

ECP Participation at SC23

Below you will find many of the ECP team members participating at SC23. ECP participation ranges from paper and poster presentations to panels, tutorials, workshops, Birds-of-a-Feather sessions, and invited talks.

November 12-17, 2023

Denver, Colorado

Please check the [SC23 website program schedule](#) for any changes in room assignments or times.

Just a few items we'd like to call out: (All times are listed as MST for Denver, CO)

- ECP Director Lori Diachin will be speaking at the SC23 media event, Monday at 12:30pm in Room 113.
- Lois McInnes is giving an Invited talk titled, "Broadening Participation in HPC: Together We Can Make a Difference" in the Mile High Ballroom, Thursday, at 9:20am.
- ECP Industry and Agency Council members will participate in a panel on "The Impact of Exascale and the Exascale Computing Project on Industry" in Rooms 201-203, Thursday at 3:30pm.
- The ECP leadership team will deliver a presentation in the DOE booth (booth #243), on Tuesday at 1:45pm.

WBS/Project(s)	Name(s) of participants	Date and Time Period for the Event (Please insert a row for each distinct event.)	Additional info, including hyperlink(s) if available	Confirm Event Acceptance by SC23
2.2.2.06 WarpX	Jean-Luc Vay Axel Huebl Andrew Myers Arianna Formenti Marco Garten	Paper presentation at session on Exascale Computing - Wed. Nov. 15: (<i>best paper finalist</i>) <i>Frontier: Exploring Exascale</i> Organization of ISAV23 - Mon. Nov. 13 Submitted talk : <i>State of In Situ Visualization in Simulations: We are fast. But are we inspiring?</i>	https://sc23.supercomputing.org/presentation/?id=pap464&sess=sess160	Approved
2.2.3.05 E3SM-MMF	Mark Taylor	Climate Gordon Bell Award, finalist	https://sc23.supercomputing.org/session/?sess=sess298	confirmed
2.3.3.07	Yang Liu Xiaoye Sherry Li Piyush Sao	Paper : Unified Communication Optimization Strategies for Sparse Triangular Solver on CPU and GPU Clusters. Wednesday, 15 November 2023 11am - 11:30am MST Location 401-402	https://sc23.supercomputing.org/presentation/?id=pap479&sess=sess157	confirmed
2.4.6.02 Productivity aka IDEAS-ECP	David Bernholdt Patricia A. Grubel Dav id M. Rogers Greg Watson	Tutorial : Better Software for Reproducible Science Sun 12 Nov 2023, 8:30am-5:00pm, Rm 403	https://sc23.supercomputing.org/presentation/?id=tut147&sess=sess225	confirmed
2.4.6.02 Productivity aka IDEAS-ECP	David Bernholdt Rinku Gupta Miranda Mundt Keita Teranishi along with non-ECP members Nasir Eisty, Mozghan Kabiri chimeh, Lauren E. Milechin, Alessandro Orso, Jeffrey Young	BoF : Scientific Software and the People Who Make it Happen: Building Communities of Practice Wed 15 Nov 2023, 5:15pm-6:45pm, Rm 505	https://sc23.supercomputing.org/presentation/?id=bof177&sess=sess375	confirmed
2.1.6.02 Industry Council (Industry and Agency Council)	David Martin Suzy Tichenor Fran Hill (DoD) Pete Bradley (Raytheon Technologies) Rick Arthur (GE) Sean Detrick (TAE Technologies) Mike Townsley (ExxonMobil)	Panel : The Impact of Exascale and the Exascale Computing Project on Industry	https://sc23.supercomputing.org/presentation/?id=pan128&sess=sess197	confirmed
2.3.3.01 STMS05-Extreme-scale Scientific xSDK for ECP	Piotr Luszczek	BoF : Mixed Feelings About Mixed Precisions (bof130s1)	TBD https://sc23.supercomputing.org/attend/schedule/	<input checked="" type="checkbox"/> Confirmed /Approved <input type="checkbox"/> SC23 scheduled slot available
2.3.3.01 STMS05-Extreme-scale Scientific xSDK for ECP	Ahmad Abdelfattah Hartwig Anzt Jack Dongarra Piotr Luszczek Stan Tomov	Workshop : Paper title: GPU-based LU Factorization and Solve on Batches of Matrices with Band Structure	https://sc23.supercomputing.org/post_type=page&p=3479&id=wksp122&sess=sess121	<input type="checkbox"/> Confirmed /Approved

2.3.3.01 STMS05-Extreme-scale Scientific xSDK for ECP	Phuong Nguyen Pratik Nayak Hartwig Anzt	Workshop: Paper title: Porting Batched Iterative Solvers onto Intel GPUs with SYCL	https://sc23.supercomputing.org/presentation/?id=ws_p3hpc111&sess=ses441	confirmed
2.2.1.02 ADSE11-NWChemEx: Tackling Chemical, Materials, & Biomolecular Challenges in Exascale	Bruce Palmer Ajay Panyala Abhishek Bagusetty Joseph Manzano Nitin. gawande	Workshop: Exa-MPI	https://sites.google.com/site/workshopexampi/	Approval pending
2.3.1.14 Pagoda: UPC++ /GASNet	Michelle Strout (HPE) Damian Rouson Paul Hargrove	Tutorial: Introduction to High-Performance Parallel Distributed Computing using Chapel, UPC++ and Coarray Fortran Sun, Nov 12 2023 8:30am - 12pm MT	https://sc23.supercomputing.org/presentation/?id=tut156&sess=sess235 or https://go.lbl.gov/sc23	<input checked="" type="checkbox"/> Yes, my participation has been approved /confirmed by SC23
2.3.1.14 Pagoda: UPC++ /GASNet	Dan Bonachea Johnny Corbino Paul Hargrove	Workshop: PAW-ATM Paper title: symPACK: A GPU-Capable Fan-Out Sparse Cholesky Solver Monday, November 13, 2023 3:30 - 3:54 MT Room 702	https://sc23.supercomputing.org/presentation/?id=ws_pawatm105&sess=ses449 or https://go.lbl.gov/paw-atm	Confirmed
2.2.2.03 ExaSMR with 2.2.2.06 CEED	Steven Hamilton Tom Evan Paul Romano Misun Min Elia Merzari (additional co-authors from both ExaSMR and CEED)	Gordon Bell Finalist: Exascale Multiphysics Nuclear Reactor Simulations for Advanced Designs Paper: Frontier: Exploring Exascale	https://sc23.supercomputing.org/2023/08/a-look-at-the-2023-gordon-bell-prize-finalists/ https://sc23.supercomputing.org/presentation/?id=pap464&sess=sess160	Confirmed. Gordon Bell presentation does not appear to have been scheduled yet.
2.3	Lois Curfman McInnes (representing SIAG-SC), Christine Harvey , Hatem Ltaief , Michela Taufer	BoF: Meeting HPC Community Needs: How SIGHPC, TCPP, and SIAG-SC join efforts to engage communities and deliver services (Wed, Nov 15, 12:15-1:15 pm MST)	https://sc23.supercomputing.org/presentation/?id=bof134&sess=sess408	Confirmed
2.3.1.07 Exascale MPI (MPICH)	Yanfei Guo Kenneth Raffanetti Hui Zhou Rajeev Thakur Others	Tutorial: Advanced MPI Programming (Mon, Nov 13, 8.30-5.00) BoF: MPICH: A High Performance Open-Source MPI Implementation (Wed, Nov 15, 5.15-6.45)	https://sc23.supercomputing.org/presentation/?id=tut120&sess=sess241 https://sc23.supercomputing.org/presentation/?id=bof110&sess=sess385	Confirmed
2.3.4.15. ExaIO (HDF5)	Suren Byna	BoF: HDF5: Building on 25 years of success BoF: Accelerating Storage IO to GPUs Workshop: PDSW23: 8th International Parallel Data Systems Workshop	https://sc23.supercomputing.org/presentation/?id=bof212&sess=sess354 https://sc23.supercomputing.org/presentation/?id=bof161&sess=sess333 https://sc23.supercomputing.org/presentation/?id=wksp115&sess=sess114	Confirmed

2.3.1.19 Argo	Kamil Iskra Maya Gokhale Kazutomo Yoshii	<p>Workshop co-chair: ROSS 2023: 13th International Workshop on Runtime and Operating Systems for Supercomputers</p> <p>Workshop co-organizer (Maya): MTSA '23 Memory Technologies, Systems, and Architectures (formerly MCHPC)</p> <p>Workshop PC Member (Maya, Kazutomo): H2RC '23 Ninth International <i>Workshop on Heterogeneous High-performance Reconfigurable Computing</i></p> <p>Paper (Maya): Technical program. "A Quantitative Approach for Adopting Disaggregated Memory in HPC Systems" First author Wahlgren</p> <p>Paper (Maya): RSDHA Workshop, "Accelerator integration in a tile-based SoC: lessons learned with a hardware floating point compression engine" First author Liu</p> <p>Paper (Kazutomo): PBMS Workshop, "Hardware Specialization: Estimating Monte Carlo Cross-Section Lookup Kernel Performance and Area"</p> <p>Research Poster (Maya): "Exploring Userspace Memory Mapping for RDMA-enabled Network-attached Memory" First author Faj</p>	https://events.cels.anl.gov/ross/2023/	Confirmed
2.3.2.12 Flang	Alexis Perry-Holby Pat McCormick	<p>Workshop co-organizers: LLVM-HPC2023: The Ninth Annual Workshop on the LLVM Compiler Infrastructure in HPC</p>	https://sc23.supercomputing.org/presentation/?id=wksp145&sess=sess137 https://llvm-hpc-2023-workshop.github.io/	Confirmed
2.3.1.17 OMPI-X	Matthew Dosanjh William (Whit) Schonbein	<p>Workshop: ExaMPI</p> <p>Monday, 13 November 2023 2pm - 5:30pm MST</p> <p>Room 503-504</p>	https://sc23.supercomputing.org/presentation/?id=wksp118&sess=sess117	Confirmed
2.3.1.17 OMPI-X	Jake Tronge Howard Pritchard	<p>Paper, ExaMPI workshop: Embedding Rust within Open MPI</p> <p>Monday, 13 November 2023 4:10pm - 4:30pm MST</p> <p>Room 503-504</p>	https://sc23.supercomputing.org/presentation/?id=ws_exampi109&sess=sess453	Confirmed
2.3.1.17 OMPI-X	George Bosilca	<p>BoF: Open MPI State of the Union</p> <p>Wednesday, 15 November 2023 12:15pm - 1:15pm MST</p> <p>Room 405-406-407</p>	https://sc23.supercomputing.org/presentation/?id=bof113&sess=sess362	Confirmed
2.3.1.17 OMPI-X	George Bosilca Aurélien Bouteiller Thomas Herault	<p>Tutorial: Fault-Tolerance for High-Performance and Big Data Applications: Theory and Practice</p> <p>Sunday, 12 November 2023</p> <p>All day</p> <p>Room 405</p>	https://sc23.supercomputing.org/presentation/?id=tut102&sess=sess227	Confirmed
2.3.2.08	Keren Zhou	<p>Receiving SIGHPC ACM Doctoral Dissertation Award</p>	https://www.sighpc.org/for-your-career/dissertation-award/2023-award-winner	