



**03/24/2014**

5:00 pm - 7:00 pm

**Welcome Reception/Registration Open**

Hall of Doges

**03/25/2014**

7:00 am - 5:00 pm

**Registration Open**

Mezzanine

7:40 am - 8:10 am

**Welcome/Introduction**

Grand Pennington AB

8:10 am - 9:10 am

**Featured Speaker**

Rich Bauer, North American Electric Reliability Corporation

9:10 am - 9:45 am

***Can We Standardize the Substation HMI?***

Alexander Apostolov, OMICRON Electronics

9:45 am - 10:00 am

**Refreshment Break**

Hall of Doges

10:00 am - 10:35 am

***Design and Validation Practices for Ethernet Networks to Support Automation and Control Applications***

David Dolezilek and Jason Dearien, Schweitzer Engineering Laboratories, Inc.

10:35 am - 11:10 am

11:10 am - 11:45 am

11:45 am - 1:00 pm

1:00 pm - 1:35 pm

1:35 pm - 2:10 pm

2:10 pm - 2:45 pm

2:45 pm - 3:00 pm

3:00 pm - 3:35 pm

3:35 pm - 4:10 pm

4:10 pm - 4:45 pm

4:30 pm - 6:00 pm

## 03/26/2014

7:00 am - 5:00 pm

8:00 am - 8:35 am

8:35 am - 9:10 am

9:10 am - 9:45 am

9:45 am - 10:00 am

### **Engineering - Developing the Next Generation**

Jessica Brunner, AltaLink

### **Reliability of the Communication Systems Used in Protection Schemes**

Harvey Lehpamer, POWER Engineers, Inc.

### **Luncheon**

Marie Antoinette

Sponsored by - [Schweitzer Engineering Laboratories, Inc.](#)

### **Distribution Automation and Video Surveillance Systems Improve Electric Cooperative Service and Security**

Phillip Constantinou, Schweitzer Engineering Laboratories, Inc.

### **Case Study of Multiple Vendor Reactive Power Control for Type 3 Wind Turbines**

Jared Eby, POWER Engineers, Inc.

### **Distribution Automation Case Study: Rapid Fault Detection, Isolation and Power Restoration for a Reliable Underground Distribution System**

Payal Gupta, Schweitzer Engineering Laboratories, Inc., Richard Colunga, CenterPoint Energy

### **Refreshment Break**

Hall of Doges

### **A Very New Standard - IEEE 1613.1 - 2013**

John Tengdin, JT Tengdin & Associates

### **How Will PTP Impact Protection Automation & Control Testing?**

Benton Vandiver III, OMICRON Electronics

### **Understanding and Applying Precision Time Protocol**

Shankar Achanta, Schweitzer Engineering Laboratories, Inc.

### **Reception**

Hall of Doges

Sponsored by - [Schneider Electric](#) and [NovaTech](#)

### **Registration Open**

Mezzanine

### **Featured Speaker**

Larry Bekkedahl, Bonneville Power Administration

### **The Latest and Greatest vs The Tried and True - RTU Upgrade Strategies**

Eric Oh, AltaLink

### **Implementation of Reliable High-Speed Islanding Detection, Zone Interlocking, and Source Selection Schemes Using Smart Algorithms**

Faridul Katha Basha, Schweitzer Engineering Laboratories, Inc.

### **Refreshment Break**

10:00 am - 10:35 am

10:35 am - 11:10 am

11:10 am - 11:45am

11:45 am - 1:00 pm

1:00 pm - 1:35 pm

1:35 pm - 2:10 pm

2:10 pm - 2:45 pm

2:45 pm - 3:00 pm

3:00 pm - 3:35 pm

3:35 pm - 4:10 pm

4:10 pm - 4:45 pm

4:30 pm - 6:00 pm

**03/27/2014**

7:00 am - 12:00 pm

8:00 am - 8:35 am

8:35 am - 9:10 am

9:10 am - 9:45 pm

9:45 am - 10:00 am

Hall of Doges

***Distributed RTU Application for Transformer Monitoring and Management***

Jon Schmidt, SaskPower Corporation

***Monitoring and Control of Power System Oscillations Using FACTS/HVDC and Wide-Area Phasor Measurements***

Galina Antonova, ABB, Inc.

***Design of a Centralized Substation Synchronizing System***

Dale Finney, Schweitzer Engineering Laboratories, Inc.

**Luncheon**

Marie Antoinette

***Achieving NERC CIP Compliance at the Station Using Relay and Automation Layer Capabilities***

Eric Stranz, Siemens

***Redesigning Automation Network Security***

Jacques Benoit, Cooper Power Systems

***How to Secure Remote Connectivity to Industrial Control Systems***

David Mattes, Asguard Networks

**Refreshment Break**

Hall of Doges

***Case Study: Using IEC 61850 to Simplify Lockout Circuits in a 345 kV Wind Generation Integration Substation***

Josh Bariola, Schweitzer Engineering Laboratories, Inc.

***Lessons Learned Using IEC 61850***

Douglas Young, Black & Veatch Corporation

***Cyber Intrusion Detection for IEC 61850 Based Multicast Messages in a Substation***

Junho Hong, Washington State University

**Reception**

Hall of Doges

**Registration Open**

Mezzanine

**Featured Speaker**

Heather Rosentrater, Avista Corp.

***Adaptive Control Strategies and Communications for Utility Integration of Photovoltaic Solar Sites***

Michael Rourke and Darrin Kite, Schweitzer Engineering Laboratories, Inc.

***Support for Systems Moving to Packet-Based Networks***

Motty Anavi, RAD Data Communications

**Refreshment Break**

10:00 am - 10:35 am

Hall of Doges

***Field Testing of 3G Cellular and Wireless Serial Radio Communications for Smart Grid Applications***

Bill Flerchinger, Schweitzer Engineering Laboratories, Inc.

10:35 am - 11:10 am

***How to Get IEC 61850 Across the Line and What to do Once You Get There - Setting the Stage for a Successful IEC 61850 Deployment***

Dustin Tessier, Tesco Automation

11:10 am - 11:45 am

***Object Oriented Programming Applied to Substation Automation***

Eric Mitchell, POWER Engineers, Inc.