



Advanced Grid Modeling 2014 Peer Review

Hilton Alexandria Old Town • 1767 King Street • Alexandria, Virginia, 22314

AGENDA

June 17, 2014

7:30 am - 8:30 am	Registration and Continental Breakfast
8:30 am - 9:00 am	Welcome and Opening Remarks Gil Bindewald, U.S. Department of Energy, David Ortiz, U.S. Department of Energy
9:00 am - 9:45 am	High-Performance Hybrid Simulation/Measurement-Based Tools For Proactive Operator Decision-Support Alberto Del Rosso, EPRI
9:45 am - 10:15 am	Break
10:15 am - 11:00 am	Dynamic Paradigm for Grid Operations Henry Huang, PNNL
11:00 am - 11:45 am	Development of Dynamic Models & Tools for Interconnection-wide Simulations Yilu Liu, ORNL, Travis Smith, ORNL
11:45 am - 12:30 pm	High Fidelity, "Faster than Real-Time" Simulator for Predicting Power System Dynamic Behavior Alexander Flueck, Illinois Institute of Technology
12:30 pm - 1:30 pm	Lunch - Industry Keynote Alison Silverstein, NASPI
1:30 pm - 2:15 pm	GridPACK Bruce Palmer, PNNL, Henry Huang, PNNL
2:15 pm - 3:00 pm	Reduced Order Models of Distribution Dynamics with Application to FIDVR Scott Backhaus, LANL
3:00 pm - 3:45 pm	Management & Optimization of VARS for Future Transmission Infrastructure with High Penetration of Renewable Generation (MOVARTI) Fran Li, ORNL
3:45 pm - 4:15 pm	Break
4:15 pm - 5:00 pm	A Lyapunov Function Based Remedial Action Screening Tool Using Real-Time Data Joydeep Mitra, Michigan State University
5:00 pm - 5:45 pm	Next Generation Data Grid Architecture Arjun Shanka, UTK, Russell Robertson, UTK
6:00 pm - 9:00 pm	Poster Session and Reception

AGENDA (CONTINUED)

June 18, 2014	
7:30 am - 8:30 am	Continental Breakfast
8:30 am - 8:45 am	Summary Gil Bindewald, U.S. Department of Energy
8:45 am - 9:30 am	Stochastic Analysis for Power Grid Operation and Planning Yuri Makarov, PNNL
9:30 am - 10:15 am	Power Grid Optimization under Uncertainty: Formulations, Algorithms, and High-Performance Computing Victor Zavala, ANL, Jianhui Wang, ANL
10:15 am - 10:45 am	Break
10:45 am - 11:30 am	Chance-constrained OPF and Unit Commitment -- Incorporating High-Performance Computing into Power Grid Operations Daniel Bienstock, Columbia University
11:30 am - 12:15 am	Power System Parallel Dynamic Simulation Framework for Real-Time Wide-Area Protection and Control Aleks Dimitrovski, ORNL
12:15 am - 1:15 pm	Lunch
1:15 pm - 2:00 am	Fast Dynamic Simulation-Based Small Signal Stability Assessment and Control Naresh Acharya, GE Global Research
2:00 pm - 2:45 pm	Improve Real-Time Operation with Advanced Computing Yousu Chen, PNNL
2:45 pm - 3:15 pm	Break
3:15 pm - 4:00 pm	Advancing the Adoption of High Performance Computing for Time Domain Simulation Liang Min, LLNL, Carol Woodward, LLNL
4:00 pm - 4:45 pm	An Integrated Modeling Platform for Power Grid Computing, Data Management, and Visualization Mark Hereld, ANL, Michael Wilde, ANL
4:45 pm	Adjourn