

20th Annual Georgia Tech Fault and Disturbance Analysis Conference

May 01-02, 2017

Monday, May 01, 2017	
8:00 AM	Registration
8:30 AM	<p>Conference Opening - Welcoming Remarks</p> <p>A.P. Sakis Meliopoulos Professor, School of Electrical and Computer Engineering, Georgia Tech</p> <p>Y. Irene Lu National Grid Recorder Users Council</p> <p style="text-align: right;">Chairman, Transient</p>
Morning Session - Session Chair: Theo Laughner, Session Vice-Chair: Jim Hackett	
8:40 AM	<p>Application and Results of Travelling Wave Fault Locator (TWFL) Technology Applied in a 220 kV Line</p> <p>Lucas Barcelos de Oliveira, GE Grid Solutions</p>
9:20 AM	<p>Cost-Benefit Analysis of Staged Testing vs. Online Disturbance Recording: Demonstrating generator model parameter verification for NERC standards MOD-026-1 and MOD-027-1</p> <p>Andrew Kaster, Emerson Network Power, Electrical Reliability Services, Inc.</p>
10:00 AM	Break
10:20 AM	<p>Field Experience with CT Saturation Due To Forced Current Re-distribution</p> <p>Apollo Zhang, BC Hydro</p>
11:00 AM	<p>Understanding the Limitations of Replaying Relay-Created COMTRADE Event Files Through Microprocessor-Based Relays</p> <p>John C. Town, Brett M. Cockerham, Schweitzer Engineering Laboratories, Inc.</p>
11:40 AM	Best Paper Award, Recognitions
11:50 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Greg Bradley, Session Vice-Chair: Danny Aramouni	
12:50 PM	<p>NERC Update.</p> <p>Bob Cummings</p>
1:30 PM	<p>Wide Area Real Time GIC Measurements using Phasor Measurement Units (PMUs) Accurate Fault Locating During a Pole-Open Condition.</p> <p>K. Narandra, N. Perera, ERLPhase Power Tech.</p>
2:10 PM	Break
2:30 PM	<p>Analysis of the Misoperation of DCB Scheme for Transmission Line Protection at National Grid</p> <p>Y. Irene Lu, Song Ji, Michael Gregg, National Grid</p>
3:10 PM	Display and discussion of Actual Fault Records brought by participants - Moderator: Robert Orndorff.
3:50 PM	Break
4:00 PM	User Forum - Moderator: Kyle Thomas
5:00 PM	Adjourn

Tuesday, May 02, 2017	
Morning Session - Session Chair: Jon Goodson, Session Vice-Chair: Marlin Browning	
8:00 AM	GPS Timing in Substations at Dominion – Where we are now and where we need to go Patrick Hawks, Robert Orndorff, Kyle Thomas, Dominion Virginia Power
8:40 AM	The Return of the Dedicated DFR - How IEC 61850 process bus simplified DFR installation Rich Hunt, GE Grid Solutions
9:20 AM	System for Event Summary Notifications: Preliminary Operational Results at SDG&E Tariq Rahman, San Diego Gas & Electric Ellery Blood, Matthew Halladay, Jared Bestebreuer, Schweitzer Engineering Laboratories, Inc.
10:00 AM	Break
10:20 AM	Sample Value Data Concentrator: A Real Need for the Digital Substation Sakis Meliopoulos, George Cokkinides, Georgia Institute of Technology
11:00 AM	Efforts to Reduce Misoperations within the Midwest Reliability Organization Region Richard P. Quest, Midwest Reliability Organization
11:40 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Tony Napikoski, Session Vice-Chair: Alex Echeverria	
12:40 PM	Correlating Protective Relay Reports for System-Wide, Post-Event Analysis Eric McCollum, Blue Ridge Electric Cooperative, Jared Bestebreuer, Eric Hewitt, Chad Schwendiman, Schweitzer Engineering Laboratories, Inc.
1:20 PM	Analysis of the Nuisance Tripping of a Dead Line Adjacent to a Faulted Line Dean Sorensen, National Grid
2:00 PM	Disturbance Recording in Digital Substations Alexander Apostolov, OMICRON Electronics
2:40 PM	Break
3:00 PM	Fault Location and Fault Section Identification in Multi Section Lines using Single Ended Information A.V.S.R.Sai, Sachin Srivastava, Prabakaran S, Suresh Maturu, ABB India Development Center, India
3:40 PM	Solving Old Problems with New Technology Marcelo Zapella, GE Grid Solutions
4:20 PM	A Comparative Study on Cost Savings Offered by Traveling Wave System Fault Locators over Traditional Distance Relays for Long Distance Transmission Lines Jonathan M. Trejo, El Paso Electric Company, David Cole, Qualitrol
5:00 PM	Closing Remarks - Adjourn

Alternate Papers	
Cost-Benefit Analysis of Staged Testing vs. Online Disturbance Recording: Demonstrating generator model parameter verification for NERC standards MOD-026-1 and MOD-027-1 Andrew Kaster, Emerson Network Power, Electrical Reliability Services, Inc.	
Negative-Sequence Overcurrent Considerations for Induction Motor Loads Miles Dupuis, Cleco Power LLC, Krithika Bhuvaneshwaran, Nick Mahoney, Aadityaa Padmanabhan, Schweitzer Engineering Laboratories, Inc.	