

25th Annual Georgia Tech Fault and Disturbance Conference
April 22-23, 2024

Monday, April 22, 2024	
8:00 AM	Registration
8:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos , Professor, School of Electrical and Computer Engineering, Georgia Tech Rene Mendoza , Florida Power and Light, Chair, Transient Recorder Users Council
Morning Session - Session Chair: William Gee , Session Vice-Chair: Lori Hartzog	
8:40 AM	Pilot Testing of an AI Algorithm to Identify Fault Category and Fault Cause from DFR Records Finlay Macleod , Scottish Power; Aaron Acton , Fortive; David Cole, Mark Diamond, & Paul Donegan , Qualitrol Co, LLC
9:20 AM	Power Quality Grid Monitoring at Scale Theo Laughner , Lifescale Analytics; James Anderson & Bob Marshall , Whisker Labs;
10:00 AM	Break
10:20 AM	Analysis of POTT Operation Failure on Complicated Simultaneous Inter-Circuit Faults Song Ji & Irene Lu , National Grid USA
11:00 AM	Understanding the Impact of Time Inaccuracy on Synchrophasors, Traveling-Wave Fault Locating, and Line Current Differential Protection Arun Shrestha, Priyanka Nadkar, & Jackson Fultz , Schweitzer Engineering Laboratories, Inc.
11:40 AM	Best Paper Award, Recognitions
11:50 AM	Lunch - On Your Own
Afternoon Session - Session Chair: TJ Purcell, Session Vice-Chair: Tony Ranson	
12:50 PM	NERC Update - Rich Bauer , NERC
1:30 PM	Digital Fault Recorder Calibration and Other Factors Affecting Fault Location Ethan Mueller & Robert Orndorff , Dominion Energy
2:10 PM	Break
2:30 PM	Disturbance Recording Systems in IEC 61850 Based Digital Substations - Components and Architectures Alexander Apostolov , OMICRON electronics
3:10 PM	Display and Discussion of Actual Fault Records Brought by Participants Moderator: Robert Orndorff Co-Moderator: Theo Laughner
3:50 PM	Break
4:00 PM	User Forum Moderator: TJ Purcell Co-Moderator: Robert Orndorff
5:00 PM	Adjourn
5:00 - 9:00 PM	Vendor Exhibits Open

Tuesday, April 23, 2024	
Morning Session - Session Chair: Grace Piercy , Session Vice-Chair: Irene Lu	
8:00 AM	Optimal Traveling-Wave Fault Locator Deployment and Performance Assessment: A Dominion Energy Case Study Te-Yu Lin, Keanan Zafar, Robert Orndorff, & Micah Till, Dominion Energy
8:40 AM	Analysis of Single-Phasing Event of a Large Pump Storage Motor-Generator and Prevention Methods Frank Ronci, New York Power Authority;
9:20 AM	Interruption of Island Generation and Load when Tie Line Load Limits are Missed Dean Sorensen, National Grid
10:00 AM	Break
10:20 AM	In-situ Frequency Response Measurements for Voltage Sensors and Their Applications Gaurav Singh & Jason Johns, Electric Power Research Institute; Anthony Murphy & Nathan Hooker, Tennessee Valley Authority
11:00 AM	Analysis and Troubleshooting of 500kV line operation with Unit feeder differential misoperation Gary Kobet & George Pitts, Tennessee Valley Authority
11:40 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Angelo Tempone , Session Vice-Chair: Al Ward	
12:40 PM	Identifying Configuration and Monitoring Equipment Issues using PQ Interval Data Jonathan Sides & Anthony Murphy, Tennessee Valley Authority; Christoph Lackner, Grid Protection Alliance
1:20 PM	Analysis of Sub Synchronous Oscillation Events in Power Systems with High Inverter-Based Resource Penetration Thomas Purcell IV, Richard Tuck, Chetan Mishra, & Micah Till, Dominion Energy;
2:00 PM	Estimating Short-Circuit Capacity Using Measurements of Capacitor Switching Operations Anthony Murphy & Jonathan Sides, Tennessee Valley Authority; Surya Santoso, University of Texas-Austin; Gaurav Singh, Electric Power Research Institute;
2:40 PM	Break
3:00 PM	Data Management and AI Tools for the Utility Environment Theo Laughner, Lifescale Analytics
3:40 PM	Time and its Role in Fault and Disturbance Analysis Alexander Apostolov, OMICRON electronics
4:20 PM	20 Years of Reliable Service: Revisiting a Distribution Automation Scheme After 2 Decades Chris Stephens & Dustin McNeely, Coweta-Fayette EMC; Greg Hataway, Bryant Grace, & Brett Cockerham, Burns and McDonnell
5:00 PM	Closing Remarks - Adjourn
5:00 - 9:00 PM EST	Vendor Exhibits Open