

# Envisioning the Future of Facility Science and Cyberinfrastructure

TEXAS ADVANCED COMPUTING CENTER | UT AUSTIN

## AGENDA

Friday, April 5, 2019

Time	Topics	Presentations
8:30 – 9:00am	<p><b>Welcome and Introduction</b>  <i>Manish Parashar, Office Director, NSF Office of Advanced Cyberinfrastructure, NSF</i>  <i>Bill Miller, Science Advisor, NSF Office of Advanced Cyberinfrastructure, NSF</i></p>	
9:00 – 11:15am	<b>Presentations</b>	
9:00 – 9:45am	<p><b>Understanding Synapses in the Brain</b>  <i>Kristen M. Harris, Professor &amp; Fellow, Center for Learning &amp; Memory &amp; Institute for Neuroscience, UT Austin</i>  <i>James Carson, Manager, Life Sciences Computing – Research Acceleration, UT Austin</i></p> <p>The science questions of the atmospheric and related science communities continue to be a demanding driver of cyberinfrastructure. A high level summary of these science drivers coupled with a number of use cases highlight a few of the future directions the Computational and Information Systems Laboratory at the National Center for Atmospheric Research (NCAR) are focused on. It is an exciting time with lots of data, cloud ecosystems and changes in hardware architecture that promise to be disruptive but point to many new capabilities.</p>	<p><a href="#">Cyberinfrastructure Understanding Synapses in the Brain, Harris</a>  <a href="#">Cyberinfrastructure Understanding Synapses in the Brain, Carson</a></p>
9:45 – 10:15am	<p><b>Cyberinfrastructure Science Use Cases</b>  <i>Aaron Andersen, Director, Enterprise Systems &amp; Services, Computing &amp; Information Systems Lab, UCAR</i></p>	<p><a href="#">Science Use Cases &amp; Cyberinfrastructure Capabilities Moving the Atmospheric Sciences</a></p>
10:15 – 10:45am	<i>Break</i>	
10:45 – 11:15am	<p><b>Cyberinfrastructure Use Case Datapresence</b>  <i>Chris Romsos, Datapresence Systems Engineer, Regional Class Research Vessel Program, Oregon State University</i></p>	<p><a href="#">The use case for Datapresence: Remote participation in at sea research</a></p>
11:15am – 12:00pm	<b>Lightning Talks (4 min. each)</b>	
	<p><b>Data Infrastructure for Open Science in Support of LIGO and IceCube</b>  <i>Frank Wuerthwein, Researcher, Department of Physics, UC San Diego</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Wuerthwein</a></p>
	<p><b>Next Generation Scheduling, Triggering, and Data Sharing for Multimessenger Astrophysics</b>  <i>Andy Howell, Staff Scientist, Adjunct Faculty, Las Cumbres Observatory, University of California, Santa Barbara</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Howell</a></p>
	<p><b>Optimizing Data Delivery for Large Scientific Cyberinfrastructures</b>  <i>Anthony Simonet, Post-doctoral Associate, Rutgers University</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Simonet</a></p>
	<p><b>Pegasus-Automating Data Processing and Analysis for Large Facilities</b>  <i>Mats Rynge, Computer Scientist, USC Information Sciences Institute</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Rynge</a></p>
	<p><b>Scalable Cyberinfrastructure for Artificial Intelligence and Likelihood-Free Inference (SCAIFIN)</b>  <i>Mark Neubauer, Professor of Physics, University of Illinois at Urbana-Champaign</i></p>	
	<p><b>The EarthCube Council of Data Facilities</b>  <i>Doug Ertz, Project Manager III, UNAVCO</i></p>	
	<p><b>Developing Cybersecurity Programs for Large Facilities – DKIST &amp; Trusted CI</b>  <i>James Marsteller, Chief Information Security Officer, Supercomputer Center, Indiana University</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Marsteller</a></p>

	<p><b>ResearchSOC: Cybersecurity for the world's greatest research</b>  <i>Susan Sons, Chief Security Analyst, Center for Applied Cybersecurity Research, Indiana University</i></p>	<p><a href="#">Cyberinfrastructure Research SOC</a></p>
	<p><b>Develop a model and a plan for a Cyberinfrastructure Center of Excellence</b>  <i>Anirban Mandal, Assistant Director, Network Research &amp; Infrastructure Group</i></p>	<p><a href="#">Cyberinfrastructure Lightning Talk, Mandal</a></p>
<p><b>12:00 – 1:00pm</b></p>	<p><i>Working Lunch – View posters</i></p>	
<p><b>1:00 – 2:30pm</b></p>	<p><b>Panel-led Discussion</b>  <i>Ewa Deelman, Research Professor &amp; Director, USC Information Sciences Institute &amp; IEEE Fellow</i>  <i>Tom Gulbransen, Project Manager, National Ecological Observatory Network</i>  <i>Dan Stanzione, Associate Vice President for Research, The University of Texas at Austin</i>  <i>Adam Bolton, Acting Deputy Director, National Optical Astronomy Observatory</i></p>	
<p><b>2:30 – 2:45pm</b></p>	<p><b>Conclusion: Final Remarks, Next Steps</b>  <i>Manish Parashar and Bill Miller, NSF</i></p>	