SMART GRID WORKSHOP

Challenges in Evaluating Smart Grid Solutions: Metric, Testing, Certification, Modeling and Simulation, Testbeds

Memorial Student Center
Texas A&M University
April 21, 2015

Program

7:30  Registration, Room 2400

8:00  Opening Remarks: Workshop Goals and Objectives, and Smart Grid Center Role, Mladen Kezunovic, Director, Smart Grid Center, TEES

8:10  Welcome: Glen A. Laine, Vice President for Research, Texas A&M University


8:45  Invited Talk 2: “The Future Synergy of Large-Scale Testbeds and Training Simulators,” Robin Podmore, President and CEO, IncSys

Chair: Lance Spross, Oncor
Co-Chair: Miroslav Begovic, Texas A&M University
“Test and User Facilities at NREL,” James Cale, NREL
“PV and Microgrid Test Facilities at TAMUQ,” Haitham Abu-Rub, Texas A&M Qatar
“Cybersecurity Test and Evaluation Facilities at Texas A&M,” Karen Butler, Texas A&M University
“Open Platform for Developing and Testing Smart Grid IEDs,” Igor Alvarado, National Instruments

10:10  Break (Room 2400) and Posters (Room 2401)
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| 10:30 | **Focus Group Sessions:**  
Big Data, Weather Impacts, Asset & Outage Management  
EMS, DMS, Cybersecurity, Substation Automation  
Demand-Side Management, Ancillary Services, Markets |
|       | Rm 2400  
Chair: **Mike Mihuc**, OSIsoft  
Co-Chair: **Anita Rapp**, Texas A&M University  
|       | Rm 2500  
Chair: **Dmitry Ishchenko**, ABB  
Co-Chair: **Alex Sprintson**, Texas A&M University  
|       | Rm 2501  
Chair: **Julia Matevosyan**, ERCOT  
Co-Chair: **Steven Puller**, Texas A&M University  
| 11:30 | **Plenary Session:** Report-out by Focus Groups (Room 2400) |
| 12:00 | **Lunch (Room 2406, TBC) and Posters (Room 2401)**  
Welcome: **Miroslav Begovic**, President, IEEE Power& Energy Society and Department Head of ECEN at Texas A&M University  
Keynote Talk: “Stakeholder Beliefs about Smart Grid’s Influence on Energy Cybersecurity, Reliability and Supply,” **Tarla Rai Peterson**, Professor, The Boone and Crockett Chair, Texas A&M University |
| 13:30 | **Focus Group Sessions**  
Building Energy Management, Smart Meters, Sensors  
Synchrophasor Systems, PMUs & PDCs, GPS  
Microgrids, EVs, Distributed Generation, Energy Storage |
|       | Rm 2400  
Chair: **Sang Hoon Lee**, Lawrence Berkeley Natl. Lab  
Co-Chair: **Charlie Culp**, Texas A&M University  
|       | Rm 2500  
Chair: **Glauco Taranto**, COPPE, Brazil  
Co-Chair: **Le Xie**, Texas A&M University  
|       | Rm 2501  
Chair: **Nick Haschka**, NRG Energy  
Co-Chair: **Natarajan Gautam**, Texas A&M University  
| 14:30 | **Break (Room 2400) and Posters (Room 2401)** |
| 15:00 | **Plenary Session:** Report-out by Focus Groups (Room 2400) |
| 15:30 | **Panel 2:** Future Developments of Testbeds  
Chair: **Paul Boynton**, NIST  
Co-Chair: **Chanan Singh**, A&M University  
“Agile Architectures and Their Evaluations”, John Reynolds, Fractal Grid  
“Future Requirements for Evaluating and Field Testing of Synchrophasors”, **Bill Blevins**, ERCOT  
“Real-time Simulators, the Next Level”, **Jean Bélanger**, OPAL-RT Technologies |
| 16:30 | **Closing Remarks:** **Mladen Kezunovic**, Director, Smart Grid Center, TEES |
| 17:00 | **Post-Workshop Reception (Room 2400) and Posters (Room 2401)** |
| 18:30 | **Adjourn** |