

## 7th GLOBAL RESEARCH PLATFORM WORKSHOP

Co-Located with IEEE International Conference on eScience 2026, Naples, Italy

<https://grpworkshop2026.theglobalresearchplatform.net/>

September 28-29, 2026, Teatro Room

### Program – September 28, 2026

|                                                                            | MONDAY, September 28, 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| 9:00-9:10am<br><b>10 min</b>                                               | <b>Welcome and 7GRP Introduction – Maxine Brown, UIC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 9:10-9:30am<br><b>20 min</b><br>1 talk @<br>20 min<br>including Q&A        | <b>Workshop Overview</b><br>Global Research Platform (GRP): A Software Defined, Globally Distributed, Multi-Domain Computational Science Environment – Architectural Framework, Innovations, Future Directions – <b>Joe Mambretti</b> , StarLight/iCAIR/NU/MREN                                                                                                                                                                                                                                                                                                                         |
| 9:30-11:00am<br><b>90 min</b><br>2 talks @ 45<br>min each<br>including Q&A | <b>Session 1: Large-Scale Global Science, Part 1</b><br><b>Moderator: Joe Mambretti, StarLight, iCAIR/NU/MREN</b><br><b>KEYNOTE 1:</b> U.S. Department of Energy’s Genesis Mission: Strategic Investments in AI, HPC and Quantum Technologies – <b>Chin Guok</b> , ESnet<br><b>KEYNOTE 2:</b> American Science Cloud and the Transformational AI Models Consortium – <b>David Martin</b> , ESnet                                                                                                                                                                                        |
| 11:00-11:30am<br><b>30 min</b>                                             | <b>Break</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 11:30-1:00pm<br><b>90 min</b><br>3 talks @<br>30 min each<br>including Q&A | <b>Session 1: Large-Scale Global Science, Part 2</b><br><b>Moderator: Karin Wessel, SURFnet</b><br>Square Kilometer Array (SKA) Regional Centre Network and the Path to Science Verification – <b>Ian Collier</b> , UK Science & Technology Facilities Council (STFC)<br>KREONET Data-Intensive Science Initiatives – <b>Buseung Cho</b> , KISTI, KREONET<br>GÉANT Project Services for Large-Scale, Data-Intensive Science – <b>Ivana Golub</b> , PSNC/GÉANT                                                                                                                           |
| 1:00-2:00pm<br><b>60 min</b>                                               | <b>Lunch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 2:00-4:00pm<br><b>120 min</b><br>4 talks @<br>30 min each<br>including Q&A | <b>Session 2: Next-Generation Research Platforms</b><br><b>Moderator: David Martin, ESnet</b><br>SENSE: How End-to-End Resource Orchestration Is Changing Science Workflows – <b>Chin Guok</b> , ESnet<br>Enabling Data-Intensive Science at Scale: The National Research Platform – <b>Daniel Diaz</b> , UCSD San Diego Supercomputer Center<br>Activities of APAN APRP WG and KRP on the High-Bandwidth Distributed HPC, and A3 Country Collaboration – <b>Jeonghoon Moon</b> , KREONET Center, KISTI<br>Agentic AI Data Transfer Node (AIDTN) – <b>Jim Chen</b> , iCAIR,NU/StarLight |

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| 4:00-4:10pm<br><b>10 min</b>                                                | <b>Group Photo</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 4:10-4:30pm<br><b>20 min</b>                                                | <b>Break</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4:30-6:00pm<br><b>90 min</b><br>3 talks @<br>30 min each<br>including Q&A   | <b>Session 3: International Communications Testbeds for Data-Intensive Science: From Gbps/Tbps to Quantum, Part 1</b><br><b>Moderator: Jim Chen, iCAIR,NU/StarLight</b><br>DCI Over Spectrum – <b>Paolo Bolletta</b> , GARR<br>Scitags – <b>Marian Babik</b> , CERN<br>Testbeds for Data-Intensive Science – <b>Marc Lyonnais</b> , External Research, Ciena R&D                                                                                                                                                                                                                                                                                                         |
| 6:00-6:10pm<br><b>10 min</b>                                                | <b>Closing Session for Day 1 – Joe Mambretti, StarLight/iCAIR/NU/MREN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                                             | <b>TUESDAY, September 29, 2026</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 8:30-8:35am<br><b>5 min</b>                                                 | <b>Introduction to Day 2 – Joe Mambretti, StarLight/iCAIR/NU/MREN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 8:30-10:35am<br><b>120 min</b><br>4 talks @<br>30 min each<br>including Q&A | <b>Session 3: International Communications Testbeds for Data-Intensive Science: From Gbps/Tbps to Quantum, Part 2</b><br><b>Moderator: Joe Mambretti, StarLight/iCAIR/NU/MREN</b><br>LHC Networking, Run 4, and the High-Luminosity LHC – <b>Edoardo Martelli</b> , CERN<br>Progress Toward a Quantum Internet – <b>Prem Kumar</b> , Northwestern University<br>Simulating the Quantum Internet Before We Build It: Recent Advances in SeQUeNCe – <b>Rajkumar Kettimuthu</b> , Argonne National Laboratory<br>From SciStream to Globus Streams: Making Real-Time Data Streaming a Managed Service for Science – <b>Rajkumar Kettimuthu</b> , Argonne National Laboratory |
| 10:35-11:05am<br><b>30 min</b><br>1 talk @<br>30 min each<br>including Q&A  | <b>Session 4: Enhancements of Major R&amp;E Networks &amp; Open Exchange Points, Part 1</b><br><b>Moderator: Marc Lyonnais, External Research, Ciena R&amp;D</b><br>NetherLight GXP and Fiber Sensing at SURF: Developments in Research Infrastructure – <b>Karin Wessel</b> , SURFnet                                                                                                                                                                                                                                                                                                                                                                                   |
| 11:05-11:30am<br><b>25 min</b>                                              | <b>Break</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 11:30-1:00pm<br><b>90 min</b><br>3 talks @<br>30 min each<br>including Q&A  | <b>Session 4: Enhancements of Major R&amp;E Networks &amp; Open Exchange Points, Part 2</b><br><b>Moderator: Marc Lyonnais, External Research, Ciena R&amp;D</b><br>Internet2 and NA REX – <b>Brenna Meade</b> , Internet2<br>400 Gbps Upgrade – <b>Richard Klinger</b> , CANARIE<br>SingAREN and the Singapore Open Exchange – <b>Francis Lee</b> , SingAREN                                                                                                                                                                                                                                                                                                            |
| 1:00-2:00pm<br><b>60 min</b>                                                | <b>Lunch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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| 2:00-4:00pm<br><b>120 min</b><br>4 talks @<br>30 min each<br>including Q&A | <b>Session 4: Enhancements of Major R&amp;E Networks &amp; Open Exchange Points, Part 3</b><br><b>Moderator: Ivana Golub, PSNC/GÉANT</b><br>Indiana University International Networking – <b>Ed Moynihan</b> , Indiana University<br>National eScience Network, Testbeds (OpenRAN/5GBeyond), Shared National<br>HPC/AI CI – <b>Leandro Ciuffo</b> , RNP<br>Internet2’s Support for Data-Intensive Science, Including SCinet and the NRE<br>Program – <b>Brenna Meade</b> , Internet2<br>StarLight Software Defined Exchange Testbeds for Data Intensive Science – <b>Joe Mambretti</b> , StarLight/iCAIR/NU/MREN |
| 4:00-4:10pm<br><b>20 min</b>                                               | <b>Closing Session for Day 2 – Joe Mambretti, StarLight/iCAIR/NU/MREN</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 4:10-4:30pm<br><b>10 min</b>                                               | <b>Break and Departure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |