



pacworld
PROTECTION, AUTOMATION & CONTROL WORLD CONFERENCE 2025

PAC WORLD AMERICAS
11 - 14 August 2025
2025



PROTECTION, AUTOMATION & CONTROL WORLD
AMERICAS CONFERENCE 2025
Raleigh, North Carolina, USA



Monday 11 August, 2025

Raleigh Convention Center, Raleigh, North Carolina, USA

12:00 – 17:00 Conference Registration

13:30 – 17:00 **Tutorial: "Digital Substations in Practice: Architecture, Testing, and Live Demonstrations"**

Introduction by Dr. Alexander Apostolov, USA, IEEE Life Fellow,
Distinguished Member of CIGRE, Member of NAE

Presenters:

■ Eugenio Carvalheira, ■ Pascal Francis-Mezger – OMICRON electronics Corp. USA
■ Mike Ramlachan, ■ Craig Wester, ■ Christine Crites – GE Vernova

Raleigh Taverna Agora, 326 Hillsborough St, Raleigh, NC 27603

18:00 – 20:00 Welcome Reception



Tuesday 12 August, 2025

Raleigh Convention Center, Raleigh, North Carolina, USA

8:15 – 8:30 Conference opening - Dr. Alexander Apostolov, Conference Chairman

8:30 – 9:00 Keynote address: "Powering the Carolinas: Grid Resilience Through Energy Storage"
by Jay Oliver, VP of Energy Storage and Grid Development, Duke Energy

Morning Session TUM Part 1:

Chair: Rich Hunt, Quanta Technolog, USA

9:00 – 9:15 Lessons Learned from a Virtual Protection Relay (VPR) System Proof-of-Concept (PoC) Implementation -
N. Rexwinkel, SCE, USA; C. Garcia, E. Colmenares, ABB, USA

9:15 – 9:30 Virtual 86 Lockout – Considerations and Applications in Digital Substations - W. Hartmann, C. Wester,
GE Vernova, USA

9:30 – 9:45 Leveraging 5G URLLC for Protection and Control Operations in Transmission and Distribution Networks -
M. Subieta, Nokia, USA

9:45 – 10:00 Enabling Full Integration of Ethernet Networks into IEC 61850 Systems: The First Steps Towards a Unified
PACS Framework - G. Lisboa, Belden, Brazil

10:00 – 10:15 How to Troubleshoot a Network Incident in IEC61850 Digital Substation - S. Jose, ASE & Kalkitech, USA & India

10:15 – 10:30 Discussions

10:30 – 11:00 **Coffee break at the Exhibition areas at the Raleigh Convention Center**

Morning Session TUM Part 2:

Chair: Rich Hunt, Quanta Technolog, USA

11:00 – 11:15 Protection Schemes for Inverter-Dominated Transmission Systems: First Experiences from Hardware Testbed
of Hawai'i Island - U. Muenz, A. Stinskiy, E. Oliveira, A. Banerjee - Siemens US, USA; S. Sano, A. Li, M. Chee -
Hawaiian Electric Company, USA; T. Barik, D. Ramasubramanian, E. Farantatos, S. Das - EPRI, USA

11:15 – 11:30 The IEC 61850 Engineering Process from an Eagle's View - F. Steinhäuser, OMICRON, Austria

11:30 – 11:45 An Introduction to Harmonics on the Power Grid - T. Laughner, Lifescale Analytics, USA; B. Warmack,
Oak Ridge National Labs, USA

11:45 – 12:00 Updating LUMA Energy's Protection Philosophies, Settings Criteria, Short Circuit Modeling, Protection
Coordination Practices, and System-wide Settings Deployment - K. Judd, M. Malki, J. Li—Quanta Technology,
LLC, USA; P. Wang, LUMA Energy, USA

12:00 – 12:15 Benefits of Implementing Control Authority in Substation Automation Systems - R. Corna, W. Oliveira,
Schweitzer Engineering Laboratories, Inc., USA

12:15 – 12:30 Discussions
12:30 – 13:30 **Lunch break at the Exhibition areas at the Raleigh Convention Center**

Afternoon Session TUA Part 1:

Chair: Craig Wester, GE Vernova, USA

13:30 – 14:20 **Topic:** IBR Integration and the Impacts on P&C and the Grid
Utility Panel:
■ Jonathan Sykes, Quanta Technology (panel moderator)
■ Jason Eruneo, Duke Energy
■ Zheyuan Cheng, Quanta Technology
■ Bogdan Kasztenny, Schweitzer Engineering Laboratories (SEL)

14:25 – 15:15 **Topic:** Microgrids in Crisis: Lessons from Hurricane Helene and the Hot Springs Response
Utility Panel:
■ Patrick Louka, Duke Energy (panel moderator)
■ B. Bryan Hosseini, Duke Energy
■ Junior Hatcher, Duke Energy
■ Wahiduddin ("Dean") Qaemi, Duke Energy

15:15 – 15:45 **Coffee break at the Exhibition areas at the Raleigh Convention Center**

Afternoon Session TUA Part 2:

Chair: Craig Wester, GE Vernova, USA

15:45 – 16:00 Practical Use of AI to Configure Relays and Automate Protection Studies - S. McGuinness, EPRI Europe DAC, Ireland; T. Kumar Barik, Electric Power Research Institute, USA

16:00– 16:15 Essentials of Renewable Energy Protection and Monitoring - D. Ransom, GE Vernova, USA

16:15 – 16:30 Update on UCA - H. Falk - UCAIug, USA

16:30 – 16:45 Enhancing Critical Infrastructure Resilience with vPRTC and APTS - J. Parrilli, H. Alves, J. Olsen, Microchip Technology Inc, USA

16:45 – 17:00 Modular Substation Construction Enabled by Digital Substations - R. Hunt, Quanta Technology LLC, USA

17:00 – 17:15 The Benefits & Challenges of 87L over Ethernet - A. Freeman-Scott, SCI Networks, USA; D. Dietmeyer, San Diego Gas & Electric, USA

17:15 – 17:30 Discussions

17:30– 19:30 or later **PAC Demo Hour+ at the Exhibition areas at the Raleigh Convention Center**

Wednesday 13 August, 2025

Raleigh Convention Center, Raleigh, North Carolina, USA

6:00 – 7:30 **PAC World Sunrise Run through Downtown Raleigh (New!)**

Morning Session WEM Part 1:

Chair: Fred Steinhauser, OMICRON electronics, Austria

8:30 – 8:45 Tradeoffs of Layer 3 Communications on the Process Bus - K. Gray, C. Dyer, POWER Engineers, USA; S. Karimi, POWER Engineers, Canada

8:45 – 9:00 Using 61850 Data Streams for Condition Based Monitoring - G. Wilson, Southern Company, USA

9:00 – 9:15 Impact of Sampled Analog Values on Time Synchronization of Line Current Differential Relays - T. Bains, I. Voloh, E. Bencz, S. Mutnuri, S. Gargaritano, J. Theron, GE Vernova, USA

9:15 – 9:30 Virtualization Maintenance and Testing - H. Falk - Outside the Box Consulting Services, USA; P. Myrda - Electric Power Research Institute, USA

9:30 – 9:45 Improving Time Synchronization Stability in Process Bus Applications via Seamless Changeover - J. Brandao, E. de Oliveira, R. Peres, Siemens, USA

- 9:45 – 10:00 NEMA Basic Application Profiles for Digital Substations - E Keller, G&W Electric, USA; B Marchionini, National Electrical Manufacturers Association, USA; A Stinskiy, Siemens, USA
- 10:00 – 10:15 Discussions
- 10:15 – 10:45 **Coffee break at the Exhibition areas at the Raleigh Convention Center**

Morning Session WEM Part 2:

Chair: Fred Steinhauser, OMICRON electronics, Austria

- 10:45 – 11:35 **Topic:** Challenges and Opportunities in Adopting Virtual Protection

Utility Panel:

- David G. Hart, Quanta Technology (panel moderator)
- Brant Heap, Salt River Project
- John Archer, RedHat
- Jonathan Sykes, Quanta Technology
- Cristian Garcia, ABB

- 11:40 – 12:30 **Topic:** Drivers and Benefits in Adopting Digital Substations

Utility Panel:

- Jonathan Sykes, Quanta Technology (panel moderator)
- John Bettler, ComEd (retired)
- Rick Tuck, Dominion
- Rich Hunt, Quanta Technology

- 12:30 – 13:30 **Lunch break at the Exhibition areas at the Raleigh Convention Center**

Afternoon Session WEA Part 1:

Chair: Paul Mirda, EPRI, USA

- 13:30 – 13:45 Digital Twin: The Revolution In Electrical System Protection Maintenance - A. I. Ferreira Neto, G. M. Bardocha Rezende, PSI Energy, Brazil
- 13:45 – 14:00 Real-life Implementation, Testing and Validation of Routable-GOOSE over MPLS-TP: Case Tele-protection Santa Rosa-Carapongo 220 kV line in Perú - J. Márcio Jorge, OMICRON electronics, Brazil; Y. Machuca Huamani, ISA ENERGÍA, Perú; J. Velarde, Siemens, Perú; F. Gonzalez-Longatt, Loughborough University, United Kingdom
- 14:00 – 14:15 5G URLLC for Wide-Area Protection in an Active Distribution System - P. Raghuraman, NC State University & Siemens Industry, USA; I. Guvenc, M. E. Baran, NC State University, USA; D. Maas, University of Utah, USA
- 14:15 – 14:30 The Role of a Robust Communications Infrastructure for Time Synchronization supporting the Electric Utility Protection and Control Infrastructure - M. Subieta, Nokia, USA; R. Wright, Nokia, Canada
- 14:30 – 14:45 A Bus Cleared and a Hidden Breaker Insulation Failure Revealed - R. Roman, K. Damron, Avista Utilities, USA; E. Clawson, Schweitzer Engineering Laboratories, Inc., USA
- 14:45 – 15:00 A Real-World Application of Lossy Modal Analysis for Power Line Carrier Protection Channels - C. Palmer, PowerComm Solutions, USA; E. Louis Seiter, S. Slaski, National Grid, USA
- 15:00 – 15:15 Discussions
- 15:15 – 15:45 **Coffee break at the Exhibition areas at the Raleigh Convention Center**

Afternoon Session WEA Part 2:

Chair: Paul Mirda, EPRI, USA

- 15:45 – 16:00 Virtualization of Protection Systems in Distribution Substations: Design, Implementation, and Performance Testing - N. Rexwinkel, F. Khalilpour, J. Silva; Southern California Edison, USA; A. Stinskiy, S. Talwar, M. Stollfuss, E. De Oliveira, Siemens, USA
- 16:00 – 16:15 Experience and Challenges in the Practical Implementation of Four Digital Substations in Brazil - D. Lellys, GE Vernova, USA; P. Humeres, Eletrobras, Brazil; J. Lima, PUC Minas University, Brazil

16:15 – 16:30	Modernizing Teleprotection: Migrating from SONET/SDH and TDM to IP/MPLS for Re-liable Protection and Control in Electric Utilities - M. Subieta, Nokia, USA
16:30 – 16:45	Secondary Injection Testing Technology in Merging Units applications with Low Power Instrument Transformers - P. Junior, CONPROVE, Brazil; A. Furlani Rosa, SecuControl, Brazil; R. Bernardino, G. Salge, C. Martins, CONPROVE, Brazil; A. Rios, L. Varela, SecuControl, Brazil
16:45 – 17:00	Engineering and Testing Insights into Centralized PAC Systems - D. Mani, Megger, USA
17:00 – 17:15	Advanced Recloser-Fuse Protection Coordination Strategies for Wildfire Mitigation - A. Venkataramanan, S. Talukder, S. Chandra, D. Ishchenko, Eaton Corp, USA; T. Chow, Exelon - ComEd, USA
17:15 – 17:30	Discussions
18:00	Conference Gala Dinner at the Jiddi Space & Courtyard, Raleigh, NC, USA

Thursday 14 August, 2025

Raleigh Convention Center, Raleigh, North Carolina, USA

Morning Session THM Part 1:	Chair: Alex Apostolov, PAC World, USA
------------------------------------	--

8:30 – 8:45	Automated Testing of SCADA Systems at Electric Utilities - B. Smith, R. Barton, Southern California Edison, USA; D. Goughnour, Triangle Microworks Inc., USA
8:45 – 9:00	Leveraging Private LTE Networks for Direct Transfer Trip (DTT) Systems - B. Dob, RFL, USA
9:00 – 9:15	Comparative Analysis of Transmission Lines Falling Conductor Protection Methods - C. Adewole, C. Aguilar, GE Vernova, USA; A. Marquez, A. Torres, E. Wong, N. Abed, Southern California Edison, USA
9:15 – 9:30	Quantum-Safe Grid Communications with MACsec - H. Chan, Z. Majzoub, Nokia, Canada
9:30 – 9:45	Enhancing Availability in Process Bus Applications Through Redundant Merging Units and Sampled Value Streams - R. Peres, J. Brandao, E. de Oliveira, SIEMENS, USA
9:45 – 10:00	A New Approach for Communication Cyber Security: Managing Authorisation, Not Keys - Andrew West, Integral SCADA Pty Ltd, Australia
10:00 – 10:15	Discussions
10:15 – 10:45	Coffee break at the Exhibition areas at the Raleigh Convention Center

Morning Session THM Part 2:	Chair: Alex Apostolov, PAC World, USA
------------------------------------	--

10:45 – 12:30	Interactive Session - Ask the Experts:
12:30 – 13:30	Lunch break at the Exhibition areas at the Raleigh Convention Center

Afternoon Session THA Part 1:	Chair: Glenn Wilson, Southern Company, USA
--------------------------------------	---

13:30 – 13:45	Wide-Area Terrestrial Time-Distribution System for Resilient Process Bus Based Line Current Differential Protection - A. Shrestha, M. Elshafi, A. Hoorjandi, A. Shetty, Schweitzer Engineering Laboratories, Inc., USA
13:45 – 14:00	Simplifying the Configuration Process for IEC61850-based Systems Through Generative AI Technology - G. Fernandes, A. Oliveira Pires, H. León, H. de Lemos, GE Vernova, Brazil; R. Ramlachan, GE Vernova, USA
14:00 – 14:15	A Retrospective on Los Angeles Fires From IOT Network - J. Anderson, Whisker Labs, USA; T. Laughner, Lifescale Analytics, USA; B. Marshall, Whisker Labs, USA
14:15 – 14:30	Root Cause Analysis of Misoperation of Line Differential Protection Based on CT Saturation and Its Mitigation - M. Bin Gani, J. Holbach, Quanta Technology LLC, USA; N. M. Skoff, M. J. Till, Dominion Energy, USA

- 14:30 – 14:45 Graph-based Federated Learning for Fault Detection in Power Distribution Systems - D. Bandurin, N. Matevosyan, ComEd, USA
- 14:45 – 15:00 UCA IEC61850 Interop Time Synchronization Testing Takeaways and Conclusions - G. Wrosinghert, W. Abt, Meinberg USA, USA
- 15:00 – 15:15 Discussions
- 15:15 – 15:45 **Coffee break at the Exhibition areas at the Raleigh Convention Center**

Afternoon Session THA Part 2:

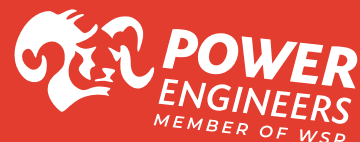
Chair: Glenn Wilson, Southern Company, USA

- 15:45 – 16:00 State of Cybersecurity in IEC 61850 - H. Falk, Outside the Box Consulting, USA; G. Godlevski, J. Moore, Triangle MicroWorks, USA
- 16:00 – 16:15 Developing an Electric Power Utility Business Case for Deployment of Digital Substations - C. Dyer, K. Gray, POWER Engineers, USA
- 16:15 – 16:30 Protection Applications with Low-Power instrument Transformers (LPIT) - Proof of Interoperability Under Operating Conditions - L. Schulz, P. Schuhmann, J. Sanchez, Siemens Germany, Germany; D. Sheth, Google, USA; A. Stinskiy, O. Hartmann, M. Rabinovich, Siemens US, USA
- 16:30 – 16:45 LUMA Energy Distribution Protection Methods Review for Large-Scale Reclosers Deployment - C. T. Ocasio Rodriguez, J. N. Morales Morales, LUMA Energy, Puerto Rico; H. Self, M. Ng, B. Zarovniaev, A. Chandel, M. Baviskar, J. Wagner, R. Karandeh, K. Whelan, Quanta Technology, LLC, USA
- 16:45 – 17:00 Time Out - A Simple Review of PTP for Relay & SCADA Engineers - Pascal Francis-Metzer, OMICRON electronics, USA; John Bettler, ComEd, USA
- 17:00 – 17:15 The Role of IEC 61850 in the Digital Transformation of Electric Power Grids - A. Apostolov, PAC World, USA
- 17:15 – 17:30 Discussions
- 17:30 **Closing of the Conference**

LIKE PYTHAGORAS, WE COVER ALL THE ANGLES

Transmission lines. Substations. Distribution. Automation. Microgrids. Cybersecurity. We have the resources you need today and the expertise to solve tomorrow's challenges. From analysis and design through construction and commissioning—POWER Engineers is your can-do, go-to power delivery solution.

LEARN MORE: WWW.POWERENG.COM/PD





Access only for **those you trust**

...both at home and in your substations.

Maximize cybersecurity in your substations by using the state-of-the-art CMC 500. The cyber-hardened protection relay test set is based on our cybersecurity by design approach. Thanks to this, cybersecurity measures are not only an integral part of development, but the entire product life cycle.

Benefit from unparalleled protection against cyber threats with the **CMC 500**.



omicron.energy/new-cmc



Meet us at our **booth no. 14** to discover our CMC 500.

OMICRON



Precision in Time.

Stability in Power.

Solutions for Conventional
and Digital Substations



The Synchronization Experts.



**QUANTA
TECHNOLOGY**

**Industry-recognized
thought leaders.
Trusted advisors with
global experience.**

Quanta Technology is an independent technology, consulting, and testing company providing business and technical expertise, along with advanced methodologies and processes, to utilities and others in the power and energy industries. Our mission is to provide unparalleled value to our clients in every engagement across the value chain by using advanced software and hardware, laboratories, and custom tools for a holistic approach to practical service and the most insightful thought leadership in the industry.



Contact us today!
To learn more, visit
quanta-technology.com

Sunrise Run (NEW!)

Sunrise Run through Downtown Raleigh

Wednesday, August 13, 2025, 6:00 – 7:30 am

Raleigh Marriott City Center – 500 Fayetteville St.

Hi PAC World runners,

Want to stretch your legs with others at the conference? Want to see some Raleigh sites in the peaceful morning hours before the conference gets going? This is a friendly run and has options for distances between 3-6 miles

Meet-up: 6:00 AM sharp, Wed (Aug 13) outside the Raleigh Marriott City Center — 500 Fayetteville St.

Distance & pace: Up to 6 miles at an easy "chat-while-you-run" tempo (≈10–11 min/mi), regrouping at lights; multiple points to turn back with simple directions to the hotel.

Finish: around 7:30 AM, leaving a solid hour to shower, grab coffee, and slide into the 8:30 AM session.





Become a Speaker



10th Annual Canada Protection Symposium (CPS)

Toronto, Canada | November 11-13, 2025

Topics Include

- > Protection, Automation, Control
- > IEC 61850, Digital Substations
- > New Developments in Testing Methods
- > Lessons Learned, Utility Case Studies
- > DER, Microgrids, and Energy Storage
- > Data Science and AI

Industry Companies Attending

- > Electric Utilities
- > Universities
- > Testing Companies
- > Consultants
- > Manufacturers

Call for Speakers

Our conference theme for this year is Redefining Protection in the Digital Era.

Abstracts can be submitted before **August 31st, 2025**.





61850 SYSTEM TOOLKIT

Facilitates the IEC 61850 Engineering Process

- Supports System Lifecycle including Design, Factory Acceptance Testing, Commissioning and Maintenance Phases of the Substation.



**TRIANGLE
MICROWORKS, INC.**

SOLUTIONS FOR COMMUNICATION PROTOCOL DEVELOPMENT

DNP3

Modbus

IEC 60870-5

IEC 60870-6 (TASE.2 / ICCP)

IEC 61400-25 (Wind)

IEC 61850 Edition 2.1

GOOSE

9-2 (Sampled Values)

7-410 (Hydro)

7-420 (DER)

www.TriangleMicroWorks.com

Welcome Reception - at Taverna Agora

Monday, August 11, 2025, 6:00 – 8:00pm

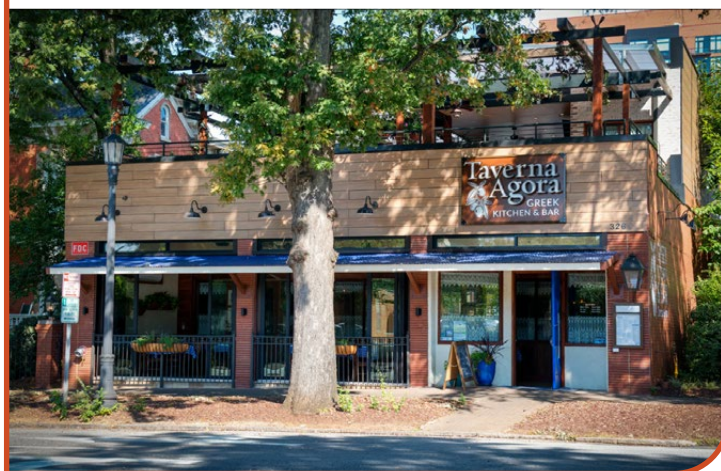
To start off the PAC World Conference, we enjoy getting together to catch up and get to know others who are joining the conference. We will provide light appetizers and refreshments to enjoy.

The reception is included in your registration fee. You will need to wear your badge to attend

Taverna Agora

326 Hillsborough St, Raleigh, NC 27603

<https://www.tavernaagora.com/>



Gala Dinner - at the Jiddi Space & Courtyard



Wednesday, August 13, 2025, 18:00 – 22:00

Join us for our Gala Dinner, where we always have a great time and a great meal!

Plus, we will have some fun entertainment afterward..

This dinner is also when all the photo contest awards are announced, including the popular vote.

Such a fun time to mingle with others from the PAC Community

Jiddi Space & Courtyard

137 S Wilmington St, Raleigh, NC 27601

the Gala Dinner is kindly sponsored by: OMICRON electronics



Utility Panels

At Raleigh Convention Center during the Conference Program

We know how much our participants enjoy a good conversation about what is going on within utilities and their experiences. This year, we are offering the following panels which cover a variety of topics and utility panelists. Can't wait to hear the conversations! See the conference schedule for the exact timing.

Each panel listed below has a description about the topic with the panelists and moderator. Expand the ones that interest you.

Challenges and Opportunities in Adopting Virtual Protection (Wednesday PM)

As utilities evaluate modernization strategies for medium-voltage substations, the concept of virtualized Protection, Automation, and Control systems is transitioning from theory to practical implementation. This session will examine the current readiness and limitations of virtual solutions based on IEC 61850, with a focus on real-world deployments and engineering considerations.

The use of edge compute infrastructure to host virtualized IED functions
Integration of IEC 61850 process bus elements, including GOOSE, Sampled Values, and system configuration via SCL
Determinism, cybersecurity, failover behavior, and timing in virtualized protection schemes
Operational integration with existing relay protection schemes and utility SCADA systems

Moderator: David Hart (Quanta Technology)

Drivers and Benefits in Adopting Digital Substations (Wednesday PM)

With the acceleration of capital projects (new substations and upgrading existing substations), it is increasingly important to look at how to deploy digital substations. Digital substations provide improvements in protection, control, design, compliance, and testing cycles. However, there are many actions that a utility must do to pave the path to digitization that will make the journey successful and sustainable. The panelists will provide real-world experiences in how utilities approach this process. They will touch on the challenges, justification, standards, proof of concept and testing, commissioning, training and more. The goal is to give utilities that are just beginning the digitization of substations process, some valuable information to make the journey more effective and efficient.

Moderator: Jonathan Sykes (Quanta Technology)

IBR Integration and the Impacts on the P&C and the Grid (Tuesday AM)

Inverter-based resources (IBRs), such as solar photovoltaic (PV) and wind power systems, have revolutionized the energy landscape by providing clean and renewable sources of electricity. However, these resources also introduce unique reliability challenges to power systems. Several key concerns are their dependency on weather conditions and lack of response to changing or adverse system conditions. Furthermore, inverter-based resources lack inertia, frequency and voltage control, and fault current which traditionally came from conventional generators and helped stabilize grid. Mitigating these challenges requires advanced control and monitoring systems that can detect changing system conditions, automatically recommend and take corrective actions, and stabilize the grid. The panel will be addressing this topic in detail both from a regulatory perspective, as well as from a utility perspective, and looking into practical, real-world solutions.

Moderator: Jonathan Sykes (Quanta Technology)

Microgrids in Crisis: Lessons from Hurricane Helene and the Hot Springs Response (Tuesday AM)

The Hot Springs Microgrid in North Carolina was designed to enhance reliability for a remote, single-fed community vulnerable to extended outages. During Hurricane Helene, the microgrid faced its first major test—catastrophic flooding severed access, damaged infrastructure, and disrupted communications. Despite these challenges, the microgrid successfully islanded and restored power to critical services days before grid power was re-established.

The panelists will provide a utility-centric perspective on how microgrids can serve as resilient assets during extreme weather events, and how their design and operation must evolve to meet future grid challenges.

Moderator: Patrick Louka (Duke Energy)

More information is available at: <https://conference-americas.pacw.org/utility-panels>

Conference coordinator:

Angela Sayegh (PAC World, USA)

For any issues and questions related to the organization of the PACW Americas Conference please e-mail to Angela Sayegh at: angela.sayegh@pacw.org

Local Organizing Committee:

John Bettler – ComEd; Beth Capeles – Triangle MicroWorks; Jim Coats – Triangle MicroWorks; David G. Hart – Quanta Technology; Rich Hunt – Quanta Technology; Bogdan Kasztenny – Schweitzer Engineering Laboratories, Inc; Patrick Louka – Duke Energy; Damir Novosel – Quanta Technology; Glenn Wilson – Southern Company – LOC Committee Chair

Advisory Committee:

To ensure that the PAC World magazine and conference are at a high level that meets the needs of the industry, we have invited world known experts in the field of electric power systems protection, automation and control as members of the magazine Advisory Board and the conference Advisory Committee.

They help us with their ideas, comments and suggestions to improve the content and quality of the magazine and the conference.

Christoph Brunner (Switzerland)
Prof. Peter Crossley (UK)
Prof. Xinzhou Dong (China)
Jorge Miguel Ordacgi Filho (Brazil)

Rodney Hughes (Australia)
Prof. Paul Lee (Korea)
Rannveig Loken (Norway)
Dr. Damir Novosel (USA)

Dr. Iony Patriota (Brazil)
Prof. Mohindar Sachdev (Canada)
Graeme Topham (South Africa)
Dr. Volkar Leitloff (France)

Rene Troost (The Netherlands)
Glenn Wilson (USA)
Birkir Heimisson (Iceland)

We want to say "Thank you!" to the people and companies that made PAC World Americas 2025 happen.

■ Advisory Committee:

■ Authors of papers and conference participants

■ Exhibitors

■ Sponsors:

Platinum Sponsor:

OMICRON



Silver Sponsor:



Bronze Sponsors:



Lanyard Sponsor:



TRIANGLE MICROWORKS, INC.



Thank you, All



Call for papers



**PROTECTION, AUTOMATION & CONTROL WORLD
AFRICA CONFERENCE 2026**

Protection, automation and control specialists from around the world are invited to submit abstracts for the PAC World Africa Conference 2026 to:

<https://conference-africa.pacw.org>

The submission page can also be reached by scanning the QR code



**See you
in Johannesburg in April 2026**

