U.S. Department of Energy to Showcase Advances in Supercomputing and National Lab Expertise at SC22

The U.S. Department of Energy (DOE) celebrates the arrival of exascale computing and its impact on breakthrough science discoveries at SC22, the International Conference for High-Performance Computing, Networking, Storage and Analysis taking place Nov. 13–18 in Dallas.

For more than 60 years, the DOE national laboratories have developed and deployed many of the world's most powerful supercomputers. Researchers use these computing resources to tackle the most pressing scientific challenges, like climate change, national security, energy and public health.

"As the nation's leading provider of high-performance computers, the Department of Energy recognizes that exascale systems will provide the next generation of computing we need to accelerate research," said Barbara Helland, associate director, DOE Office of Science's Advanced Scientific Computing Research (ASCR) program. "Supercomputers play a critical role in advancing scientific understanding and ensuring our technical leadership, economic prosperity and national security."

Attendees at SC22 can learn from the experts at the DOE's national laboratories. They'll be leading tutorials, presenting technical papers, speaking at workshops, participating in birds-of-a-feather discussions and sharing ideas in panels. Labs will also be participating in the annual Job Fair.

The DOE booth (#1600) showcases the revolutionary scientific research happening at national laboratories. See how supercomputers are accelerating discoveries, integrating artificial intelligence, and creating simulations and visualizations. Check out artifacts tracing the evolution of computing nodes and graphics processing units, and browse videos that highlight what's happening at the labs.

Don't miss the featured talks and demos happening in the DOE booth Nov. 15–17. Topics include next-generation infrastructure, future supercomputing systems, and scientific research including that by a Gordon Bell Prize finalist. Scheduled speakers are noted below. Visit the DOE booth website (scdoe.info) for up-to-date information.