahalingham, Chief Technology Officer, Altair
9:15 AM	Software Stewardship: What's Next for DOE ASCR?	Robinson Pino, DOE Program Manager
9:45 AM	"Fast Follower" Case Study: DoD Use of E4S	Sean Ziegeler, Productivity, Enhancement and Training Technical Lead, DoD HPCMP
10:30 AM	Forming the High Performance Software Foundation	Todd Gamblin, Co-Founder, High Performance Software Foundation
11:00 AM	Break	
11:15 AM	What's Next for ALCF, NERSC, and OLCF?	• Katherine Riley, Director of Science, ALCF, ANL • Richard Gerber, HPC Department Head and Senior Science Advisor, NERSC, LBNL • Scott Atchley, Chief Technology Officer, OLCF, ORNL
11:59 AM	Argonne Training Program in Extreme Scale Computing	Ray Loy, ATPESC Program Director, ANL
12:00 PM	DEI Minute	Lois Curfman McInnes, Deputy Director, ECP Software Technology
12:05 PM	Working Lunch: AI for Science and Engineering	• Eliu Huerta, Lead for Translational AI and Computational Scientist, Data Science and Learning Division, ANL • Eric Tucker, Senior Director, GE Aerospace
1:15 PM	Panel Discussion: Impact of Exascale on Industry and Agencies	Moderator: • Fran Hill, Chief Scientist, High Performance Computing Modernization Program, Department of Defense Panelists: • Pete Bradley, Senior Fellow, Digital Tools and Data Science, Pratt and Whitney, RTX • Ihor Skrypyk, Global Manager, Data Science & AI, Global Technology & Operations, The Goodyear Tire & Rubber Company • Alex Loddoch, Chevron Fellow, Chevron Corporation
2:15 PM	Final Remarks	• Fran Hill, Co-Chair ECP Industry and Agency Council • Dave Kepczynski, Co-Chair ECP Industry and Agency Council • Lori Diachin, Director, Exascale Computing Project
2:30 PM	Open Discussions with ECP Leadership and Tours of Aurora	David Martin, Manager, Partnerships and Outreach, ALCF, ANL
4:00 PM	Adjourn	