

# Agenda

## Monday, September 12, 2022

Time	Program
4:00-4:30 pm MDT	Virtual Poster Session
5:00-6:00 pm MDT	In-Person Pre-Registration & Social Gathering <i>Embassy Suites by Hilton Boulder</i>

## Tuesday, September 13, 2022

Time	Program						
8:00 am MDT	<b>Opening Remarks</b> Matthew Hawkins, Head, Large Facilities Office, NSF Linnea Avallone, Chief Officer for Research Facilities, NSF						
8:30 am MDT	<b>Introduction to the National Center for Atmospheric Research (NCAR)</b> Scott McIntosh, Deputy Director, NCAR						
9:00 am MDT	<b>Introduction to the National Ecological Observatory Network (NEON)</b> Paula Mabee, Chief Scientist and Observatory Director, NEON						
9:30 am MDT	Refreshment Break						
9:50 am MDT	<b>Mid-Scale Research Infrastructure: An NSF Overview</b> Roland Roberts, Deputy Chief Officer for Research Facilities, NSF Matthew Hawkins, Head, Large Facilities Office, NSF						
10:35 am MDT	<b>Outlook for the NSF and Federal Budgets</b> Beth Blue, Branch Chief, Budget Division, NSF						
11:05 am MDT	<b>Build America, Buy America. What “domestic preference” means to NSF major facilities and practical steps toward compliance.</b> Patrick Breen, Chief Acquisition Officer, NSF						
11:50 am MDT	<b>Lunch with Discussion Booths</b>						
	<table border="1"> <thead> <tr> <th>Mid-Scale Afternoon Track</th> <th>P/PM Track</th> <th>Facilities and Ops Track</th> </tr> </thead> <tbody> <tr> <td> <b>1:35 pm MDT Overview and Highlights of Mid-scale Research Infrastructure Activities at NSF</b>  Florence Rabanal, Large Facilities Advisor, LFO, NSF  Ryszard Kaczmarek, Large Facilities Advisor, LFO, NSF  Lisa Smith, Senior Grants Management Specialist for MSRI, Division of Grants &amp; Agreements (DGA), NSF  Jason Madigan, Supervisory Lead for Mid-scale Research Infrastructure, DGA, NSF  Shaun Minick, Branch Chief, Cost Analysis and Pre-award Branch, NSF </td> <td> <b>Agile Project Management</b>  Rick Farnsworth, Senior Science Advisor, Oak Ridge Associated Universities (ORAU) </td> <td> <b>Evolving NSF Requirement for Facilities Condition Assessments (FCA)</b>  Richard Oram, Large Facilities Advisor, LFO, NSF  Uzair Irfan, Senior Project Engineer, The Aerospace Corporation  Matthew Marshall, Systems Director, The Aerospace Corporation </td> </tr> </tbody> </table>	Mid-Scale Afternoon Track	P/PM Track	Facilities and Ops Track	<b>1:35 pm MDT Overview and Highlights of Mid-scale Research Infrastructure Activities at NSF</b> Florence Rabanal, Large Facilities Advisor, LFO, NSF Ryszard Kaczmarek, Large Facilities Advisor, LFO, NSF Lisa Smith, Senior Grants Management Specialist for MSRI, Division of Grants & Agreements (DGA), NSF Jason Madigan, Supervisory Lead for Mid-scale Research Infrastructure, DGA, NSF Shaun Minick, Branch Chief, Cost Analysis and Pre-award Branch, NSF	<b>Agile Project Management</b> Rick Farnsworth, Senior Science Advisor, Oak Ridge Associated Universities (ORAU)	<b>Evolving NSF Requirement for Facilities Condition Assessments (FCA)</b> Richard Oram, Large Facilities Advisor, LFO, NSF Uzair Irfan, Senior Project Engineer, The Aerospace Corporation Matthew Marshall, Systems Director, The Aerospace Corporation
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2:35 pm MDT	Break						

## Tuesday, September 13, 2022

Time	Program		
	Mid-Scale Afternoon Track	P/PM Track	Facilities and Ops Track
2:45 pm MDT	<p><b>Lessons Learned from Navigating Proposals and Awards from PI/PMs</b></p> <p>David Lazer, PI, Observatory for Online Human and Platform Behavior</p> <p>Michael Hoefling, PM, Observatory for Online Human and Platform Behavior</p> <p>Franko Bayer, PM, Zettawatt Equivalent Ultrafast Pulse Laser System (ZEUS, Center for Ultrafast Optical Science (CUOS), University of Michigan</p> <p>Qi Cheng, PM, Network for Advanced NMR (NAN, UConn Health</p> <p>Jeff Zivick, PM, Cosmic Microwave Background Stage 4 (CMB S4, University of Chicago</p> <p>Ernest Fontes, PM, High Magnetic Field (HMFx-ray Beamline Project, Cornell High Energy Synchrotron Source (CHESS)</p> <p>Jeannette Jackson, PM, Research Data EcoSystem (RDE), University of Michigan</p> <p>Bart Geerts, PI, Next Generation of Wyoming King Air Atmospheric Research Aircraft</p> <p>Matt Burkart, PM, Next Generation of Wyoming King Air Atmospheric Research Aircraft</p>	<p><b>Project Control System* Application to O&amp;M Awards</b></p> <p>Bill McVeigh, Co-Founder and President, Dash360</p> <p>Kevin Long, Co-Founder and CEO, Dash360</p>	<p><b>Facility Condition Assessment and Developing Property Lifecycle Maintenance Plans</b></p> <p>Rob Reid, Facility Management &amp; SAS Director, NCAR</p> <p>Denise Castro - Bran, Director Systems &amp; Operations Assurance Dept, The Aerospace Corporation</p> <p>Wei Hu, Space Environmental Test Management Office (SETMO), NASA/HQ</p>
3:45 pm MDT	Refreshment Break		
	Mid-Scale Afternoon Track	P/PM Track	Facilities and Ops Track
4:05 pm MDT	<p><b>Lessons Learned from NSF Mid-scale Program Officers</b></p> <p>Subhashree Mishra, GEO, NSF</p> <p>Kelsey D Cook, MPS/CHE, NSF</p> <p>Usha Varshney, ENG, NSF</p> <p>Sylvia J Spengler, CISE, NSF</p> <p>Allena Opper, MPS/PHY, NSF</p> <p>Jennifer Weller, BIO, NSF</p> <p>Nigel Sharp; MPS/AST, NSF</p> <p>Aranya Chakraborty, ENG, NSF</p>	<p><b>Benefits of Earned Value Management for Firm-Fixed Price Construction</b></p> <p>Kim Calvery, Research Programs Operations Officer, Oregon State University</p> <p>Rich Grubb, Project Management Specialist, Oregon Forecasting Inc</p> <p>Sam Steiman, Director, Power Services at MPR Associates, Inc</p>	<p><b>Dialogue on Recapitalization Opportunities and Challenges</b></p> <p>Matthew Hawkins, Head, Large Facilities Office, LFO, NSF</p> <p>Linnea Avallone, Chief Officer for Research Facilities, NSF</p> <p>Stella Osifo, Large Facilities Advisor, LFO, NSF</p>
5:05 pm MDT	Travel to MESA Lab		
6:00 pm MDT	<b>Welcome Reception at the Mesa Lab</b>		
7:00 pm MDT	End Day 1 of the Workshop		

\*NSF does not endorse the particular project control system presented

## Wednesday, September 14, 2022

Time	Program		
8:00 am MDT	<p><b>Part 1: Climate Change Resilience</b> Ann Kosmal, Climate Response Architect, Strategic Risk Management &amp; Resilience, Office of Federal High-Performance Buildings, GSA Matthew Hawkins, Head of Large Facilities Office, LFO, NSF</p> <p><b>Part II: ESO's Paranal Observatory Starts Receiving Energy from the Largest Solar Plant in Chile Dedicated to Astronomy</b> Roberto Tamai, Head of the ELT Programme, European Southern Observatory</p>		
9:00 am MDT	<p><b>Part III: Mitigating Climate Change: Planning for renewable energy sources</b> NSF's NOIRLab Sustainability Program (with focus on renewable energy) Bob Blum, Director for Operations, Rubin Observatory</p>		
9:30 am MDT	<p><b>The GAGE Geodetic Facility: Navigating a Changing Landscape of Funding, Staffing, and Operations</b> Rebecca (Becks) Bendick, President of UNAVCO, Inc.</p>		
10:00 am MDT	Refreshment Break		
10:20 am MDT	<p><b>National Solar Observatory (NSO) Introduction</b> Thomas Rimmele, Associate Director, NSO</p>		
10:50 am MDT	<p><b>Lesson Learned from DKIST Final Construction Review and the Closeout Process</b> Mark Warner, Project Manager, DKIST</p>		
11:20 am MDT	<p><b>Lunch</b> <b>Tour of NCAR's Research Aviation Facility *</b></p>		
2:00 pm MDT	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><b>Tour of GAGE *</b></td> <td style="width: 50%; border: none;"><b>Tour of NEON *</b></td> </tr> </table>	<b>Tour of GAGE *</b>	<b>Tour of NEON *</b>
<b>Tour of GAGE *</b>	<b>Tour of NEON *</b>		
4:10 pm MDT	<p><b>In-Person Poster Session (1 of 2)</b></p>		
5:00 pm MDT	Return to Embassy Suites. Walk to nearby Dairy Arts Center.		
6:00 pm MDT	<p><b>Networking Reception at the Dairy Arts Center</b></p>		
7:30 pm MDT	End Day 2 of the Workshop		

\* Those who pre-registered for the tour.

Please join your colleagues for a

# NETWORKING RECEPTION

on Wednesday, September 14 from 6:00pm - 7:30pm at the

## Dairy Arts Center

2500 Walnut (26th & Walnut)  
Boulder, Colorado

*You may walk to the Dairy Arts Center from the group hotel (or Uber). Cash bar onsite.*

## Thursday, September 15, 2022

Time	Program		
	Award Management Track	Communications/EPO Track	Facilities and Ops Track
8:00 am MDT	<p><b>NSF Schedule Guidance in the Research Infrastructure Guide (RIG)</b>                      Rebecca Yasky, Large Facilities Advisor, LFO, NSF</p> <p>Josh Wargo, Lead Project Controls Specialist – Technical Project Integration, MPR Associates, Inc.</p> <p>Sam Steiman, Director, Power Services, MPR Associates, Inc.</p>	<p><b>NSF Brand Outreach</b>                      Cori Bassett, Creative Services Branch Chief, Office of Legislative and Public Affairs (OLPA), NSF</p> <p>Lars Lindberg Christensen, Head of Communications, Education &amp; Engagement, NSF's NOIRLab</p>	<p><b>Disposition Options</b></p> <p><b>Part I: Shared Experiences from National Superconducting Cyclotron Laboratory (NSCL) on Transition from NSF to DOE</b>                      Jim Sowinski, Program Manager for Nuclear Physics Facilities, Office of Nuclear Physics, DOE</p> <p>Allena Opper, Program Director, Division of Physics, NSF</p> <p><b>Part II: Lessons Learned from Divestment of Oceanus and Endeavor</b>                      Rose M Dufour, Program Director, Division of Ocean Sciences, NSF</p>
9:00 am MDT	Break		
9:10 am MDT	<p><b>NSF Tools and Techniques for Addressing Accuracy, Precision and Uncertainty in Cost Estimates for Major and Mid-Scale Research Infrastructure Proposals</b>                      Tim Anderson, Director, Integrated Cost and Schedule Analysis Dept, The Aerospace Corporation</p> <p>Kevin Porter, Large Facilities Advisor, LFO, NSF</p> <p>Florence Rabanal, Large Facilities Advisor, LFO, NSF</p>	<p><b>The Role of Major and Mid-scale Research Infrastructure in Fueling the US STEM Workforce Pipeline – PreK-12</b>                      Tim Spuck, Director of Education &amp; Public Engagement, Associated Universities Inc (AUI)</p> <p>Sue Ann Heatherly, Senior Education Officer, Green Bank Observatory (GBO)</p> <p>Carlos R Villa, Director of K-12 Education Programs, National High Magnetic Field Laboratory</p> <p>Valarie Bogan, Curriculum Specialist, Office of Diversity and Inclusion, National Radio Astronomy Observatory (NRAO)</p> <p>John Ristvey, Director, Center for Science Education, University Corporation for Atmospheric Research (UCAR)</p>	<p><b>O&amp;M Budget Execution</b>                      Bob Blum, Director for Operations, Rubin Observatory</p> <p>Laura Slicer, Senior Manager, Finance, Ocean Observatories Initiative (OOI)</p> <p>John Maclean, Director of Central Operations Services, NSF's NOIRLAB</p> <p>Hannah Hansen, Business Manager, LIGO</p> <p>Daniel Calabrese, Senior Contracts Officer, AURA</p>
10:10 am MDT	Refreshment Break		

## Thursday, September 15, 2022

Time	Program		
	Award Management Track	Communications/EPO Track	Facilities and Ops Track
10:30 am MDT	<p><b>Practical Techniques for Addressing Escalation/Inflation (Materials and Labor Availability)</b>                      Josh Wargo, Lead Project Controls Specialist, MPR Associates, Inc                      Steven I Gallagher, Chief Operating Officer, UCAR                      Laura Slicer, Senior Manager, Finance, OOI</p>	<p><b>Leveraging Communications and Outreach Across Facilities</b>                      Cassandra Eichner, Public Affairs Specialist, OLPA, NSF                      Amy Oliver, NRAO/Atacama Large Millimeter/submillimeter Array (ALMA)                      Jill Malusky, Public Information Officer, GBO                      Ray Villard, Hubble News Chief, Space Telescope Science Institute (STScI), John Hopkins University                      Lars Lindberg Christensen, Head of Communications, NSF's NOIRLab                      Marti LaChance, Communications Manager, Natural Hazards Engineering Research Infrastructure (NHERI)</p>	<p><b>Operations and Management of NSF Major Facilities Best Practices and Lessons Learned</b>                      Paul Matthias, Senior Program Manager, Woods Hole Oceanographic Institution (WHOI), OOI                      Daniel Zehner, Facility Scheduling and Operations Coordinator, NHERI                      Krista Laursen, Assistant Director of Administration &amp; Strategic Implementation (Interim), NCAR                      Joel Brock, Director, Cornell High Energy Synchrotron Source (CHESS)                      Dan Stanzione, Associate Vice President For Research, The University of Texas Austin, and Executive Director, Texas Advanced Computing Center (TACC)</p>
11:30 am MDT	<b>Lunch with Discussion Booths and In-Person Poster Session (2 of 2)</b>		
	Award Management Track	Communications/EPO Track	P/PM Track
12:40 pm MDT	<p><b>Project Personnel and Competencies, and Research Infrastructure Guide (RIG) Section 4.6.6</b>                      Matthew Hawkins, Head, Large Facilities Office, NSF</p>	<p><b>Lessons Learned from the Pandemic and Virtual Education and Outreach</b>                      Darlene Trew Crist, Community Engagement Manager, OOI                      Summer Ash, STEAM Education Manager, NRAO                      Lyndele von Schill, Director of Diversity &amp; Inclusion, NRAO                      Jill Malusky, Public Information Officer, GBO                      Ardis Herrold, Education Specialist, Rubin Observatory                      Becca Hatheway, Senior Program Manager, UCAR SciEd                      Dan Zietlow, Educational Designer, NCAR Education, Engagement &amp; Early-Career Development Team, NCAR</p>	<p><b>Tailoring the Project Execution Plan for Mid-Scale Research Infrastructure Projects</b>                      Ryzard Kaczmarek, Large Facilities Advisor, LFO, NSF</p>
1:40 pm MDT	Break		

## Thursday, September 15, 2022

Time	Program		
	Award Management Track	Communications/EPO Track	P/PM Track
1:50 pm MDT	<p><b>Part I: Audit of NSF's Divestment of Major Facilities</b> Philip Emswiler, Audit Manager, Office of Inspector General, NSF Vashti Young, Audit Manager, Office of Inspector General, NSF</p> <p><b>Part II: Embracing the "D" word; Divestment to Disposition</b> Matthew Hawkins, Head, Large Facilities Office, NSF</p>	<p><b>Recruiting and Developing a Diverse Workforce</b> Faye Giles, Director of Human Resources and Former Diversity Officer, NRAO Neil Barker, Chief Human Resources Officer, UCAR Hannah Hansen, Business Manager, LIGO Ameerah McBride, Chief Diversity Officer, Association of Universities for Research in Astronomy (AURA)</p>	<p><b>Tips and Tricks for Developing a Schedule</b> Rebecca Yasky, Large Facilities Advisor, LFO, NSF Jennifer Falvey, Program Manager, U.S. Department of Commerce (DOC) Josh Wargo, Lead Project Controls Specialist, MPR Associates, Inc Sam Steiman, Director, Power Services, MPR Associates, Inc</p>
2:50 pm MDT	Refreshment Break		
3:10 pm MDT	<p><b>Lessons Learned from Title Transfer of Federally Owned Property: Outcomes, Challenges and Opportunities</b> Thaddeus Brown, Associated Universities Inc. (AUI) Florence Rabanal, Large Facilities Advisor, LFO, NSF Anna-Lee Misiano, Grants &amp; Agreements Specialist, Division of Acquisition &amp; Cooperative Support (DACs), NSF Timothy Kashmer, Grants &amp; Agreements Specialist, DACs, NSF Donna O'Malley, Directorate Administrative Coordinator (MPS), Directorate for Mathematical &amp; Physical Sciences, NSF</p>	<p><b>The Role of Major and Mid-scale Research Infrastructure in Fueling the US STEM Workforce Pipeline – Undergraduate and Graduate</b> Tim Spuck, Director of Education &amp; Public Engagement, Associated, AUI Kawana Johnson, Mentoring Director, The National High Magnetic Field Laboratory (NHMFL) Karina Vielma, Engineering Education Assistant Professor, University of Texas at San Antonio (UTSA) Danielle Rowland, Broadening Participation Student Programs Manager, Office of Diversity and Inclusion, NRAO</p>	<p><b>Best Practices Used by XSEDE to be Highly Successful with Project Management in a Large, Distributed Virtual Team</b> Leslie Froeschl, Senior Project Manager, National Center for Supercomputing Applications (NCSA), University of Illinois at Urbana-Champaign</p> <p><b>Project Management Lessons Learned Regarding Facility Timing and Capital Equipment Sourcing on "ZEUS" (Zettawatt Equivalent Ultrafast Pulse Laser System) project.</b> Franko Bayer, Project Manager, Center for Ultrafast Optical Science (CUOS), University of Michigan</p>
4:10 pm MDT	Coffee Break		
4:30 pm MDT	<b>Closing Remarks</b>		
4:45 pm MDT	End Main Workshop		

# Friday Specialty Workshops

This year, the Research Infrastructure Workshop includes four workshops on specialty topics following the main event. These require pre-registration to attend. Friday's events will be held at NCAR's Mesa Lab.

Friday, September 16, 2022		
Time	Program	
8:00 am MDT	<b>Cyber Infrastructure Workshop</b> Organized by CI Compass	<b>Safety Officer Workshop</b> Facilitated by LFO, NSF
12:00 pm MDT	<b>Lunch on Your Own</b> Mesa Lab Café	
1:30 pm MDT	<b>Cyber Security Officer Workshop</b> Organized by Trusted CI	<b>Science Communication Workshop</b> Facilitated by LFO and the Division of Astronomical Sciences (AST), NSF