



**2019 NSF Campus Cyberinfrastructure and
Cybersecurity Innovation for Cyberinfrastructure PI Workshop
September 24-25, 2019
Downtown Renaissance Hotel, The Depot – Minneapolis, Minnesota**

Day 1 – Tuesday, September 24, 2019

Time	Topic	Location
7:00 - 8:00 am	General Breakfast	The Conservatory
7:15 - 8:00 am	Newcomers Cyberinfrastructure (CI) 101 Breakfast Jeopardy – Grab your breakfast in The Conservatory and come join us for a fun and informational round of CI Jeopardy	Zephyr
8:00 - 8:30 am	Welcome and Opening Remarks Wendy Huntoon, KINBER Kevin Thompson, National Science Foundation	Great Northern
8:30 - 9:15 am	Plenary: FABRIC - Adaptive Programmable Research Infrastructure for Computer Science and Science Applications Ilya Baldin, University of North Carolina – University of North Carolina - Chapel Hill, RENCi	
9:15 - 10:15 am	Invited CC* and CICI Presentations	
9:15 - 9:30	CC* Networking Infrastructure: Building a High-Performance, Flexible DMZ Backbone at the University of Nevada, Reno Scotty Strachan, University of Nevada, Reno	
9:30 - 9:45	CICI: RDP: Open Science Chain - A Novel Distributed Ledger-Based Framework for Protecting Integrity and Provenance of Research Data Subhashini (Subha) Sivagnanam, University of California, San Diego	



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9:45 - 10:00	CC* Network Integration: Service Analysis and Network Diagnosis (SAND) Brian Bockelman, Morgridge Institute for Research	Great Northern
10:00 - 10:15	CICI: DETER Research Education and Operations Mission Sustainment Jelena Mirkovic, University of Southern California	
10:15 - 10:30 am	<i>Morning Break</i>	<i>Prefunction</i>
10:30 - 11:15 am	Panel Discussion: Securing Scientific Cyberinfrastructure Von Welch, Indiana University (moderator) Yanfang (Fanny) Ye, West Virginia University Anirban Mandal, University of North Carolina at Chapel Hill Suresh Marru, Indiana University	Great Northern
11:15 am - Noon	Panel Discussion: Campus Cyberinfrastructure and Cybersecurity Investments Across the Northern Tier and Rural States Marc Wallman, North Dakota State University (moderator) Libby Hemphill, University of Michigan Donna Liss, Truman State University Marla Meehl, University Center for Atmospheric Research / Front Range GigaPoP	
12:00 - 1:15 pm	<i>General Lunch – refresh, refuel, networking</i>	<i>The Conservatory</i>



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1:15 - 2:00 pm	<p>Campus and Cloud Compute Lightning Talks Section 1</p> <ul style="list-style-type: none"> • Exploring Clouds for Acceleration of Science (E-CAS) - Howard Pfeffer • CC* Compute: A Cost-Effective, 2,048 Core InfiniBand Cluster at UTC for Campus Research and Education - Anthony Skjellum • CC* Compute: Accelerating Computational Research for Engineering and Science (ACRES) at Clarkson University, A Campus Cluster Proposal - Joshua Fiske • CC* Compute: CAML - Accelerating Machine Learning via Campus and Grid - Kevin Lannon • CC* Compute: High Performance Campus Computing for Institutional Research at the American Museum of Natural History - Juan Montes <p>Section 2</p> <ul style="list-style-type: none"> • CC* Compute: Building a state-of-the-art campus compute resource at Franklin & Marshall College - Carrie Rampp • CC* Compute: Improved Computing for Advanced Research and Education (ICARE) - Zachary Rossmiller • CC* Compute: Integrating Georgia Tech into the Open Science Grid for Multi-Messenger Astrophysics - Mehmet Belgin • CC* Compute: Shared Computing Infrastructure for Large-scale Science Problems - Richard Jones • CC* Compute: Triton Stratus - Ronald Hawkins • CC*: Campus Computing and the Computing Continuum: Campus Cluster Resource: Expanded High Performance Computing at Wayne State - David Cinabro 	Great Northern



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Time	Topic	Location
2:15 - 3:45 pm	Speed Learning and Small Table Discussions <ul style="list-style-type: none"> Maximizing Grant Funds: Sharing Experiences in Capital Purchases <i>Hiawatha 1</i> Doug Jennewein, University of South Dakota/Sheryl Reinhard, Duquesne University (leads) Starting a Conversation with the Scientific Community and Strategies to Increasing Adoption & Awareness <i>Hiawatha 1</i> Jason Zurawski, ESnet/Jen Schopf, Indiana University (leads) NSF Grant Administration - Reporting Requirements, Annual Reports, etc. <i>Hiawatha 1</i> Marla Meehl, UCAR/FRGP (lead) Challenges of a Lesser-Resourced Institution <i>Hiawatha 2</i> Channon Visscher, Dordt College/Jorge Crichigno, University of South Carolina (leads) Sustainability Strategies: What happens after 3 years? <i>Hiawatha 2</i> Deborah Dent, Jackson State University/Ken Miller, Pennsylvania State University (leads) Workforce Development - Finding and Hiring the Right CI Resources <i>Hiawatha 3</i> Thomas Hauser, University of Colorado/Jim Basney, NCSA at the University of Illinois (leads) Practical Cybersecurity for Research Environments: Research Data, Infrastructure & Engagement <i>Hiawatha 3</i> Tracey Futhey, Duke University/Von Welch, Indiana University (leads) 	Hiawatha 1, 2, & 3
3:45 - 4:00 pm	Afternoon Break	Prefunction
4:00 - 4:30 pm	Speed Learning Report-Outs	Great Northern



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Time	Topic	Location
4:30 - 4:45 pm	Data Mobility Exhibition Motivations and Next Steps Eli Dart, ESnet	Great Northern
4:45 - 5:00 pm	Project ImPACT (Infrastructure for Privacy-Assured CompuTations) Ilya Baldin, University of North Carolina - Chapel Hill, RENCi	
4:45 - 5:30 pm	Extended Lightning Talks	
5:00 - 5:10	Identifying the key areas of focus for the overall CICI program Sagar Samtani, University of South Florida	
5:10 - 5:20	Training available for Science DMZ tools and applications Jorge Crichigno, University of South Carolina	
5:20 - 5:30	Leading edge networks to the campus as enablers of discovery science Harvey Newman, California Institute of Technology	
5:30 pm	Day 1 Wrap-Up	
5:30 - 7:00 pm	Evening Reception and Networking - NSF / NRP / Quilt (Light Appetizers and Cash Bar)	The Conservatory



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Day 2 – Wednesday, September 25, 2019

Time	Topic	Location
6:45 - 8:00 am	Breakfast – NSF / NRP / Quilt	The Conservatory
7:00 - 8:00 am	Great Plains Network CC* CyberTeam Collaborations Breakfast (invitation-only) - breakfast will be served in hallway outside of meeting room	Alexander Mitchell
7:00 - 8:00 am	R&E Networking Collaboration on Wildfire and Environmental Monitoring Breakfast (Open) - breakfast will be served in hallway outside of meeting room	AJ Earling
8:15 - 8:30 am	Collocated Meeting of NSF/NRP/Quilt Welcome and Introductions Dana Brunson, Internet2 Jen Leasure, The Quilt	Great Northern
8:30 - 9:15 am	Plenary: University of Minnesota's Cyberinfrastructure: Facilitating the Glacial Polar Center's Research and Changing How We See Earth Bernie Gulacheck, University of Minnesota Charles Nguyen, University of Minnesota Jim Wilgenbusch, University of Minnesota	
9:15 - 9:35 am	Invited Presentation: Emerging Research Platforms: Securing Sensitive Data from Lab to Likes Camille Crittenden, CITRIS and the Banatao Institute Jeff Weekley, University of California, Merced	
9:35 - 10:00 am	Invited Presentation: Fake Science - Challenges in Spotting Misinformation, Measuring Our Susceptibility, and Inoculating Ourselves to its Effects Anita Nikolic, Illinois Institute of Technology	



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Time	Topic	Location
10:00 - 10:15 am	Morning Break	Prefunction
10:15 - 11:00 am	Panel Discussion: - Regional Networks Addressing Smaller Institution Network Infrastructure Challenges and Regional Research IT Resources Wendy Huntoon, KINBER (moderator) Brian Burkhart, OneNet Steve Burrell, Northern Arizona University Dhruva Chakravorty, Texas A&M University Jim Griffieon, University of Kentucky Doug Jennewein, University of South Dakota	Great Northern
11:00 - 11:45 am	Invited Presentations: Supporting Tribal Colleges and Universities	
11:00 - 11:20	Al Kuslikis, American Indian Higher Education Consortium (AIHEC)	
11:25 - 11:45	Jason Arviso, Navajo Technical University	
11:45 am - 1:00 pm	General Collocated Lunch - NSF / NRP / Quilt	The Conservatory
11:45 am - 1:00 pm	Cyberinfrastructure for TCUs Lunch (open) - pick-up your lunch in the general meal room and then join us for an informal conversation	Alexander Mitchell
11:45 am - 1:00 pm	NSF FABRIC Project PI and Collaborator Lunch (open) - pick-up your lunch in the general meal room and then join us for an informal conversation	Zephyr
1:00 - 1:45 pm	Designing End-to-End Network Cyberinfrastructure Through Integration and Innovation	Great Northern
1:00 - 1:20	Barr Von Oehsen, Rutgers University	
1:25 - 1:45	Will Brockelsby, Duke University	



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1:45 - 2:45 pm	Panel Discussion: How Regional Partnerships with National Performance Engineering and Outreach Initiatives are Enabling Science Jen Schopf, Indiana University / EPOC (moderator) Larry Smarr, University of California San Diego / Calit2 / TNRP James Deaton, Great Plains Network Jennifer Oxenford, KINBER Akbar Kara, LEARN	Great Northern
2:45 - 2:55 pm	Collocated Program Wrap-Up	
3:00 - 3:30 pm	<i>Afternoon Break - NSF PI Workshop Concludes</i>	<i>Prefunction</i>
3:30 - 5:30 pm	<i>Quilt Fall Member Meeting Continues - NSF PIs and NRP workshop participants who represent higher-education institutions are invited to attend</i>	Great Northern