



## Canada Protection Symposium Agenda

**Tuesday** | December 3, 2019

- 7:30 Check-in & Continental Breakfast
- 8:00 Welcome, Agenda Overview, and Speaker Introduction  
Wayne Bishop, OMICRON  
Eugenio Carneiro, OMICRON
- 8:10 IEC 61850 Tutorial by OMICRON  
This optional half-day session gives an introduction to the IEC 61850 standard for participants with no or little experience. It enables participants to get familiar with the standard and technologies.
- 12:00 Lunch & Networking
- 1:00 Distribution Automation Tutorial by G&W Electric  
This optional half-day session will go over ABB, GE, and SEL relays and their uses with underground switchgear. Topics that will be covered are automation, capabilities, communications, protection and what needs to be considered when designing controls using each relay. There will be case studies for each relay covered such as fault location, isolation, service restoration and loss of voltage when using ABB relays and SF6 switchgear. The tutorial and the evening reception will be graciously sponsored by G&W.

**Wednesday | December 4, 2019**

- 7:15 Check-in & Breakfast Buffet
- 8:00 Welcome, Agenda Overview, and Speaker Introduction  
Wayne Bishop, OMICRON  
Derek Brown, OMICRON
- 8:15 Opening Keynote Address  
Dr. Edmund O. Schweitzer, III, founder of Schweitzer Engineering Laboratories, SEL
- 9:00 Field Experience Testing Traveling Wave Line Protection  
Christopher Pritchard, OMICRON
- 9:30 Update from NERC  
Mark Lauby, NERC
- 10:00 Coffee Break  
Tech Talk & Visit Equipment Displays
- 10:30 Case Study: The Impact of the NERC PRC-025-2 Standard on Existing Generator Projects  
Vince Green, CIMA+
- 11:00 Attacking an IEC 61850 Substation  
Dr. Fred Steinhäuser, OMICRON
- 11:30 Asset Performance Management (APM) – Data, Analytics and Flexible Dashboards  
John McDonald, GE
- 12:00 Lunch
- 1:30 Advances in Generator Protection  
Dale Finney, SEL
- 2:00 Managing the New Grid  
Damir Novosel, Quanta Technology
- 2:30 Validation of Power Network Simulations with RelaySimTest and Commercial Simulation Software  
Stephan Brettschneider, Stantec
- 3:00 Coffee Break  
Tech Talk & Visit Equipment Displays
- 3:30 History of IEC 61850: Past, Present, Future  
Alex Apostolov, PAC World
- 4:00 Centralized Protection and Modern Communication within a Distribution Network  
Shahzad Ghanei, ABB
- 4:30 Panel Discussion: Creating a Culture of Trust  
Jackie Peer, OMICRON  
Lorraine Gray, Hydro One  
John Kumm, POWER Engineers
- 5:30 Reception  
Drinks and dinner hosted by OMICRON

**Thursday | December 5, 2019**

- 7:15 Breakfast Buffet
- 8:00 Welcome, Agenda Overview, and Speaker Introduction  
Wayne Bishop, OMICRON
- 8:15 Keynote Speaker  
Andrew Spencer, VP Transmission and Stations, Hydro One
- 9:00 Best of Both Worlds – Analog Protection Principles in a Digital Relay  
Dr. Bogdan Kasztenny, SEL
- 9:30 Transmission Protection Modeling and NERC Compliance Automation  
Muna Anazodo, Hydro One  
Ryan Parappilly, Hydro One  
Ishwarjot Anand, Quanta Technology
- 10:00 Coffee Break  
Tech Talk & Visit Equipment Displays
- 10:30 ComEd’s Experiences Designing and Implementing IEC 61850  
John Bettler, ComEd
- 11:00 Engineering a Cyber-Resilient Smart Grid  
Dr. Eman Hammad, PwC
- 11:30 FLISR, LOV, and Improved Reliability  
Katherine Cummings, G&W Electric
- 12:00 Lunch
- 1:30 Automated Distribution Coordination Setting Evaluation  
Mehrdad Chapariha, Quanta Technology
- 2:00 Substation Automation Systems – From Engineering to Automated Testing  
Eugenio Carvalheira, OMICRON
- 2:30 Coffee Break  
Tech Talk & Visit Equipment Displays
- 3:00 Distribution System Automation using IEC 61850 protocol for Automatic Restoration  
Himanshu Tiwari, S&C Electric  
Rupali Jain, S&C Electric
- 3:30 Hybrid Renewable Energy Standalone Systems  
Ambrish Chandra, ETSMTL
- 4:00 System-Based Testing  
Kevin Donaldson, OMICRON
- 4:30 Final Words and Conclusion of CPS  
Derek Brown, OMICRON  
Kevin Donaldson, OMICRON