



Agenda

Thursday, October 14, 2021

11:00am – 12:30pm — Cyberinfrastructure at Major Facilities

11:00-12:30pm

Panel Discussion on Cyberinfrastructure Challenges & Opportunities for Facilities in the 21st Century and Approaches to Cyberinfrastructure & Data Management

Cyberinfrastructure (CI), comprising computing, data, software, and networking and related expertise are critical components of most NSF major facilities and essential to their operations, equitable use, and overall impact. Architecting, deploying and operating a robust, secure, performant and scalable CI can be challenging, especially considering new security challenges/ threats, new and changing science needs, and rapidly evolving (and often disruptive) technology landscapes. Furthermore, emerging technologies can enable novel approaches for operating and using facilities. This session will include a panel and audience discussion on these CI challenges and opportunities for NSF facilities in the 21st century. The discussions will explore existing best practices, approaches for developing shared (and sustainable) CI services and for leveraging national CI services, as well as opportunities for transforming facilities' science through CI innovations.

Panel includes

Moderator: Manish Parashar, Director, Office of Advanced Cyberinfrastructure, NSF

David Halstead, Chief Information Officer at National Radio Astronomy Observatory, Federally Funded Research and Development Center (FFRDC)

Chad Trabant, Deputy Director of Data Services, Incorporated Research Institutions for Seismology

Inder Monga, Director for Scientific Networking Division, LBNL and Executive Director of ESN

Ewa Deelman, Director of CI-Compass, NSF CI Center of Excellence

Nicola Ferrier, Deputy Director of Sage, NSF Mid-Scale Research Infrastructure project

Ilya Baldin, PI and Project Director for FABRIC, NSF Mid-Scale Research Infrastructure project

12:30-2:00pm

Lunch Break

2:00 – 3:30pm — Cybersecurity at Major Facilities

2:00-3:30pm

Protecting Research from Foreign Influence, Espionage, and Intellectual Property Theft

Agent McGaunn will discuss the FBI's counterintelligence efforts against America's adversaries, evolving security challenges/threats, the nature of espionage as it relates to the theft of intellectual property at major facilities, research infrastructure and research institutes, and the challenges of illegitimate transfer of technologies.

Speaker: Scott McGaunn, FBI Special Agent

Panel Discussion on Cybersecurity at Major Research Infrastructures

Cyberinfrastructure (CI), comprising computing, data, software, and networking and related expertise are critical components of most major research infrastructure and essential to their operations, equitable use, and overall impact. As a result, addressing the growing cybersecurity concerns is essential to ensuring the secure and robust operation of these facilities.

This session will include a panel and audience discussion on these cybersecurity challenges at major research infrastructure in the 21st century and explore existing best practices and emerging solutions.

Panel includes:

Moderator: Manish Parashar, Director, Office of Advanced Cyberinfrastructure, NSF

Jim Ulvestad, Chief Officer for Research Facilities, NSF

Robert Beverly, Program Officer in Advanced Cyberinfrastructure, NSF

Benjamin Brown, Director of Facilities Division, Office of Advanced Scientific Computing Research, DOE

Mike Witt, Associate Chief Information Officer for Cybersecurity & Privacy and Senior Agency Information Security Officer, NASA