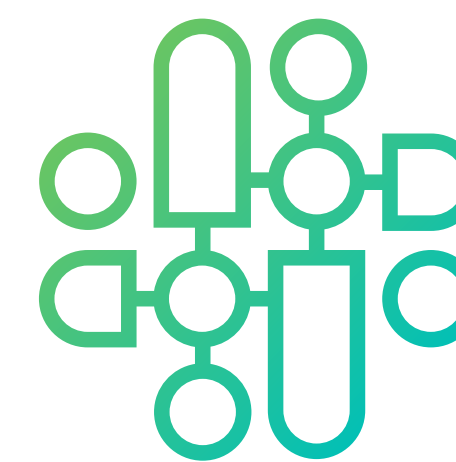


SC23 I AM HPC

SC23

2023 Chair
Dorian C. Arnold
Denver, CO



SC23
Denver, CO | i am hpc.

14,000+ Attendees



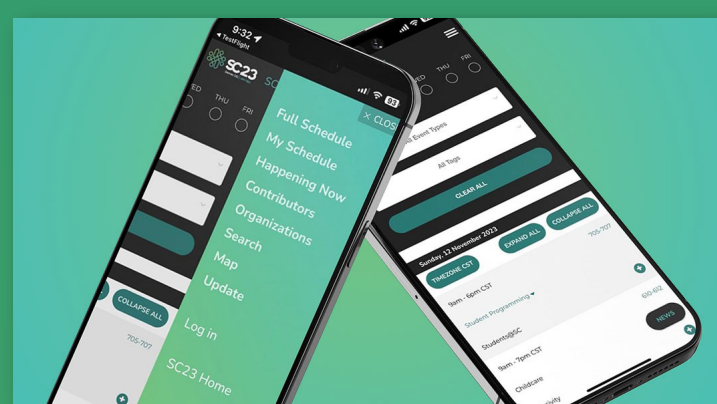
I Am HPC Blog Series

Over 75 individuals from the HPC community were featured in the SC23 blog to reinforce the conference theme and to put a face on HPC.



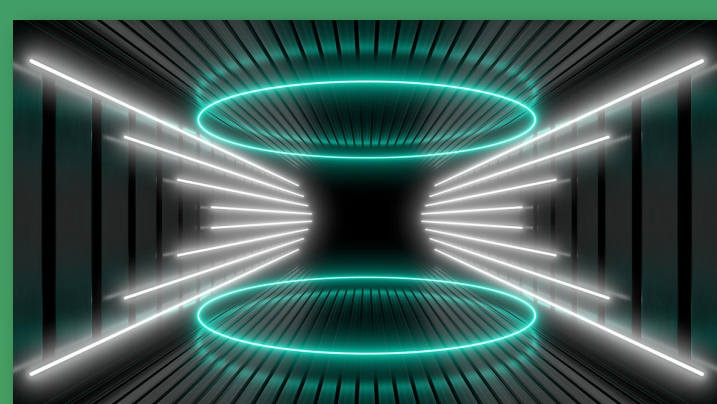
35 Years of SC

The 35th anniversary exhibit celebrates the SC Conference Series and "I Am HPC" by showcasing impactful people and technologies from the HPC community throughout the years.



Digital Experience

Fully integrated web and mobile platforms stream most of the SC23 content, bringing SC to all and uniting attendees whether they are in-person or remote.



HPC Pavilion

The HPC Illuminations Pavilion is a pilot initiative providing dedicated space on the exhibit floor for newly established or under-resourced teams that lack the means to exhibit their work at SC through the usual channels.

2023

Top Ten Supercomputers (Via TOP500 List, November 2023)

| | |
|----------|-------------------------|
| Frontier | Leonardo |
| Aurora | Summit |
| Eagle | MareNostrum 5 ACC |
| Fugaku | Eos NVIDIA DGX SuperPOD |
| LUMI | Sierra |

Test of Time Award

SC09 Paper: Millisecond-scale Molecular Dynamics Simulations on Anton

Authors: David E. Shaw, Ron O. Dror, John K. Salmon, J. P. Grossman, Kenneth M. Mackenzie, Joseph A. Bank, Cliff Young, Martin M. Deneroff, Brannon Batson, Kevin J. Bowers, Edmond Chow, Michael P. Eastwood, Douglas J. Jerardi, John L. Klepeis, Jeffrey S. Kuskin, Richard H. Larson, Kresten Lindorff-Larsen, Paul Maragakis, Mark A. Moraes, Stefano Piana, Yibing Shan, Brian Towles

Gordon Bell Prize

Large-Scale Materials Modeling at Quantum Accuracy: Ab Initio Simulations of Quasicrystals and Interacting Extended Defects in Metallic Alloys

Authors: Sambit Das, Bikash Kanungo, Vishal Subramanian, Gourab Panigrahi, Phani Motamarri, David Rogers, Paul M. Zimmerman, Vikram Gavini

ACM Gordon Bell Prize for Climate Modelling

The Simple Cloud-Resolving E3SM Atmosphere Model Running on the Frontier Exascale System

Authors: Mark A. Taylor, Luca Bertagna, Conrad Clevenger, James G. Foucar, Oksana Guba, Benjamin R. Hillman, Andrew G. Salinger, Peter M. Caldwell, Aaron S. Donahue, Noel Keen, Christopher R. Terai, Renata B. McCoy, David C. Bader, Jayesh Krishna, Danqing Wu, Matthew R. Norman, Sarat Sreepathi, James B. White III, L. Ruby Leung

Best Paper Award

PanguLU: A Scalable Regular Two-Dimensional Block-Cyclic Sparse Direct Solver on Distributed Heterogeneous Systems

Authors: Xu Fu, Bingbin Zhang, Tengcheng Wang, Wenhao Li, Yuechen Lu, Enxin Yi, Jianqi Zhao, Xiaohan Geng, Fangying Li, Jingwen Zhang, Zhou Jin, Weifeng Liu

Plenary Sessions

Keynote: A Quantum Life: My Unlikely Journey From the Street to the Stars

Speaker: Hakeem Oluseyi

I AM HPC Plenary: HPC's Human Impact and Future Directions

Moderator: Valerie E. Taylor

Panelists: Enobong (Anna) Branch, Mateo Valero, Katherine (Kathy) Yellick, Frank Indiviglio

SCinet Network Architecture

More than 200 volunteers representing 113 organizations from 9 countries planned, built, and operated SCinet.

- 6.71 terabits per second of wide area network capacity delivered
- WiFi 6E delivered throughout the convention center via 300+ access points