21st Annual Georgia Tech Fault and Disturbance Analysis Conference April 30-May 1, 2018

Monday, April 30, 2018		
8:00 AM	Registration	
8:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos Professor, School of Electrical and Computer Engineering, Georgia Tech Kyle Thomas Dominion Energy Chairman, Transient Recorder Users Council	
Morning Session - Session Chair: Danny Aramouni, Session Vice-Chair: Jon Goodson		
8:40 AM	Transmission Line Fault Location Explained R. Orndorff, K. Thomas, P. Hawks, B. Starling, Dominion Energy A. Makki, M. Rothweiler, SoftStuf	
9:20 AM	The Blimp Event of 2015 – Description and Analysis of the Outages Caused by a Runaway Blimp on PPL Electric Utilities Transmission System G. Bray, PPL Electric Utilities	
10:00 AM	Break	
10:20 AM	Instrumentation Error Correction within Merging Units S. Meliopoulos, G. Cokkinides, Y. Kong, Georgia Institute of Technology	
11:00 AM	TVA's Transmission Voltage Unbalance Evaluation G. Kobet, T. Laughner, D. Marler, A. Murphy, J. Rossman, TVA	
11:40 AM	Best Paper Award, Recognitions	
11:50 AM	Lunch - On Your Own	
Afternoon Session - Session Chair: Doug Dunay, Session Vice-Chair: Jim Hackett		
12:50 PM	NERC Update Bob Cummings	
1:30 PM	Analysis of the unexpected operations at a 345kV National Grid substation associated with capacitor bank switching S. Ji, I. Lu, D. Markis, M. Gregg, National Grid	
2:10 PM	Break	
2:30 PM	Greg 230kV Substation Shunt Capacitor Bank Failure And Cascading Area Disturbances L. Hisugan, Pacific Gas & Electric	
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 1, 2018		
Morning Session - Session Chair: Irene Lu, Session Vice-Chair: Marlin Browning		
8:00 AM	Centralized Disturbance Recording Systems in IEC 61850 Based Digital Substations – Principles, Benefits and Challenges A. Apostolov, OMICRON Electronics	
8:40 AM	Automated Waveform Characterization for Providing Situational Awareness to Distribution System Operators C. Benner, D. Russell, Texas A&M University	
9:20 AM	Accurate and Economical Traveling-Wave Fault Locating Without Communications A. Guzmán, B. Kasztenny, V. Mynam, Y. Tong, Schweitzer Engineering Laboratories, Inc.	
10:00 AM	Break	
10:20 AM	Fault investigation using data from PMU, DFR and Traveling-Wave fault locators: Experiences from Companhia Paranaense de Energia (COPEL) on combining these tools for optimal fault analysis G. Krefta, L. Barcelos de Oliveira, S. Zimath, C. Pimentel, COPEL	
11:00 AM	Back to the Basics – Event Analysis Using Symmetrical Components A. Sudan, Schweitzer Engineering Laboratories, Inc.	
11:40 AM	Lunch - On Your Own	
Afternoon Session - Session Chair: Tony Napikoski, Session Vice-Chair: Greg Bradley		
12:40 PM	Strategic Data Sharing for Improved Fault Analysis F. Elmendorf, Grid Protection Alliance	
1:20 PM	230kV Power System Cascade Event by Single Phase Power Swing Phenomenon J.Saldarriaga, J. Zuleta, L. Zapata, F. Montaño, G. Ramírez, T. Rivera, XM S.A. E.S.P. Colombia Power System Operator	
2:00 PM	Modern On-line Monitoring for High Voltage Circuit Breakers N. Gariboldi, Qualitrol P. Corliss, PMC-Consulting	
2:40 PM	Break	
3:00 PM	Common Format for Naming Intelligent Electronic Devices (COMDEV) J. Hackett, Mehta Tech Rick Cornelison A. Makki, SoftStuf	
3:40 PM	Wavelet based Signature Analysis of Grid Events (SAGE) for Identifying the type and location of Event using synchrophasor data S. Mohanan, S P Kumar, Anbunesan G, Aravind M N, Abishek, POSOCO	
4:20 PM	Analysis of NPCC Protection System Misoperations Q. Le, R. Sahiholamal, NPCC	
5:00 PM	Closing Remarks - Adjourn	

Alternate Paperss & Coordinator: Lucas Barcelos

Case Studies in Facility Wide Time Synchronization

T. Smith, C. Crites, GE Grid Solutions

Intelligent Circuit Sensor based Fault Detection, Isolation and Restoration for Transmission Lines with T-connection Taps

J. Fan, Southern States

Travelling Wave Fault Locator (TWFL) Technology Applied to HVDC Transmission Line A. Soeth Jr, P. Freire de Souza, GE Grid Solutions D. Custódio, Interligações Elétricas do Madeira