

22nd Annual Georgia Tech Fault and Disturbance Analysis Conference

April 29-April 30, 2019

Monday, April 29, 2019	
8:00 AM	Registration
8:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos Professor, School of Electrical and Computer Engineering, Georgia Tech Danny Aramouni ITC Holdings Corp Chairman, Transient Recorder Users Council
Morning Session - Session Chair: Doug Dunay , Session Vice-Chair: Tony Napikoski	
8:40 AM	STATCOM Performance Evaluation using Operation Data in Digital Fault Recorder Duotong Yang, Hung-Ming Chou, Kyle Thomas Dominion Energy Sergey Kynev , Siemens Rebecca Rye , Virginia Tech
9:20 AM	Automated Fault Location Analysis - Data Analysis Method Paul Myrda , Electric Power Research Inst Ryan Dixon , FirstEnergy Mel Gehrs , Gehrs Consulting
10:00 AM	Break
10:20 AM	Analysis of POTT Scheme Misoperation for a Parallel Line Fault at National Grid Yujie (Irene) Lu, Song Ji , National Grid
11:00 AM	When Load Encroachment Fails to Prevent Tripping Line Serving a Wind Farm and an Island Municipality Dean Sorensen , National Grid
11:40 AM	Best Paper Award, Recognitions
11:50 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Greg Bradley , Session Vice-Chair: Irene Lu	
12:50 PM	NERC Update Bob Cummings
1:30 PM	Solutions for Monitoring GIC Events Using a Digital Fault Recording System Nuwan Perera , ElrPhase
2:10 PM	Break
2:30 PM	Impact of Error Correction on Protection Performance during Geomagnetic Disturbances S. Meliopoulos, Jiahao Xie, G. Cokkinides , Georgia Institute of Technology
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/Danny Aramouni
5:00 PM	Adjourn

Tuesday, April 30, 2019

Morning Session - Session Chair: Tony Murphy, Session Vice-Chair: Robert Orndorff

8:00 AM	Improving Line Crew Dispatch Accuracy When Using Traveling-Wave Fault Locators Bogdan Kasztenny, Venkat Mynam, Schweitzer Engineering Laboratories, Inc.
8:40 AM	Experience with automated protection performance evaluation based on disturbance recordings Luc Philippot, Andrea Fortunato, Frédéric Mariton, Marc Koulischer, NetCeler
9:20 AM	Applicability of PMU Based Frequency Measurements for Power System Applications Nuwan Perera, ElrPhase
10:00 AM	Break
10:20 AM	Practical Experience With Ultra-High-Speed Line Protective Relays Frank Heleniak, Schweitzer Engineering Laboratories, Inc. Nicholas Metzger, Benjamin Carstens, Baltimore Gas and Electric Company
11:00 AM	Wideband Voltage Sensors For The Modern Substation Erik Sperling, Florian Gegier, Priffner Technology Ltd. Theo Laughner, PowerGRID-RX Inc
11:40 AM	Lunch - On Your Own

Afternoon Session - Session Chair: Jon Goodson , Session Vice-Chair: Marlin Browning

12:40 PM	Case Studies on the Use of Digital Fault Recorder in an Aluminium Plant Rene Midence, ElrPhase Power Technologies G. Premnath, Easun Reyrolle Limited
1:20 PM	Fault Currents, Circuit Breakers, and a New Method for X/R Calculations in Parallel Circuits Amir Norouzi, Schweitzer Engineering Laboratories, Inc.
2:00 PM	Benefits of Permanent Travel Transducers in High Voltage Ckt Breakers Nicola Gariboldi, Qualitrol Company, LLC Phillip L. Corliss, PMC-Consulting, LLC
2:40 PM	Break
3:00 PM	Analyzing Data At Warp Speed Sean Murphy, Ping Things Kevin Jones, Dominion Energy Theo Laughner, PowerGrid-RX Inc
3:40 PM	Transitioning To Power Quality KPIs To Obtain Better Grid Performance Theo Laughner, PowerGrid-RX Inc
4:20 PM	Power System Cascade Event in a 230 kV Grid by Power Generators Loss of Field Juan Fernando Piñeros, Javier Ferney Llano, Laura Yulieth Agudelo, XM S.A. E.S.P. F. Humberto Montaño, Grupo de Energía de Bogotá Germán A Gutierrez, ISA-INTERCOLOMBIA
5:00 PM	Closing Remarks - Adjourn

Alternate Papers & Coordinator: Alex Echeverria

Mystery Solved: Five Surprises Discovered With Megahertz Sampling and Traveling-Wave Data Analysis
Edmund O. Schweitzer, Schweitzer Engineering Laboratories, Inc.

Effects of Mutual Coupling on the Polarization of DEF Relay: A Case Study
Ahmed Al Zahrani, Jaber Al Shehri, Mohammed Faggal, National Grid

Fleet Management of a Large System of Online Monitors
Peter Glover, Eric Negro, David Cole, Qualitrol