3rd Workshop on Next-Generation Analytics for the Future Power Grid

Washington State University Tri-Cities
Consolidated Information Center
2770 Crimson Way, Richland, WA

Pacific Northwest
NATIONAL LABORATORY
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AGENDA

Thursday, July 17th

TIME	TOPIC
8:00 – 8:30 am	Registration with light refreshments
8:30 – 9:00 am	Welcome and Introductions
9:00 – 9:30 am	Presentation by Gil Bindewald, Program Manager, Advanced Grid Modeling Research Program, DOE Office of Electricity Delivery & Energy Reliability
9:30 – 10:30 am	Software Session 1: First of two sessions where attendees will provide information about current software projects addressing future power grid problems. There is an emphasis on shared-source and open-source efforts supporting research demonstration projects. Mark Rice, PNNL, GridOPTICS™ Software System Shri Abhyankar, ANL, Mathematical Libraries Developed at Argonne National Lab (include PETSc, TAO, Minotaur, etc.) Jeff Daily, PNNL, FNCS Carol Woodward, LLNL, The SUNDIALS Suite of Nonlinear and Differential/Algebraic Equation Solvers
10:30 – 10:45 am	Break
10:45 – 11:30 am	Software Session 2 Bruce Palmer, PNNL, GridPACK™ Daniel Kirschen, UW, Stochastic Unit Commitment Variants Jereme Haack, PNNL, VOLTTRON™
11:30 am – 12:00 pm	Shared Source Associations: Russell Roberts, Grid Protection Alliance and Grid Open Source Software Alliance Jason Fuller, PNNL, Grid Analytics Association

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TIME	TOPIC
12:00 – 1:30 pm	Working lunch w/ Keynote Speaker Larry Bekkedahl, Senior Vice President, Transmission Services, Bonneville Power Administration
1:30 – 4:45 pm	Challenge Problems Proposals, followed by Vote-with-your-feet breakout sessions: Attendees will start with a short panel format to propose challenge problems which could be used to define research goals and validate research results on problems of significant impact to the country. This is followed by the breakout sessions where attendees select a problem and participate in small-group discussions to expand the problem and identify key issues in solving the problem.
3:00 – 3:15	Break
3:15 – 3:30	Breakouts continue
4:45 – 5:00 pm	Break
5:00 – 5:30 pm	Challenge Problem Report Outs: Brief Reports from Challenge Problem Breakouts
5:30 pm	Adjourn
6:30 pm	Optional group dinner at Red Lion Richland

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Friday, July 18th

TIME	TOPIC
8:15 – 8:45 am	Badging for optional tour attendees with light refreshments (note: tour attendees must have submitted badging forms prior to event)
8:45 – 9:30 am	Keynote Speaker Jesse Berst, Founding Editor and Chief Analyst for Smart Grid News; Chairman, Smart Cities Council
9:30 – 9:50 am	Larry Buttress, Vice President and Chief Information Officer, and Terry Oliver, Chief Technology Innovation Officer, BPA
9:50 – 10:00 am	Break
10:00 – 11:20 am	Data Panel Discussion: a panel and workshop discussion on challenges in collecting, synthesizing, curating, and managing data to facilitate research and demonstration of new technologies
11:20 – 11:30 am	Break
11:30 am – 1:00 pm	Discussion on how to transition activities from PNNL stewardship to community self-management, led by David Callahan, PNNL, w/working lunch
1:00 – 5:00 pm	Optional tours of PNNL facilities and demonstrations of current PNNL projects (note: requires badging to enter PNNL for those who participate)