SC18 Birds of a Feather
"What the heck is HEC?"

November 13, 2018

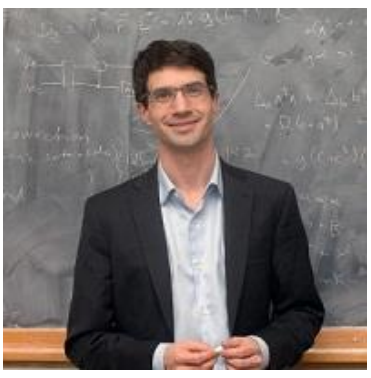
Kay Bailey Hutchison Convention Center (D168), Dallas, Texas

Moderator

Sandy Landsberg
Acting Director
DoD High Performance Modernization Office

Ms. Sandy Landsberg is the Acting Director of the DOD High Performance Computing Modernization Program (HPCMP) since May 2018. Prior to this, Ms. Landsberg was the Deputy Director of the HPCMP. Ms. Landsberg has over 25 years of experience within the federal government in high-performance computing. Ms. Landsberg has held various positions in the Department of Energy Office of Science Advanced Scientific Computing Research (ASCR) program, Department of Homeland Security (DHS), the Defense Threat Reduction Agency (DTRA), the Naval Surface Warfare Center (NSWC), and the Naval Research Laboratory (NRL).

Panel



Jacob Taylor
Assistant Director
Quantum Information Science
White House Office of Science and Technology Policy

Jake Taylor is the Assistant Director for Quantum Information Science at the White House Office of Science and Technology Policy. When not on detail there, he also co-directs the Joint Center for Quantum Information and Computer Science at the University of Maryland (QuICS), is a Fellow of the Joint Quantum Institute (JQI), and is a NIST Fellow at the National Institute of Standards and Technology (NIST). He is a Fellow of the American Physical Society and the recipient of the Department of Commerce Silver Medal, the IUPAP C15 Young Scientist Award, the Samuel J. Heyman Service to America Medal: Call to Service, the Presidential Early Career Award for Science and Engineering, and the Newcomb Cleveland prize of the AAAS. He has published more than 100 scientific papers, several book chapters, and holds a variety of patents in quantum technologies.

William Harrod
Program Manager
Intelligence Advanced Research Projects Activity

Dr. Harrod is a Program Manager at the Intelligence Advanced Research Project Activity (IARPA), which funds unique, innovative research in the private sector, academia, and non-profit organizations. He is currently developing new research programs in: 1) innovative computing architectures to address today's escalating massive, irregular data sets from heterogeneous sources; and 2) advanced modeling and simulation. He also directs the RAVEN program, which is developing analysis tools for imaging features on integrated circuit chips. As part of his previous work at both DARPA and DOE, Dr. Harrod initiated and led a series of groundbreaking exascale studies on the key technical challenges to advancing the capacity and capabilities of future high-performance computing systems. Dr. Harrod has over twenty years of experience in algorithm development, driving applications, and high-performance computing systems. His previous positions include: co-director of the National Strategic Computing Initiative (NSCI) Joint Program Office (JPO), Director of DOE's ASCR Research Division, Program Manager at DARPA, and Principal Engineer at Silicon Graphics, Inc. (SGI).

Chris Krieger
Lead Researcher
Laboratory for Physical Sciences
Department of Defense

Dr. Krieger serves as a lead researcher of the Neuromorphic Computation Research Program at the Laboratory for Physical Sciences, a federal research lab located at the University of Maryland. In this role, he researches special purpose hardware for machine learning and understanding. His eclectic prior research includes work on memory locality optimizations for irregular applications, design automation tools for asynchronous circuits, and instruments for measuring deformation of nuclear fuel rods. Dr. Krieger also has more than 15 years of industry experience designing and simulating microprocessors for Hewlett-Packard and Intel.

Barry Schnedier
Senior Staff Member
National Institute of Standards and Technology

Barry Schneider is a staff member of the NIST Applied and Computational Mathematics Division. In early 2014, he came to NIST as General Editor of the DLMF project after a long career at the Los Alamos National Laboratory and the National Science Foundation. He has authored or co-authored 135 refereed papers and books and has given numerous invited talks in the US and abroad. Schneider has served as Chair and Co-Chair of the APS Division of Computational Physics and Few Body Topical group and has been the organizer of a number of conferences and invited sessions here and abroad. He also serves as a reviewer for a variety of journals inside and outside the US.

Robinson Pino
Acting Division Research Director
Advanced Scientific Computing Program
Office of Science
Department of Energy

Dr. Robinson Pino is the Acting Division Research Director for the Advanced Scientific Computing Research (ASCR) program office in the U.S. Department of Energy's (DOE) Office of Science. In his portfolio, Dr. Pino focuses on revolutionary basic research and development efforts for high performance computing, cybersecurity, neuromorphic computing, artificial intelligence, photonics, microelectronics, and applications that will enable our continued leadership through exascale and beyond computing and energy efficient technologies. Dr. Pino has a Ph.D. and M.Sc. degrees in Electrical Engineering with honors from Rensselaer Polytechnic Institute and a B.E. in Electrical Engineering with honors, summa cum laude, from the City University of New York, City College. He is the recipient of numerous awards and professional distinctions; has published over 50 technical papers, including four books; and holds nine patents.

Ed Walker
Program Director
Office of Advanced Cyberinfrastructure
National Science Foundation

Edward Walker is a Program Director in the Office of Advanced Cyberinfrastructure at the National Science Foundation. He is the cognizant Program Office for the Leadership-Class Computing Facility program at NSF. He received his PhD in Computer Science from the University of York, United Kingdom, and a BEng (First Class Honors) in Microelectronics System Engineering from the University of Manchester, United Kingdom.

Andy Baxevanis
Director of Computational Biology
Intramural Research Program
National Institute of Health

Dr. Baxevanis is the Director of Computational Biology for the National Institutes of Health's Intramural Research Program, where his efforts focus on addressing computational issues of importance to the IRP. He currently leads several large-scale HPC planning initiatives aimed at meeting the ever-growing scientific and biomedical computing needs of over 1100 IRP principal investigators. He is also a Senior Scientist at NIH's National Human Genome Research Institute, where his research focuses on the sequencing of invertebrate genomes that can yield insights of relevance to human health, specifically aimed at addressing key questions related to regeneration, allorecognition, and stem cell biology.