



Industry Conference &  
NSF/DOE Annual Site Visit  
Oct. 6&7, 2015

INDUSTRY PRE-CONFERENCE  
*Monday, Oct. 5, 2015*

---

6:00-9:00 **Industry Reception - Holiday Inn, private dining room** off Windows on the Park Restaurant (informal event for available industry/SAB guests)

DAY 1: INDUSTRY CONFERENCE  
*Tuesday, Oct. 6, 2015*  
Holiday Inn World's Fair Park  
525 Henley Str., Knoxville, TN 37902

---

7:00-8:00 Registration and Buffet Breakfast  
(Pre-function Lobby and Tennessee Ballroom)

---

8:00-8:15 **Opening & Welcome** (Medallion Room)

---

8:15-8:45 **Michael McCarty**, Principal Power Systems Engineer, Solar City  
*Inverter Transient Overvoltage*

---

8:45-9:15 **David Wade**, Chief Operating Officer, EPB  
*Electric Power Distribution and the Internet of Things*

---

9:15-9:45 **Hongming Zhang**, EMS Network Applications Manager, Peak Reliability  
*Peak's Synchronphasor Projects Overview, Implementation Progress and Roadmap*

---

9:45-10:15 **Manu Parashar**, WAMS Activity Manager for the Wilde Area Monitoring Systems (WAMS) and Grid Stability, Alstom Grid  
*Overview of WAMS and WAMPAC projects and solutions*

---

10:15-10:30 Break (Pre-function Lobby)

---

10:30-11:00 **Jessica Bian**, Technical Staff, FERC  
*Finding a Balance – Bulk Power System Performance and Regulation*

---

11:00-11:30 **David Roop**, Director of Electric Transmission, Dominion Virginia Power  
*Resiliency, Renewables, and the fusion of Talent and Data to Engineer Tomorrow*

---

11:30-12:00 **Thomas Coleman**, Director Reliability Assessments, NERC  
*Long-Term Challenges & Emerging Issue Considerations for Maintaining Electric Reliability in North America*

---

12:00-1:00 Lunch (Tennessee Ballroom)

1:00-2:20	<b>Power System Modeling and Estimation</b> (Medallion Room) Session Chair -Hanoch Lev-Ari	<b>Power Electronics</b> (Carriage Room) Session Chair -Leila Parsa
1:00-1:20	Synchrophasor-based Generator Dynamic Model Validation, <b>Jidong Chai</b>	Medium Frequency Soft Switching DC/DC Converter for HVDC Transmission System, <b>Tao Li</b>
1:20-1:40	Two-Stage Dynamic State Estimator, <b>Alireza Rouhani</b>	Characterization of an Enhancement-Mode 650-V GaN HFET, <b>Edward Jones</b>
1:40-2:00	Real-Time Wide-area Loading Margin Sensitivity (WALMS) in Power Systems, <b>Haoyu Yuan</b>	High Step Down Ratio Power Converters for Data Center Power Supplies, <b>Yufan Cui</b>
2:00-2:20	Development of the Year 2030 U.S. Eastern Interconnection Dynamic Models and Sample Initial Study Results, <b>Derek Kou</b>	Short Circuit Fault Emulation by Shunt Connected Voltage Source Converter, <b>Yiwei Ma</b>
2:20-2:40	Break (Pre-function Lobby)	
2:40-4:00	<b>Power System Control and Economics</b> (Medallion Room) Session Chair - Hector Pulgar	<b>Monitoring and Data Analysis</b> (Carriage Room) Session Chair - Jesmin Khan
2:40-3:00	A Decoupling Based Direct Method for Power System Transient Stability Analysis, <b>Bin Wang</b>	Missing Data Recovery for High-dimensional Signals with Nonlinear Low-dimensional Structures, <b>Pengzhi Gao</b>
3:00-3:20	Using Optimal Potential of Incentive and Price-based Demand Response to Reduce Costs and Price Volatility, <b>Ailin Asadinejad</b>	Multiple Event Detection and Recognition Through Sparse Decomposition, <b>Yang Song</b>
3:20-3:40	Evaluation of LMP Intervals Considering Wind Uncertainty <b>Xin Fang</b>	Vulnerability Assessment of Phasor Networks, <b>Xiangyu Niu</b>
3:40-4:00	Application of the Adomian Decomposition Method for Semi-Analytic Solutions of Power System Differential Algebraic Equations, <b>Nan Duan</b>	Patterns of GPS Timing Signal Loss on Synchrophasor Measurements, <b>Dao Zhou</b>
4:00-5:00	<b>Student – Industry Event</b> (Crystal Room)	
6:00-9:00	<b>Industry and Faculty Dinner Meeting</b> (Tennessee Ballroom)	

## DAY 2: NSF/DOE ANNUAL SITE VISIT

Wednesday, Oct. 7, 2015

Holiday Inn World's Fair Park Knoxville, TN

7:00-8:00	Registration and Buffet Breakfast (Pre-function Lobby and Tennessee Ballroom)		
8:00-8:15	<b>Welcome</b> (Medallion Room)		
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	Monitoring and Modeling Thrust Overview <i>Yilu Liu, Deputy Director and Thrust Leader &amp; Ali Abur, NEU Campus Director and Thrust Leader</i>		
9:30-9:45	Break (Pre-function Lobby)		
9:45-10:30	Control and Actuation Thrust Overview <i>Joe Chow, RPI Campus Director and Thrust Leader &amp; Fred Wang, Technical Director and Thrust Leader</i>		
10:30-11:00	Engineered Systems Thrust Overview <i>Leon Tolbert, Thrust Leader</i>		
11:00-11:45	Site Visit Team Private Session (Parlor 1)	<b>Industry &amp; SAB Feedback Session</b> (Medallion Room)	Private Meeting for Deans (Parlor 2a)
11:45-12:45	Lunch (Tennessee Ballroom)		
12:45-1:15	<b>Innovation and Industry Collaboration Program Overview</b> (Medallion Room) <i>Bred Trento, Industry Liason Officer</i>		
1:15-2:15	<b>SVT Private Session with Industry</b> (Medallion Room)		
2:15-2:30	Conference moves to Min H. Kao Building 1520 Middle Drive, Knoxville, TN 37996		
2:30-3:45	<b>Lab Tour and Poster Session</b> (1 <sup>st</sup> and 4 <sup>th</sup> floor Min H. Kao)		
3:45-4:45	<b>Education and Outreach Program Overview</b> (Min H. Kao, Rm 622) <i>Chien-fei Chen, Director of Education &amp; Diversity Daniel Costinett, Co-Director of Education &amp; Diversity</i>		
4:45-5:45	<b>SVT Private Session with Students</b> (Min H. Kao, Rm 622)		
5:45-6:45	<b>SVT Private Meeting</b> (Min H. Kao, Rm 435)		
6:45-7:00	<b>SVT Question Presentation to ERC Team</b> (Min H. Kao, Rm 435)		