



3rd Annual Northeast Power and Energy Conference  
co-hosted by University of Maine and OMICRON

The Westin Portland Harborview, Portland, Maine | May 14 – 16, 2018



**WELCOME**

**TO THE 3<sup>RD</sup> ANNUAL  
NORTHEAST  
POWER AND  
ENERGY  
CONFERENCE**

Dear Participant,

Welcome to the **3rd Annual Northeast Power and Energy Conference (NEPEC)**. We are so pleased to be offering this event in the southern part of the great State of Maine. We are happy to have some new friends from southern New England as well as New York attend this year's conference. We are also excited for you to enjoy the city of Portland and its many restaurants, shops, and entertainment options. Speaking of entertainment, we hope you will join us for the **off-site event on Monday evening** and the **Tuesday evening reception** at the hotel. These will provide a great opportunity to meet new people who are key stakeholders in the power and energy industry.

We have a great program – it's built on the foundation of contributions by all attendees, past and present. The topics vary and we truly believe that there is something for everyone attending this conference. You'll learn about how current issues are being solved as well as how an evolving power system is providing challenges and opportunities for all. The electric energy supply is one of the most complex systems humanity has created and we hope that the conference gives you some tools to help keep this complex system running smoothly.

As any engineer will tell you, continuous improvement is an essential part of getting better. As the conference proceeds, please make notes of any critiques you can provide; good or bad. We appreciate your time in helping to make this conference better.

Thank you for attending **NEPEC**.  
**Have a great time** and keep a lookout for next year's conference.

Sincerely,

David Stelmach, OMICRON & Paul Villeneuve, UMaine

# Agenda

## Monday | May 14, 2018

- 08:00 Registration and Breakfast
- 09:00 Greetings from UMaine  
Dr. Dana N Humphrey, UMaine
- 9:15 Welcome and Agenda Overview  
David Stelmach, OMICRON  
Paul Villeneuve, UMaine
- 9:45 Early Lessons Learned in Implementing an IEC 61850 System  
Mark Thompson, National Grid
- 10:30 Coffee Break and Tech Talk
- 11:00 Testing and Commissioning Traveling Wave Protection Technology  
Eugenio Carvalheira, OMICRON
- 11:45 Lunch
- 12:45 Central Maine Power's Union Street Substation – Large Technology in a Small Package  
Brian Moores, TRC Companies  
Abiye Fisseha, TRC Companies
- 1:30 Lessons Learned in Implementing IEC 61850; Communication Solutions  
Kevin Coyne, Casco Systems  
Brian Waldron, Schweitzer Engineering Laboratories
- 2:15 Coffee Break and Tech Talk
- 2:45 Lessons Learned from Renewable Energy Protection Applications  
Michael Lewark, Midcoast Engineering Company
- 3:30 The Essential Role of Peer Review in Protection and Controls Engineering  
Andrew Farrington, SGC Engineering  
William Wise, SGC Engineering
- 4:45 Ask the Experts Panel Discussion  
Moderated by Dave Stelmach, OMICRON and Paul Villeneuve, UMaine
- 5:15 Free Time
- 6:00 Special Offsite Event

## Tuesday | May 15, 2018

- 08:00 Registration and Breakfast
- 08:30 Welcome and Agenda Overview  
Wayne Bishop, OMICRON
- 08:45 Current Trends in the Electric Power Industry  
Chris Root, Vermont Electric Power Company VELCO
- 09:15 Distribution Automation Integration and Optimization FLISR  
Babak Enayati, National Grid
- 10:00 Coffee Break and Tech Talk
- 10:30 Combined Heat and Power Solutions for Energy Efficiency and Resiliency  
Dr. David Dvorak, UMaine  
Dr. Brett Ellis, UMaine
- 11:15 Distribution Volt-VAR Control Issues Resulting From High Penetration of DERs  
Dr. Murty Yalla, Beckwith Electric
- 12:00 Lunch
- 1:00 Commissioning IEC 61850 Protection System with Merging Units  
Bharadwaj Vasudevan, ABB  
Tim Walker, OMICRON
- 1:45 Planning for the Future: The Nation's first Cyber-Secure Utility Microgrid at Ameren  
Paul Pabst, S&C Electric
- 2:30 Coffee Break and Tech Talk
- 3:00 An IEC 61850 Microgrid for a Tri-Generational Critical Care Campus  
Ryan Bolduc, Wunderlich-Malec Engineering
- 3:45 National Grid Implementation Protection Functionality in Process Bus Architecture  
Paul Robinson, National Grid
- 4:30 Ask the Experts Panel Discussion  
Moderated by Tim Walker, OMICRON
- 5:00 Reception

# Agenda

Wednesday | May 16, 2018

- 08:00 Registration and Breakfast
- 08:30 Welcome and Agenda Overview  
Charles Sweetser, OMICRON
- 08:45 The Role of the IEEE Transformers Committee  
Bruce Forsyth, Weidmann Electrical Technology
- 09:30 Transformer Cold Startup and Oil Processing  
Ed teNyenhuis, ABB TRES Canada
- 10:15 Coffee break and Tech Talk
- 10:45 Transformer Insulation Materials and Fluids  
Tom Prevost, Weidmann Electrical Technology
- 11:30 Transformer Failure Analysis  
Dan Falla, National Grid
- 12:15 Lunch
- 1:15 High Voltage Testing Techniques  
Tom Melle, HIGHVOLT/MR
- 2:00 Power Transformer Protection Tutorial  
Ryan McMaster, Power Engineers
- 2:45 Coffee Break and Tech Talk
- 3:15 Transformer Diagnostic Field Testing  
Charles Sweetser, OMICRON
- 4:00 Ask the Experts Panel Discussion  
Moderated by Charles Sweetser, OMICRON
- 4:30 Adjourn





## Your event contacts

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