

INDUSTRY PRE-CONFERENCE

Monday, Nov. 14, 2016

Crowne Plaza, 401 W. Summit Hill Drive, Knoxville, TN 37902

6:00–9:00	<b>Industry Reception</b> private dining room off Crowne Plaza restaurant (informal event for available industry/SAB guests)
-----------	--

DAY 1: INDUSTRY CONFERENCE

Tuesday, Nov. 15, 2016

Crowne Plaza, Knoxville, TN 37902

7:30–8:30	Registration and Buffet Breakfast (Summit Lobby and Salon B & C)	
8:30–8:45	<b>Opening &amp; Welcome</b> (Grand Summit Ballroom)	
8:45–9:15	<b>Zhiwei Wang, President</b> , GEIRI North America, <i>“Introduction to GEIRI NA and HVDC Technology Development in China”</i>	
9:15–9:45	<b>Jose Conto, Principal, Dynamic Studies System Planning</b> , ERCOT, <i>“System Planning Activities Focused on Dynamic Issues at ERCOT”</i>	
9:45–10:15	Break (Mezzanine)	
10:15–10:45	<b>David Schoenwald, Principal Member Technical Staff</b> , Sandia National Laboratories, <i>“WECC-BPA Project Using PMU Data to Damp Inter-area Oscillations”</i>	
10:45–11:15	<b>Clifton Black, Senior Research Engineer</b> , Southern Company, <i>“Overview of T&amp;D Research at Southern Company”</i>	
11:15–11:45	<b>Jeff Hildreth, Principal Engineer</b> , Bonneville Power Administration, <i>“BPA Operation Challenges Now and Projected Involving HVDC and Growing Renewables”</i>	
11:45–1:00	Lunch (Salon B & C)	
1:00–4:00	<b>Student Presentations</b>	
	<b>Power System Modeling and Estimation</b> (Summit I) Session Chair - <b>Hector Pulgar</b>	<b>Power Electronics</b> (Summit II) Session Chair - <b>Kennedy Aganah</b>
1:00–1:20	Battery Energy Storage Emulation in a Converter-based Power System Emulator <b>Jessica Boles, UTK</b>	On the Asymmetry of Sequence Impedances over Frequency <b>Ignacio Vieto, RPI</b>

## DAY 1: INDUSTRY CONFERENCE (CONTINUED)

1:20–1:40	Semi-nonlinear Model Reduction and Its Application for Power Systems <b>Denis Osipov, UTK</b>	Harmonic Stability Analysis and Controller Parameter Design of Three-phase Inverter-based Multi-bus AC Systems Based on Sequence Impedances <b>Wenchao Cao, UTK</b>
1:40–2:00	Dynamic State Estimation of a Synchronous Generator with Unknown Parameters <b>Alireza Rouhani, NEU</b>	High Efficiency GaN-based Power Supply for Multi-load Wireless Power Transfer <b>Ling Jiang, UTK</b>
2:00–2:20	Improving Network Parameter Error Detection via Multiple Measurement Scans <b>Yuzhang Lin, NEU</b>	Cascaded Multilevel Inverter Topology for Distributed DC Sources <b>Benozir Ahmed, TU</b>
2:20–2:40	Break (Mezzanine)	
2:40–4:00	<b>Power System Control</b> (Summit I) Session Chair – <b>Greg Murphy</b>	<b>Power System Monitoring and Data Analysis</b> (Summit II) Session Chair - <b>Meng Wang</b>
2:40–3:00	Distributed Voltage and Reactive Power Control of a Power Grid Using Shapley Value: A Cooperative Game Theory Approach <b>Arif Arifin, TU</b>	Modeling PMU Estimation Error <b>Jiecheng Zhao, UTK</b>
3:00–3:20	A Novel Decentralized Dynamic Demand Control Strategy for Power System Frequency Regulation <b>Qingxin Shi, UTK</b>	Methodology to Assess Criticality of Large Power Transformers in the Bulk Electric System <b>Micah J. Till, UTK</b>
3:20–3:40	An Optimal Thevenin Equivalent Estimation Method and Its Application to the Voltage Stability Analysis of a Wind Hub <b>Stephen Burchett, RPI</b>	Validation of Real-time System Model in Western Interconnection <b>Yidan Lu, UTK</b>
3:40–4:00	Flywheel Energy Storage Model, Control, and Location for Improving Stability: The Chilean Case <b>Horacio Silva-Saravia, UTK</b>	Real-time Recovery of PMU Data with Hankel Matrix <b>Yingshuai Hao, RPI</b>
4:00–5:00	<b>Student–Industry Event</b> (Salon A)	
6:00–9:00	<b>Industry and Faculty Dinner Meeting</b> (Salon B)	

## DAY 2: NSF/DOE ANNUAL SITE VISIT

*Wednesday, Nov. 16, 2016*

Crowne Plaza, Knoxville, TN

7:00–8:00	Registration and Buffet Breakfast (Summit Lobby and Salon B& C)		
8:00–8:15	<b>Welcome Remarks</b> (Grand Summit Ballroom) <i>Jimmy Cheek, UTK Chancellor</i>		
8:15–8:45	<b>CURRENT Overview</b> <i>Kevin Tomsovic, CURENT Center Director, UTK</i>		
8:45–11:00	<b>Research Thrust Overviews</b>		
8:45–9:30	<b>Monitoring and Modeling Thrust Overview</b> <i>Yilu Liu, Deputy Director and Monitoring Thrust Leader &amp; Ali Abur, NEU Campus Director and Modeling Thrust Leader</i>		
9:30–9:45	Break (Mezzanine)		
9:45–10:30	<b>Control and Actuation Thrust Overview</b> <i>Joe Chow, RPI Campus Director and Control Thrust Leader &amp; Fred Wang, Technical Director and Actuation Thrust Leader</i>		
10:30–11:00	<b>CURRENT Engineered Systems Overview</b> <i>Leon Tolbert, Engineered Systems Thrust Leader</i>		
11:00–11:45	<b>Site Visit Team Executive Session</b> (Executive Boardroom 1)	<b>Industry &amp; SAB Feedback Session</b> (Grand Summit Ballroom)	<b>Private Meeting for Deans</b> (Executive Boardroom 2)
11:45–12:45	Lunch (Salon B & C)		
12:45–1:15	<b>Innovation and Industry Collaboration Program Overview</b> <i>Brad Trento, Industry Liaison Officer</i> (Grand Summit Ballroom)		
1:15–1:30	<b>Student bus transport to Min H. Kao, UTK</b> (meet in lobby, bus will be in front of hotel and leave at 1:30)		
1:15–2:15	<b>SVT Private Session with Industry</b> (Grand Summit Ballroom)		
2:15–2:30	<b>Industry bus transport to Min H. Kao, UTK</b> (meet in lobby, bus will be in front of hotel and leave at 2:30)		
2:30–3:45	<b>Lab Tour and Poster Session</b> (1 <sup>st</sup> and 4 <sup>th</sup> floor of Min H. Kao)		
3:45–4:00	<b>Industry bus transport to Crowne Plaza</b> (bus will be outside the first floor entrance of Min H. Kao and leave at 4:00)		
3:45–4:00	Break (1 <sup>st</sup> floor and 4 <sup>th</sup> floor hallways)		
4:00–4:45	<b>Education and Outreach Program Overview</b> <i>Chien-fei Chen, Director of Education, Outreach and Diversity</i> (Min H. Kao, Rm 622)		