27th Annual Georgia Tech Fault and Disturbance Conference May 5-6, 2025

Monday, May 5, 2025		
8:00 AM	Registration	
8:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos, Professor, School of Electrical and Computer Engineering, Georgia Tech Luis Collazo, Southern Company, Chair, Transient Recorder Users Council	
Morning Session - Session Chair: Grace Piercy, Session Vice-Chair: Irene Lu		
8:40 AM	A Case Study of a Shunt and Preexisting Series Simultaneous Fault Luke Booth & Joe Perigo, Schweitzer Engineering Laboratories, Inc.; Eric Johnson, Dominion Energy (South Carolina)	
9:15 AM	Improved Multi-Ended Impedance-Based Fault Locating for Untransposed Transmission Lines Sathish Mutha, Arun Shrestha & Sajal Harmukh, Schweitzer Engineering Laboratories, Inc.	
9:50 AM	Break	
10:10 AM	TVA Response to Geomagnetic Storm May 10-13, 2024 Gary Kobet & Ulyana Elliott, Tennessee Valley Authority	
10:45 AM	A Primer on Harmonics and The Modern Grid Theo Laughner, Lifescale Analytics; Bruce Warmack, Oak Ridge National Labs	
11:20 AM	Best Paper Award, Recognitions	
11:30 AM	Lunch - On Your Own	
Afternoon Session - Session Chair: Lori Hartzog, Session Vice-Chair: Tony Ranson		
12:30 PM	NERC Update - Rich Bauer, NERC	
1:05 PM	TVA PQ Studies Evaluating the Impact of IBR Systems to HV Transmission Operations James Rossman, Grace Piercy & Tim Fritch, Tennessee Valley Authority	
1:40 PM	Break	
2:00 PM	Analysis of 115kV circuit switcher damage during a normal switching operation Song Ji, Irene Lu, Dan Hasenwinkel & Joshua Joseph, National Grid USA	
2:35 PM	Using Artificial Intelligence to Optimize an Automatic Distribution Fault Location System Daniel Sabin, Schneider Electric	
3:10 PM	Break	
3:25 PM	Application of Discrete Wavelet Transform Method to the Analysis of a Submarine Cable Trip to Determine Fault Location Dean Sorensen, Song Ji & Dan Benoit, National Grid USA	
4:00 PM	Fault and disturbance records sharing platform – what it is and why we need it Alexander Apostolov, OMICRON electronics	
4:35 PM	Display and Discussion of Actual Fault Records Brought by Participants Moderator: Ethan Mueller Co-Moderator: ??	
5:00 PM	Adjourn	
5:00 - 9:00 PM	Vendor Exhibits Open	

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	Tuesday, May 6, 2025		
	Morning Session - Session Chair: Angelo Tempone , Session Vice-Chair: Doug Dunay		
8:00 AM	Understanding and interpreting lightning data		
	Ryan Said, Brooke Pearson & Hans Loewenheath, Vaisala		
8:35 AM	Observed Effects of Geomagnetic Disturbances from Wide Area Monitoring System		
	Theo Laughner, Lifescale Analytics;		
	Stan Heckman, Bob Marshall & James Anderson, Whisker Labs		
9:10 AM	Reducing Network Requirements for Sending Triggered Point on Wave Data		
	Ritchie Carroll & Christoph Lackner, Grid Protection Alliance;		
9:45 AM	Thomas Purcell & Jarad Johnston, Dominion Energy Break		
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10:05 AM	Using EHV/HV Load Tap Changers to Correct Regional Voltage Unbalance Jonathan Sides, Grace Piercy & John Hayden, Tennessee Valley Authority		
10:40 AM	PV site violating IEEE 1547 with RVCs		
	Chris Mullins, Power Monitors, Inc.		
	VELCO/VEC/ISO-NE Pilot Project on Novel High-Resolution Point-On-Wave Monitoring for		
	Transmission/Distribution Coordination		
11:15 AM	Dan Kopin & Zakia El Omari, VELCO; Cyril Brunner, Vermont Electric Cooperative (VEC); Xiaochuan Luo,		
	ISO-NE; Kyle Thomas, Ana Ospina & Ryan Quint, Elevate Energy Consulting; Scott Caruso & Steve Glennon, Instrument the Grid; Amir Makki, Softstuf;		
11:50 AM	Lunch - On Your Own		
	Afternoon Session - Session Chair: TJ Purcell , Session Vice-Chair: Jon Goodson		
12:50 PM	Ferroresonance: TVA Experience & Mitigation Methods		
12.50 FW	Gary Kobet, Tennessee Valley Authority		
	Mutual Coupling in Subtransmission Systems—A Real-World Experience		
1:25 PM	Mohit Sharma & Amanvir Sudan, Schweitzer Engineering Laboratories, Inc.;		
1.23	Cleofas Rojas, Los Angeles Department of Water and Power (LADWP);		
	Aadityaa Padmanabhan, Electric Power Research Institute (EPRI)		
2:00 PM	Break Transfer of the Control of the		
2:20 PM	Human-Centric Visualization Platform and Response Methodology for Automated Fault Analysis		
	Anastasios Karles, David Brimmer, Yaritna Matos-Ramos & Michael Baedke, Dominion Energy		
2:55 PM	Enhancing Grid Stability through Reactive Power Support from Inverter-Based Resources (IBRs)		
	Luis Rosa, Furkan Ilgin, Alexander Freeman, Genesis Alvarez, Gad Ilunga & Gerald Warchol, Dominion Energy Virginia		
3:30 PM	Break		
	Unsupervised Clustering for Fault Analysis in High-Voltage Power Systems Using Voltage and Current		
3:50 PM	Signals Julian Oelhaf, Andreas Maier, Siming Bayer, Georg Kordowich & Johann Jaeger, Friedrich-Alexander		
	University of Erlangen-Nuremberg;		
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4:25 PM	A Collection of Bedtime Stories for Protection Engineers - Volume 1		
	Ed Chen, Jianzhuang Huang, Pallavi Kuchikulla, Naresh Malla, Khawla Munawwer, Lizhong Situ & Dan Taft, Consolidated Edison of New York		
5:00 PM	Closing Remarks - Adjourn		
5:00 - 9:00 PM	Vendor Exhibits Open		

Alternate Papers & Coordinator: Chair Greg Bradley ,Vice-Chair Theo Laughner
Application of EPRI PREMS II System to Solve Difficult Distribution and Customer Side Issues James Owens & Eric Auel, EPRI; Brian Gutierrez, CPS Energy; Ed Kaminski, Atlantic City Electric; Tony Murphy, Tennessee Valley Authority; Travis Turnbull, Dominion Energy
High Channel Density Fault Recording with IEC61850 Sampled Values - Challenges and Benefits Abhishek Madhyastha, AMETEK Power Instruments
Case Study - Consolidating Monitoring with Protection Mike Ramlachan & Justin Comer, GE Vernova