



PAC World Conference 2026

Presentation Schedule

Raleigh, NC, USA, August 17-20, 2026

Last Updated: August 11, 2026

Tuesday Morning

1-TUM01	PW25	Maximizing Redundancy in Digital Substations - Melvin Moncey Joseph, Burns & McDonnell, USA; Craig Wester, GE Vernova, USA
1-TUM02	PW23	Centralized Protection in Distribution Substations: Testing Modular Relays with Conventional CT, VT Inputs and Process Bus Architecture - Juan Santillan, Eric Curiel, Southern California Edison, USA; Alexandr Stinskiy, Evandro Oliveira, Siemens, USA
1-TUM03	PW13	Practical Implementations of Breaker Failure Protection in Digital Substations - Gurleen Kaur, Richard Hunt, Danovo Energy Solutions, USA
1-TUM04	PW32	A Proposal for IEC 61850-Based Modeling and Supervision of Battery Energy Storage Systems in Power Substations - Rodrigo Kenzo Kuniyoshi Pacheco, Antonio Venancio Moura, TSEA Energy, Brazil
1-TUM05	PW17	Intent-Based Networking for IEC 61850 Ethernet Networks - Guilhermme Lisboa, Belden, Brazil; Lukas Bechtel, Belden, Germany; Davy Haegdorens, Belden, Belgium; Stephan Kehrer, Belden, Germany
1-TUM06	PW31	IEC 61850 Top-Down Engineering - Keith Gray, Chris Dyer, WSP, USA; Jonathan Doroh, Glenn Wilson, Southern Company, USA
1-TUM07	PW03	Initial Results of Testing Redundant Time Synchronization and Recovery Analysis of Protective Relays - Pascal Francis-Mezger, OMICRON electronics, USA; Geshan Wrosinghert, Meinberg USA, USA
1-TUM08	PW10	Distributed Bus Protection Using Process Bus for a Large Transmission Substation at Duke Energy - Arun Shrestha, Md Aamir Rahmani, Mauricio Silveira, Schweitzer Engineering Laboratories, Inc., USA; Stephen B. Ladd, Taylor I. Raffield, Duke Energy, USA
1-TUM09	PW35	Multiple approaches to reduce SCL Engineering effort of an IEC61850 Digital Substation - Sterin Jose, ASE / Kalkitech, USA

Tuesday Afternoon

Utility Panels - After Lunch

*** Topic:** Emerging Trends in Digital Substation

Jonathan Sykes (Danovo) – Moderator

Brant Heap (SRP)

Glenn Wilson (SoCo)

Shashank Bodhankar (PG&E)

*** Topic:** Data Center Integration – Protection and Control Issues and Solutions

Damir Novosel (DASH Power Partners) – Moderator

Scott Bricker (PG&E)

Zheyuan Cheng (Danovo Energy Solutions)

Alex Apostolov (PAC World)

2-TUA01	PW08	Wildfire Challenges and Mitigation on Distribution Feeders: Practices and Experience at Xcel Energy - Ryan Ebarb, Aaron Mead, Tyler McGrath, Xcel Energy USA; Howard Self, Bob Zarovniaev, Akram Saad, Geneve Lauby, Mayur Baviskar, Mathias Ng, Danovo Energy Solutions, USA
2-TUA02	PW18	Merits of Application-Focused Process Interface Units - Wayne Hartmann, GE VERNOVA, US; Chee-Pinp Teoh, John Wright, GE VERNOVA, UK; Philippe Brun, GE VERNOVA, France; Hung Hoang, Dang-Thoang VO, GE VERNOVA, Vietnam
2-TUA03	PW42	Open-Source Approaches to IEC 61850 Engineering: A Case Study - Axel Perales, Meinberg USA, USA
2-TUA04	PW30	Twenty Years of Centralized Remedial Action at Southern California Edison: Architecture, Operational Lessons, and the Emerging Grid Control Platform - Bill Zhang, Obinna Obah, Ronald Lim, Steve Guerrero, Southern California Edison, USA; Joel Greene, SISCO, Inc., USA
2-TUA05	PW20	A Survey of Fault Studies with a Large IoT Power Quality Sensor Network - James Anderson, Ting Labs, USA; Theo Laughner, Lifescale Analytics, USA; Bob Marshall, Joe McNulty, Ting Labs, USA
2-TUA06	PW15	Distribution Grid Fleet Management - Peter Noglik, Hitachi Energy, Germany; Galina S. Antonova, Hitachi Energy, Canada

Wednesday Morning

3-WEM01	PW41	How to ensure that a Digital Substation is deployed and running with right configuration? - Sterin Jose, ASE / Kalkitech, USA
3-WEM02	PW36	CT Saturation Impact on Busbar Differential Protection: Interactive Transient Closed-Loop Simulation for Protection Setting Optimization - Thalisson Moreira, John Brandão, Jorge Damasceno, L.C. Grilo, João Jorge
3-WEM03	PW05	Adaptive Boundary-Seeking Test Generation for Protection Systems: A Vendor-Neutral Framework for Scalable Validation -

		Dhanabal Mani, Abel Gonzalez, Megger, USA; Christopher Ness, Megger – Canada
3-WEM04	PW40	IEC 61850: Some Assembly Required - Craig Preuss, Muhammad Hamid, Black & Veatch, USA
3-WEM05	PW28	Advancements in Line Protection: Model-Based Line Differential Protection - Zoran Gajic, Samir Aganovic, Reijo Pajunen, Hitachi Energy, Sweden; Mike Kockott, Mena Fahmy, Hitachi Energy, USA
3-WEM06	PW38	IEC 61850 - From Protection to Prediction: The Evolution of Substation Data Use - Glenn Wilson, Jonathan Doroh, Southern Company, USA
3-WEM07	PW22	Securing the Digital Substation: Encryption, IEC 61850 and the Journey to Quantum- Safe Utility Communications - Mauricio Subieta, Kenneth Rabedeau, Nokia, USA
3-WEM08	PW12	How to Eat the Elephant: How to Ease Into Your Digital Substation Adoption - Chris Dyer, Keith Gray, Lily Stover, WSP, USA
3-WEM09	PW02	Upgrading High-impedance Bus Differential Protection - Daniel L. Ransom; GE Vernova; USA
3-WEM10	PW01	Optimizing Auto reclosing in Line and Cable, Mixed Feeder - Amir H. Soroush, SIEMENS, USA
3-WEM11	PW45	Modernizing Transmission Grid Operations: Implementing Secure Remote Access and Automated Data Collection with NTCSA's Engineering and Data Concentrator Solutions (EADS) - Kgomotso Manyapetsa, Elekanyani Mugivhi, Sibusiso Mkhatswa, Eskom NTCSA, South Africa; Sunny Wong, SUBNET Solutions Inc., Canada
3-WEM12	PW39	Synchronous Condenser Protection - Jason Eruneo, Duke Energy, USA

Wednesday Afternoon

Utility Panels - After Lunch

*** Topic:** Commissioning an IEC 61850 Substation

John Bettler (Johnny P&C, LLC) – Moderator
Zeus Xioco (Tesco Automation)
Jonathan Doroh (Southern Companies)

*** Topic:** Edge Analytics for Grid Monitoring: Extracting Value from PMU, PQ, and Sensor Data

David Hart (Danovo Energy Solutions) – Moderator
Jim Follum (PNNL)
Jared Bestebreuer (SEL)
Kat Sico (Duke Energy)

4-WEA01	PW09	Network Engineering and Testing of an IEC 61850-Based Distributed Busbar Protection Scheme - Md Aamir Rahmani, Schweitzer Engineering Laboratories, Inc., USA; Wesley
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		Roberto, Schweitzer Engineering Laboratories, Inc., BR; Ali Khan, Mauricio Silveira, Arun Shrestha, Schweitzer Engineering Laboratories, Inc., USA
4-WEA02	PW24	From Analog CT, PT to Digital Process Bus - Hardware-in-the-Loop Protection Studies for Inverter-Dominated Transmission Systems - Alex Stinskiy, Ulrich Muenz, Abhishek Banerjee, Suat Gumussoy, Swen Elpelt, Siemens, USA; Steve Sano – Hawaiian Electric, USA; Tapas Barik – EPRI, USA
4-WEA03	PW29	GGIO is GOOD Actually, Rich Hunt, Danovo Energy Solutions, USA
4-WEA04	PW16	Automatic Transfer Switch over wireless communication - Nic DiFonzo, G&W Electric, USA; Fionan Burke, Hitachi Energy, USA; Galina S. Antonova, Hitachi Energy, Canada
4-WEA05	PW19	Precision Time Protocol (PTP) Cyber Security Update - Herbert Falk, OTB Consulting Services, USA; Werner Abt, Meinberg, USA
4-WEA06	PW44	Six-Phase Transmission - What? Why? & How? - Alex Apostolov, PAC World, USA

Thursday Morning

5-THM01	PW07	Characteristic vs Input – An Analysis of Impedances in Power Line Carrier Channels Applied Over High-Voltage Power Transmission Lines - Craig Palmer, PowerComm Solutions, USA
5-THM02	PW34	Modernization of PST Protection at Angra dos Reis: A Practical Approach Using Digital IEDs - Rodrigo Kenzo Kuniyoshi Pacheco, TSEA Energy, Brazil
5-THM03	PW04	Series-Capacitor Line Protection—Fundamentals and New Challenges - Daniel L. Ransom, GE Vernova, USA
5-THM04	PW11	Rethinking Commissioning for a Digital Substation: From Field to Factory - Priya Raghuraman, Rich Hunt, Danovo Energy Solutions, USA
5-THM05	PW43	UCA update - Joel Greene, UCAiug, USA
5-THM06	PW37	Centralized and Virtualized Protection Architectures for Digital Substations: Concepts, Testing, and Practical Considerations - John Brandao, Siemens, USA; Thalisson Moreira, Jorge Damasceno, Siemens, Brazil; Evandro de Oliveira, Siemens, USA

Expert Panel will be before lunch