

6th GLOBAL RESEARCH PLATFORM WORKSHOP

Co-Located with IEEE International Conference on eScience 2025
September 15-16, 2025, Chicago, Illinois, USA

Program – SEPTEMBER 10, 2025

	MONDAY, September 15, 2025
8:15-8:25am 10 min	Welcome and 6GRP Introduction – Maxine Brown, UIC
8:25-8:45am 20 min	Workshop Overview Global Research Platform (GRP): A Software Defined, Globally Distributed, Multi-Domain Computational Science Environment – Architectural Framework, Innovations, Future Directions – Joe Mambretti , StarLight/iCAIR/NU/MREN
8:45-9:30am 45 min including Q&A	Session 1: Large-Scale Global Science (Part 1) Moderator: Joe Mambretti, StarLight, iCAIR/NU/MREN KEYNOTE: Billions of Stars and Galaxies – Oh My! Astro-AI Needs SkAI – Adam Miller , Center for Interdisciplinary Exploration and Research in Astrophysics (CIERA), Northwestern University
9:30-10:15am 45min including Q&A	Introduction to Next KEYNOTE – Larry Smarr, UC San Diego KEYNOTE: National Research Platform – Frank Wuerthwein , San Diego Supercomputer Center, UC San Diego
10:15-10:40am 25 min	Break
10:40-12:40pm 120 min 4 talks @ 30 min each	Session 1: Large-Scale Global Science (Part 2) Moderator: Maxine Brown, UIC The Sage Grande Testbed – Nicola Joy Ferrier , Northwestern University LHC Networking, Run 4, and the High Luminosity LHC – Bruno Hoefft , Karlsruhe Institute of Technology Deep Underground Neutrino Experiment (DUNE) – Meghna Bhattacharya , Fermilab High Luminosity Advanced Photon Source – Weijian Zheng , Argonne National Laboratory/University of Chicago
12:40-1:30 50 min	Lunch
1:30-3:00pm 90 min 3 talks @ 30 min each	Session 2: Next-Generation Research Platforms Moderator: Jim Chen, StarLight/iCAIR/NU Advances in ESnet Services and Infrastructure, IRI, AutoGOLE/NSI/ MEICAN/SENSE/Open Exchanges – Justas Balcas , ESnet Overview of APAN APRP WG and Korea Research Platform Activities – Jeonghoon Moon , KREONET Center, KISTI GÉANT Project Services for Large-Scale, Data-Intensive Science – Ivana Golub , PSNC/GÉANT

3:00-3:30pm 30 min	Break
4:00-5:00pm 60 min 2 talks @ 30 min each	Session 3: International Testbeds for Data-Intensive Science and the Transition to Tbps-800G-400G WANs Moderator: Maxine Brown, UIC SciStream: Enabling Applications to Stream Data between Science Instruments and HPC – Joaquin Chung , Argonne National Laboratory/University of Chicago ATLAS Network Data Challenge: Plans for DC27 – Shawn McKee , University of Michigan
5:00-5:10pm 10 min	Closing Session for Day 1 – Joe Mambretti, StarLight/iCAIR/NU/MREN
	TUESDAY, September 16, 2025
8:30-8:35am 5 min	Introduction to Day 2 – Joe Mambretti, StarLight/iCAIR/NU/MREN
8:35-9:15am 40 min including Q&A	Session 4: Global Networking for Science Initiative Moderator: Joe Mambretti, StarLight/iCAIR/NU/MREN KEYNOTE: Global Network Advancement – Harvey Newman , California Institute of Technology
9:15-10:30pm 75 min 3 talks @ 25 min each	Session 5: Enhancements of Major R&E Networks and Open Exchange Points (Part 1) Moderator: Rod Wilson, External Research, Ciena R&D CANARIE National Optical Line System – Thomas Tam , CANARIE SURFnet – Karin Wessel , SURF Internet2 and NA REX – Chris Wilkinson , Internet2
10:30-10:50 am 20 min	Break
10:50-12:30 100 min 5 talks @ 20 min each	Session 5: Enhancements of Major R&E Networks and Open Exchange Points (Part 2) Moderator: Ivana Golub, PSNC/GÉANT National Data eXchange and KREONET – Buseung Cho , KISTI/KREONET Faster, Smarter, and Greener High-Capacity Networks: SCinet, OFCnet, and CENI – Rod Wilson , External Research, Ciena R&D StarLight Software Defined Exchange Testbeds for Data Intensive Science – Joe Mambretti , StarLight/iCAIR/NU/MREN CESNET Developments – Miloš Liška , CESNET TransPAC – Brenna Meade , Indiana University
12:30-12:35 5 min	Closing Session for Day 2 – Joe Mambretti, StarLight/iCAIR/NU/MREN
12:35-1:30pm 55 min	Lunch