

4th Workshop on Next-Generation Analytics for the Future Power Grid



Pacific Northwest National Laboratory
Environmental Molecular Sciences Laboratory
3335 Innovation Boulevard, Richland, WA

Organizing Committee:

- Henry Huang, PNNL (Chair)
- Mihai Anitescu, ANL
- John Grosh, LLNL
- Tom King, ORNL
- Ben Kroposki, NREL
- Jean-Paul Watson, SNL
- Jonathan Woodring, LANL

AGENDA

Wednesday, September 2nd

TIME	TOPIC	PRESENTER
8:00 – 8:30am	Registration with light refreshments	
8:20 – 8:30am	Welcome and Introductions	Henry Huang, PNNL Jeff Dagle, PNNL
8:30 – 9:00am	Opening Remarks – FPGI as a PNNL lab-level initiative	John P. LaFemina, PNNL
9:00 – 9:30am	Plenary Talk on DOE Grid Analytics Portfolio	Gil Bindewald, DOE
9:30am – 12:00pm	Grid Analytics Showcase Examples – Industry Success Stories <ul style="list-style-type: none">- VOLTTRON- Network Interchange Schedule Prediction- Parallel Dynamic Simulation	Chair: John Grosh, LLNL <ul style="list-style-type: none">- Linda Rankin, Quality Logic- Jianzhong Tong, PJM- Devin Van Zandt, GE
12:00 – 1:30pm	Break for Lunch	

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TIME	TOPIC	PRESENTER
1:30 – 3:00pm	Grid Analytics Showcase Examples – National Lab Research Activities <ul style="list-style-type: none">- GridPACK- FNCS- Shared Perspective- M2ACS- Modularized Visualization- Advanced Computational Energy Systems (ACES) Workbench	Chair: Jean-Paul Watson, SNL <ul style="list-style-type: none">- Bruce Palmer, PNNL- Shri Abhyankar, ANL- Liang Min, LLNL- Jason Fuller, PNNL- Shri Abhyankar, ANL- Mark Rice, PNNL- Mihai Anitescu, ANL- George Chin, PNNL- Wes Jones, NREL
3:00 – 3:15pm	Break	
3:15 – 6:00pm	Methods to solve the three use cases. Three parallel sessions: <ul style="list-style-type: none">- Integration of Distributed Energy Resources- Wide-Area Control- Emerging Dynamics	Moderators: <ul style="list-style-type: none">- Jean-Paul Watson, SNL- Jon Woodring, LANL- Henry Huang, PNNL
6:00 – 7:30pm	Optional Poster Session <i>With light refreshments/hors d'oeuvres</i>	

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Thursday, September 3rd

TIME	TOPIC	PRESENTER
8:15 – 8:45am	Light morning refreshments available	
8:45 – 10:25am	Learning from other domains – Big Data and Visualization <ul style="list-style-type: none">- Scientific Visualization of Big Data- Scientific Visualization of Big Data- Ensemble Visualization and Statistics- Cyber Big-Data Analytics	Chair: Jon Woodring, LANL <ul style="list-style-type: none">- John Patchett, LANL- Gunther Weber, LBNL- Pat Crossno, SNL- George Chin, PNNL
10:25 – 10:45am	Break	
10:45 – 11:45am	Debriefing of the use case sessions by moderators	Moderators: <ul style="list-style-type: none">- Jean-Paul Watson, SNL- Jon Woodring, LANL- Henry Huang, PNNL
11:45am – 1:15pm	Break for lunch	
1:15 – 3:15pm	Industry panel on open-source software <ul style="list-style-type: none">- Open Modeling Framework- Adoption of Open-Source Software in Mission-Critical Applications- Commercialization of Open-Source Software	Chair: Bryan Palmintier, NREL <ul style="list-style-type: none">- Craig Miller, NRECA- Kwok Cheung, Alstom Grid- Bill Hoffman, Kitware

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TIME	TOPIC	PRESENTER
	<ul style="list-style-type: none">- GPA's experience and success with open-source tools	<ul style="list-style-type: none">- Fred Elmendorf, GPA
3:15 – 3:30pm	Break	
3:30 – 4:30pm	Grid Modernization update and looking ahead	<ul style="list-style-type: none">- Carl Imhoff, PNNL
4:30 – 5:30pm	Community building – forming a consortium <ul style="list-style-type: none">- Workshop Organization- Grid Analytics Roadmapping	<ul style="list-style-type: none">- Henry Huang, PNNL