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	Analysis of a Major Blackout Event at 2x800 MW Thermal Power Station in Southern Region, India Jerin Jacob, Suresh Kumar K, Ramesh M K, Kumar S P, & Muthukumar Thomas, Grid Controller of India Limited	
3:40 PM	Measurement Examples Showing Power Quality Aspects of Wind and Solar Power Plants David Mueller, EnerNex	
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	

Alternate Papers & Coordinator: Chair Greg Bradley, Vice-Chair Doug Dunay		
	Experience in Implementing Optical Current Transformers within the IEC 61850 Process Bus of a 500 KV Power Substation Carlos Alberto Dutra, Luan Zolin Tominaga, & Jurandir Paz Oliveira, Power Opticks; Sergio Zimath, Vitor Woyakewicz, Tiago Matsuo, & , AQTech; Rubens Nascimento & Luciano Freitas, ENGIE	
	A Review of Current Protection Testing Practices Scott Cooper, OMICRON	