

19th Annual Georgia Tech Fault and Disturbance Analysis Conference

April 18-19, 2016

Monday April 18, 2016	
8:00 AM	Registration
8:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos Professor, School of Electrical and Computer Engineering, Georgia Tech Al Ward Chairman, Transient Recorder Users Council
Morning Session - Session Chair: Irene Lu, Session Vice-Chair: Danny Aramouni	
8:40 AM	Observation of the Application of the IEEE C37.114 Double Ended Fault Location Method Patrick Hawks, Robert Orndorff, Brian Starling, Kyle Tomas, Amir Makki, and Maria Rothweiler, Dominion Virginia Power/Softstuf
9:20 AM	Georgia Transmission Corporation's application and development of a Digital Fault Recorder Dashboard for improving System Reliability Marlin A. Browning, Bobby J. Lowery, Georgia Transmission Corporation
10:00 AM	Break
10:20 AM	Integrating Synchrophasors and Oscillography for Wide-Area Power System Analysis Jared Bestebreuer, Michael Rourke, Greg Zweigle, Dora Nakafuji, and Laura Rogers, Schweitzer Engineering Laboratories, Inc. - Hawaii Electric Light Company
11:00 AM	Investigation of Voltage Notch on Waveform Leads to Saving 500kV PT. Theo Laughner, Tennessee Valley Authority.
11:40 AM	Best Paper Award, Recognitions
11:50 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Sherry Goiffon, Session Vice-Chair: Marlin Browning	
12:50 PM	NERC Update. Bob Cummings
1:30 PM	Accurate Fault Locating During a Pole-Open Condition. Gabriel Benmouyal and Brian Smyth, Schweitzer Engineering Laboratories, Inc.
2:10 PM	Break
2:30 PM	Man-Made Faults – Line Protection Operation for an Unintended Phase Cross-Connect Condition. Jon Larson, Schweitzer Engineering Laboratories, Inc.
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: Sherry Goiffon
5:00 PM	Adjourn

Tuesday, April 19, 2016	
Morning Session - Session Chair: Kyle Thomas, Session Vice-Chair: Jon Goodson	
8:00 AM	Traveling Wave Fault Location in HVDC Lines. Lucas B. Oliveira, Sérgio L. Zimath, Carlos A. Dutra, and Rafael R. Matos, Alstom Grid Brazil
8:40 AM	Non-Linear Generation And Loads, Their Impact On Transmission Network Voltage Harmonics and Available Measurement Techniques. John Merron, BVM Systems Limited.
9:20 AM	Operational Experience with Synchrophasors at a National Transmission Operations Center. Roy Moxley, Markus Wache, and Stefan Steger, Siemens, USA Siemens, Germany, TenneT, TSO, Germany
10:00 AM	Break
10:20 AM	A Comparative Study on Cost Savings Offered by Traveling Wave System Fault Locators over Traditional Distance Relays for Long Distance Transmission Lines. Umer Usman and Jonathan M. Trejo, Qualitrol Company, El Paso Electric Company.
11:00 AM	Analysis of a Transformer Neutral Resistor Damage on an 11kV Bus Fault at National Grid. Y. Irene Lu, Song Ji, National Grid.
11:40 AM	Lunch - On Your Own
Afternoon Session - Session Chair: Tony Napikoski, Session Vice-Chair: Greg Bradley	
12:40 PM	Cap Bank Monitoring. Theo Laughner and Anthony Murphy, Tennessee Valley Authority
1:20 PM	Anti-pump failure and a welded shut reclose contact is a Bad Combination. Joseph Livingston, Great River Energy.
2:00 PM	Disturbance Recording Requirements in Smart Grids. Alexander Apostolov, OMICRON Electronics.
2:40 PM	Break
3:00 PM	Improvements in Fault Location Capability at CenterPoint Energy to Reduce Response Time and Improve Accuracy of Fault Reporting. Mike Pakeltis, Jay Russell, Elias Marquez, and David Cole, CenterPoint Energy/Qualitrol
3:40 PM	Advanced Automated Analytics Using OSS Tools. Fred Elmendorf, Grid Protection Alliance.
4:20 PM	Analysis and Simulation of Dynamic Performance of PMU According to IEEE C37.118.1-2011 Standard. Marcelo N. Agostini, Alstom Grid Brazil.
5:00 PM	Closing Remarks - Adjourn

Alternate Papers	
Statistics of Events Analysis in the Colombia Power System, Methodology and Recommendations Juan Fernando Piñeros Saldarriaga, XM S.A. E.S.P. Colombia Power System Operator	
Analysis of the Impact of Pervasive Wide Area Communication Network Conditions on the Disturbance Recordings from Phasor Measurement Units (PMUs). A.C. Adewole, Cape Peninsula University of Technology Cape Town, South Africa	
Experiences at Installation and Commissioning of a WAMS at Companhia Paranaense de Energia (COPEL). Carlos Eduardo Ferreira Pimentel, Marcelo Neujahr Agostini, Adriano Oliveira Pires, Gilmar Francisco Krefta Reason, Companhia Paranaense de Energia (COPEL)	

This paper was also presented