



Monday, March 25, 2024

Time	Topics
2-5 p.m. MST	Trusted CI's Research Infrastructure Security Community (RISC) Workshop <i>The event is an invite-only workshop for members of the RISC.</i>
5-6 p.m. MST	In-Person Pre-Registration <i>Westward Look Wyndham</i>

Tuesday, March 26, 2024 – Day 1

Time	Topics			
7:00 a.m. MST	Continental Breakfast			
8:00 a.m. MST	Opening Remarks and an Overview of Updates to NSF's Research Infrastructure Guide (RIG) <i>Matthew Hawkins, Head, Research Infrastructure Office, NSF</i> <i>Linnea Avallone, Chief Officer for Research Facilities, NSF</i>			
8:40 a.m. MST	Introduction to NSF's National Optical-Infrared Astronomy Research Laboratory <i>Pat McCarthy, Director of NSF's National Optical-Infrared Astronomy Research Laboratory (NOIRLab)</i>			
9:05 a.m. MST	Introduction to University of Arizona, Mirror Lab <i>Buell Jannuzi, Director of Steward Observatory and Head of the Department of Astronomy, The University of Arizona</i>			
9:30 a.m. MST	Introduction to University of Arizona, Biosphere 2 <i>Dr. Joaquin Ruiz, Director, BIOSPHERE 2, The University of Arizona</i>			
9:55 a.m. MST	Refreshment Break			
10:15 a.m. MST	Celebrating 75 Years of Discovery and Building on NSF's Legacy <i>Cori Bassett, Creative Services Branch Chief, Acting Public and Media Affairs Branch Chief, Office of Legislative & Public Affairs (OLPA), NSF</i>			
11:15 a.m. MST	National Artificial Intelligence Research Resource (NAIRR) Pilot <i>Bill Miller, Senior Advisor, Office of Advanced Cyberinfrastructure (CISE/OAC), NSF</i>			
11:45 a.m. MST	Lunch			
	Award Management	Mid-scale RI	Cyberinfrastructure	Office of Legislative & Public Affairs (OLPA)
1:00 p.m. MST	Build America, Buy America (BABA) Implementation Update <i>Patrick Breen, Chief Acquisition Officer, Division of Acquisition and Cooperative Support (BFA/DACS), NSF</i> <i>Daniel Moline, Division of Acquisition and Cooperative Support (BFA/DACS), NSF</i>	Discussion on New RIG Section 2.9 on Mid-scale Research Infrastructure <i>Matthew Hawkins, Head, Research Infrastructure Office (BFA/RIO), NSF</i> <i>Roland Roberts, Deputy Chief Officer for Research Facilities, NSF</i>	Data, Integration, and Connectivity DOE Integrated Research Infrastructure (IRI) and the Advanced Scientific Computing Research (ASCR) <i>Dr. Debbie Bard, Data Department Head, National Energy Research Scientific Computing Center, Lawrence Berkeley National Lab</i>	Getting Mass Media to Work for You* <i>Miriam Kleiman</i> <i>Public Affairs Specialist</i> <i>Office of Legislative & Public Affairs</i> <i>This session will be offered in-person only</i>



2024 NSF RESEARCH INFRASTRUCTURE WORKSHOP

MARCH 26 - 29, 2024 • TUCSON, ARIZONA

Image Credit: Vera C. Rubin Observatory, CTIO/NOIRLab/DOE/NSF/AURA T.A. R. Richard F. Caris Mirror Lab/Gabrielle Perez

PROJECT MANAGEMENT. FACILITIES AND OPERATIONS. AWARD MANAGEMENT. EHS. EDUCATION AND PUBLIC OUTREACH. CYBER (CI & CS).

Time	Topics			
	Award Management	Mid-scale RI	Cyberinfrastructure	Office of Legislative & Public Affairs (OLPA)
1:30 p.m. MST	<p>Clarification on What Constitutes a Mid-scale Research Infrastructure Award</p> <p><i>Tim Kashmer, Branch Chief, Division of Acquisition and Cooperative Support, Infrastructure Support Branch (DACs/ISB)</i></p> <p><i>Kapua Hatch, Grant and Agreements Specialist, Division of Acquisition and Cooperative Support, Infrastructure Support Branch (DACs/ISB)</i></p> <p><i>Lisa Smith, Grant and Agreements Specialist, Division of Acquisition and Cooperative Support, Infrastructure Support Branch (DACs/ISB)</i></p>	<p>Defining What Tailoring, Scaling and Progressive Elaboration Plans Mean to All Lifecycle Phases: New RIG Sub-section Under Section 4</p> <p><i>Carol Wilkinson, Senior Project Manager, Wilkinson PM Consulting</i></p> <p><i>Ryszard Kaczmarek, Research Infrastructure Advisor, Research Infrastructure Office (BFA/RIO), NSF</i></p>	<p>Data, Integration, and Connectivity (Continued)</p> <p><i>Overview of Canada Foundation for Innovation Research Infrastructure and some of the Shared Data Challenges.</i></p> <p><i>Mark Lagacé, Director of Programs, Canada Foundation for Innovation</i></p> <p><i>Claudia Fall, Associate Director for Research Facilities, Canada Foundation for Innovation</i></p>	<p>Getting Mass Media to Work for You*</p> <p><i>(Continued)</i></p> <p><i>This session will be offered in-person only</i></p>
2:00 p.m. MST	Coffee Break			
2:15 p.m. MST	<p>Project Science and Behavioral Project Management</p> <p><i>Dr. Josh Ramirez, Chief Executive Officer, Institute for Neuro & Behavioral Project Management</i></p>	<p>Mid-scale Research Infrastructure Projects Share Lessons Learned</p> <p><i>Moderator: Roland Roberts, Deputy Chief Officer for Research Facilities, NSF</i></p> <p><i>Elizabeth Hill, NSF OPAL Project Manager, University of Rochester</i></p> <p><i>William Graves, Director, Compact X-ray Free Electron Laser (CXFEL), Arizona State University</i></p> <p><i>Pete Beckman, Software-Defined Sensor Network (SAGE)</i></p>	<p>Archiving and Long-term Preservation of Scientific Data: Considerations, Approaches, Challenges, and Best Practices</p> <p><i>Don Brower, University of Notre Dame Center for Research</i></p> <p><i>Angela Murillo, Assistant Professor, Indiana University, CI Compass</i></p> <p><i>Adam Bolton, Director, Community Science and Data Center, NSF's NOIRLab</i></p> <p><i>Bruce Berriman, Senior Astronomer and Data Scientist, Caltech/IPAC</i></p> <p><i>Jeannette Jackson, Managing Director, Research Data Ecosystem, University of Michigan</i></p>	<p>Content and Community*</p> <p><i>Glorymar Rivera-Diaz, Social Media Manager, NSF</i></p> <p><i>This session will be offered in-person only</i></p>
3:15 p.m. MST	Refreshment Break			



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	Award Management	Mid-scale RI	Cyberinfrastructure	Office of Legislative & Public Affairs (OLPA)
3:35 p.m. MST	<p>Panel on ZEV Vehicle Transitions in FY2023 and Future Planning</p> <p><i>Matthew Hawkins, Head, Research Infrastructure Office (BFA/RIO), NSF</i></p>	<p>ZEUS: Considerations for the Successful Transition from a Mid-scale RI Construction Project to a Mid-scale RI in Operations and Its Impact</p> <p><i>Franko Bayer, Senior Project Manager, University of Michigan - Center for Ultrafast Optical Science</i></p>	<p>Digital Backbone: Navigating the RIG Revisions to Cyberinfrastructure & Cybersecurity</p> <p><i>Bill Miller, Senior Advisor, OAC, NSF</i></p> <p><i>Michael Corn, Cybersecurity Advisor for Research Infrastructure, OD, NSF</i></p> <p><i>Alison Rockwell, Research Infrastructure Advisor, RIO, NSF</i></p>	<p>Understanding and Implementing NSF Branding Policy*</p> <p><i>Amanda Meyers, NSF</i></p> <p><i>This session will be offered in-person only.</i></p>
4:05 p.m. MST	<p>Overview of Directorate for Technology, Innovation, and Partnerships Engines Program and Relation to Research Infrastructure</p> <p><i>Florence Rabanal, Program Director, TIP NSF</i></p>	<p>Change Control: Examples of Simple, Medium, and High Complications</p> <p><i>Rich Grubb, Project Management Specialist, Oregon Forecasting Inc.</i></p> <p><i>Blaise Stephanus, Program Manager, Dartmouth College</i></p>	<p>Digital Backbone: Navigating the RIG Revisions to Cyberinfrastructure & Cybersecurity</p> <p><i>(Continued)</i></p>	<p>Understanding and Implementing NSF Branding Policy* <i>(Continued)</i></p> <p><i>This session will be offered in-person only.</i></p> <p><i>*The OLPA Workshop sessions are offered in-person only.</i></p>
4:35 p.m. MST	In-Person Poster Session			
5:15 p.m. MST	Welcome Reception <i>Hors d'Oeuvres and Cash Bar</i>			
6: p.m. MST	End Day 1 of Workshop			



Wednesday, March 27, 2024 – Day 2

Time	Activities			
	<i>Kitt Peak Tour</i>	<i>Biosphere 2 Tour</i>	<i>Mirror Lab Tours</i>	<i>Virtual Activities</i>
6:45 a.m. MST	Continental Breakfast (ends 8:15 a.m. MST MST)			
7:45 a.m. MST	Group Tour Transportation and Boxed Lunch Provided	Group Tour Transportation and Boxed Lunch Provided	Three Group Tours (Consecutive) Transportation and Boxed Lunch Provided	Webinar #1: Alternate Methods for Monitoring Progress Against Plan on Mid-scale Research Infrastructure <i>Facundo Funes, Research Infrastructure Advisor, Research Infrastructure Office (BFA/RIO), NSF</i>
8:40 a.m. MST				Break
10:05 a.m. MST				Virtual Coffee Chat (Workshop App)
11:15 a.m. MST				Break Lunch provided for In-Person Attendees
11:45 a.m. MST				Webinar #2: A Review of 2023 Research Infrastructure Project Management Webinar Series <i>Reviewing a series of three, 90-minute webinars that focused on developing basic knowledge and skills on project management methods applied to planning and performance management of Mid-scale RI projects consistent with NSF's Research Infrastructure Guide (RIG).</i> <i>Facundo Funes, Research Infrastructure Advisor, Research Infrastructure Office (BFA/RIO), NSF</i>
12:20 p.m. MST	Group Tour Transportation and Onsite Lunch Provided			
2:00 p.m. MST	Break			
2:45 p.m. MST	Virtual Poster Session (2:45– 3:15 p.m. MST / 5:45 p.m. MST – 6:15 p.m. MST EDT)			
3:15 p.m. MST	Break			
3:30 P.M. MST	Student Poster Session Light Refreshments			
5:15 p.m. MST	End Day 2 of Workshop			



Thursday, March 28, 2024 – Day 3

Time	Topics			
7:00 a.m. MST	Continental Breakfast			
	EHS	Facilities and Operations	Cybersecurity	In-Person EPO Workshop
8:00 a.m. MST	<p>The Intersections of Safety & DEI (Diversity, Equity, and Inclusion) <i>Moderator: Bevin Luna, Battelle Arctic Research Operations</i> <i>Jennifer Bates, Broadening Participations Program Manager: RADIAL, NRAO</i> <i>Giovanni Corvetto, Safety, Health & Environment Manager, NSF's NOIRLab /Rubin Observatory</i> <i>Alysha Shugart, Rubin Observatory, NSF's NOIRLab</i></p>	<p>Preparing an Operations and Maintenance Budget: Approaches and Practices for Budget Contingency. <i>Chris McKay, Operations Manager, NEON</i></p>	<p>In the Trenches of an Effective Cybersecurity Program <i>Jeffrey Glatstein, Senior Manager of Cyberinfrastructure, Woods Hole Oceanographic Institution</i> <i>Sam Chan, IT Director and Information Security Officer, GMTO</i> <i>Efren Sandoval, Senior Systems Administrator and Cybersecurity Analyst, GMTO</i> <i>Mike Wilson, NAN Cybersecurity Lead, Network for Advanced NMR (NAN)</i></p>	<p>Work Session: NEW - Planning for EPO/Comms Personnel Exchange Program Across Facilities <i>Moderator: Tim Spuck, Staff Associate for Facilities, Directorate for Mathematical & Physical Sciences (MPS), NSF</i></p> <p><i>This session will be offered in-person only</i></p>
8:50 a.m. MST	Coffee Break			
9:05 a.m. MST	<p>Part I: How to Conduct a Safety Incident Investigation <i>Danny Sellers, Head Safety Officer, LIGO</i></p> <p>Part II: Lessons Learned from Safety Observations and Near Misses <i>Round Table Discussion</i></p>	<p>New Sub-section of RIG Section 3 that Relates to Annual Operations Planning <i>Charlotte Roehm, Program Director, Division of Biological Infrastructure (BIO/ DBI), NSF</i> <i>Chris Davis, Program Director, Division of Astronomical Sciences, Directorate of Mathematical and Physical Sciences (AST/MPS), NSF</i></p>	<p>Risk Management and Cybersecurity: How to Include Cybersecurity as Part of Risk Management Planning <i>Michael Corn, Cybersecurity Advisor for Research Infrastructure, OD, NSF</i></p>	<p>Work Session: NEW - Planning for EPO/Comms Personnel Exchange Program Across Facilities (Continued) <i>This session will be offered in-person only</i></p>
9:55 a.m. MST	Refreshment Break			



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Time	Topics			
	EHS	Facilities and Operations	Cybersecurity	In-Person EPO Workshop
10:15 a.m. MST	<p>Workplace Safety: Tips for Leadership for a Successful Safety Performance Giovanni Corvetto, Safety, Health & Environment Manager, NSF's NOIRLab /Rubin Observatory Reva Golden, EHS Specialist / Industrial Hygienist, UCAR</p>	<p>Facility Condition Assessment of Major Facilities – RIG Section 3.6.3 Richard Oram, Research Infrastructure Office, NSF Recapitalization Mechanisms for Major Facilities in the Operations Stage – RIG Section 3.6.7 Stella Osifo, Research Infrastructure Office, NSF</p>	<p>Information Security and Research Security Programs at NSF NCAR and NRAO Greg Madden, Chief Information Officer, UCAR Wade Craig, Information Security Officer and Cyber Security Specialist, National Radio Astronomy Observatory (NRAO)</p>	<p>EPO/Comms Sharathon Moderator: Tim Spuck, Staff Associate for Facilities, Directorate for Mathematical & Physical Sciences (MPS), NSF This session will be offered in-person only</p>
11:05 a.m. MST	Coffee Break			
	Project Management	Facilities and Operations	Cybersecurity	In-Person EPO Workshop
11:20 a.m. MST	<p>We Need A PEP Talk: RIG - Project Execution Plans: A Review of the New PEP Format & Content Steve Ellis, Program Director, Division of Biological Infrastructure (BIO/ DBI), NSF Mark Warner, Project Manager, National Solar Observatory, AURA</p>	<p>Overview of Recent Facility Condition Assessment Process of National High Magnetic Field Laboratory Uzair Irfan, Senior Project Engineer, Enterprise and Technology Assessments, The Aerospace Corp John Kynoch, Head of Facilities at NHMFL, FSU</p>	<p>Transformative Twelve: An Evidence-Based, Highly Prioritized Set of Powerful Cybersecurity Controls Craig Jackson, Deputy Director at the Center for Applied Cybersecurity Research, Trusted CI / Indiana University</p>	<p>EPO/Comms Sharathon (Continued) This session will be offered in-person only</p>
12:10 p.m. MST	Lunch			
	Project Management	Facilities and Operations	Education and Public Outreach (EPO)	
1:25 p.m. MST	<p>Implementing Earned Value Management (EVM) at the Right Level: Scaling and Tailoring Carol Wilkinson, Senior Project Manager, Wilkinson PM Consulting Ryszard Kaczmarek, Research Infrastructure Advisor, Research Infrastructure Office (BFA/RIO), NSF</p>	<p>Practical Steps for Recruitment & Retention Moderator: Lorna Campbell, Staff Relations Manager, LIGO Lab Panel Participants: Joseph Anthony Gonzales, Head of Recruitment, AURA NSF Funded Centers Patrick Dimoh, Talent Acquisition Team Lead, NCAR Debra Booth, Director, Business Administration, National High Magnetic Field Laboratory</p>	<p>Effective Early STEM Pathways Panel Discussion Elizabeth Oxford, Outreach & Public Engagement Coordinator, ZEUS, University of Michigan Valerie Hirschberg, Education and Outreach Programs Manager, Giant Magellan Telescope</p>	



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Time	Topics		
2:15 p.m. MST	Coffee Break		
	Project Management	Facilities and Operations	Education and Public Outreach (EPO)
2:30 p.m. MST	<p>Hope is Not a Strategy! Risk Management Revisions in the NextGen RIG <i>Mark Warner, Project Manager, National Solar Observatory, AURA</i> <i>Alison Rockwell, Research Infrastructure Advisor, RIO, NSF</i></p>	<p>Sustainability in Operations: Overview of NSF's NOIRLab Strategy to Reduce Carbon Emissions <i>Inger Jorgensen, Chief Sustainability Officer, NSF's NOIRLab</i></p>	<p>Evaluation of EPO Projects and Data-driven Outcomes <i>A panel discussion.</i> <i>Moderator: Justine Schaen, NSF's NOIRLab</i></p>
3:20 p.m. MST	Refreshment Break		
3:40 p.m. MST	<p>Panel Session on Reporting <i>The panel will share and discuss good practices on project reporting including Risk Management and Change Control and Reporting Use of Contingencies.</i> <i>Moderator: Ryszard Kaczmarek, Research Infrastructure Advisor, Research Infrastructure Office (BFA/RIO), NSF</i> <i>Ernest Fontes, Technical Director, Cornell Laboratory for Accelerator-based Sciences and Education CLASSE</i> <i>Paul Matthias, Sr. Program Manager, Woods Hole Oceanographic Institution, (WHOI)</i> <i>David Winkel, Project Manager, Compact X-ray Free Electron Laser (CXFEL), Arizona State University</i> <i>Dave Lunger, Director of Project Management, NHMFL</i></p>	<p>Best Practices from Planning and Conducting Critical Lift Operations <i>Reva Golden, EHS Specialist / Industrial Hygienist, UCAR</i> <i>Michael Kercher, Cheyenne Operations Section Manager, NSF's NCAR/UCAR Wyoming Supercomputing Center</i> The Importance of Communication and Collaboration Across a RI Community <i>Brian Hawkins, Program Director, NSF Arctic Research Support & Logistics Services (ARSLS) Program, Battelle</i></p>	<p>The EPO Journey of the Vera C. Rubin Observatory <i>Alan Strauss, Head, Education and Public Outreach, Vera C. Rubin Observatory, NSF's NOIRLab</i> <i>Stephanie Deppe, NSF's NOIRLab</i> <i>Ardis Herrold, Education Specialist, Rubin Observatory</i></p>
4:30 P.M. MST	Coffee Break		
4:45 p.m. MST	<p>Recap of Monitoring Progress Against Plan on Mid-scale Research Infrastructure <i>Matthew Hawkins, Head, Research Infrastructure Office, NSF</i></p>	<p>Coordinating Research Activities Using Navy SEAL Planning Methods <i>Daniel Zehner, Scheduling and Operations Coordinator, NHERI-NCO</i></p>	<p>Event-driven Communication and Crisis Communication <i>Moderator: Lars Lindberg Christensen, Head of Communications, Education & Engagement, NSF's NOIRLab</i> <i>Amanda Kocz, Communications Manager, AURA; NSF NOIRLab</i> <i>Edan Schultz, Media Specialist, MagLab</i></p>
5:15 p.m. MST	End Sessions		
7:30 - 9:30 p.m. MST	<p>Stargazing Activity provided by NSF's NOIRLab <i>Hot Cocoa and Light Dessert</i></p>		



Time	Topics
	End Day 3 of Workshop

Friday, March 29, 2024 – Day 4 (Last Day of Workshop)

Time	Topics
7:00 a.m. MST	Continental Breakfast
8:00 a.m. MST	NSF Research Security Training Modules: Research Security Training <i>Sarah Stalker Lehoux, Deputy Chief of Research Security Strategy and Policy, NSF</i>
8:30 a.m. MST	Overview of ESO ELT Construction Project <i>Roberto Tamai, ESO's ELT Programme Manager, European Southern Observatory (ESO)</i>
9:00 a.m. MST	Coffee Break
9:15 a.m. MST	Overview of the Research Infrastructure Portfolio of NOAA's Oceanic and Atmospheric Research Labs <i>Vanda Grubišić, Director, Global Monitoring Laboratory, NOAA Oceanic and Atmospheric Research</i>
10:15a.m. MST	Refreshment Break
10:35 a.m. MST	Lessons Learned from Recent Cybersecurity Incident <i>Chris Morrison, Head of IT Operations, NSF's NOIRLab</i> <i>Jerry Brower, Cybersecurity Team Lead, NSF's NOIRLab</i>
11:05 a.m. MST	Transitioning Science Data Systems to the Commercial Cloud <i>Manil Maskey, Senior Research Scientist, NASA HQ Science Mission Directorate AI Lead. Project Manager, NASA</i>
11:35 a.m. MST	Closing Remarks <i>Matthew Hawkins, Head, Research Infrastructure Office, NSF</i>
11:45 a.m. MST	-- End Workshop --