23rd Annual Georgia Tech Fault and Disturbance Analysis Conference Mon-Tue, April 26-27, 2021

(This Is A Virtual Conference Using The Hopin Online Events Platform)

Online Registration (https://pe.gatech.edu/courses/fault-and-disturbance-analysis-conference)

(Registration Ends on Thursday, April 22, 2021)

Monday, Apri	Monday, April 26, 2021 - All Times are Eastern Daylight Time		
08:00 AM	Attendees Begin Entering Hopin Stage (Speakers Will Enter Back Stage) Link With Login Instructions Will Be Emailed to Registrants 24 Hours Prior To Conference Start		
08:30 AM	Conference Opening - Welcoming Remarks A.P. Sakis Meliopoulos Professor, School of Electrical and Computer Engineering, Georgia Tech Anthony Murphy Tennessee Valley Authority Chair, Transient Recorder Users Council		
Morning Session - Session Chair: Lori Hartzog, Session Vice-Chair: Al Ward			
08:40 AM	Power Quality Standards Development within the IEEE Power & Energy Society Dan Sabin, Schneider Electric, Matt Norwalk, Southern California Edison, Kevin Kittredge, Electrotek Concepts, Steven Johnston, Eaton		
09:20 AM	Fault Analysis and the Fourier Transform Explained Amir Makki, Maria Rotweiler, Softstuf; Robert Orndorff, Dominion Energy		
10:00 AM	Break		
10:20 AM	Functional Testing of Disturbance Recording Systems in Digital Substations Alexander Apostolov, OMICRON Energy		
11:00 AM	Time in Substation Protection and Control Systems: Principles and Applications Alexander Apostolov, OMICRON Energy		
11:40 AM	Best Paper Award, Recognitions		
11:50 AM	Lunch - On Your Own		
	Afternoon Session - Session Chair: Greg Bradley, Session Vice-Chair: Tony Ranson		
12:50 PM	NERC Update Rich Bauer, NERC		
01:30 PM	DFR Configuration Control: Solutions for Optimized Performance and Compliance Phillip Crittenden, Anthony Murphy, Tennessee Valley Authority; Christoph Lackner, Grid Protection Alliance		
02:10 PM	Break		
02:30 PM	A National Infrastructure for Artificial Intelligence on the Grid Theo Laughner, LifeScale Analytics; Sean Murphy, PingThings, Inc.		
03:10 PM	Display and Discussion of Actual Fault Records Brought by Participants Moderator: Robert Orndorff		
03:50 PM	Break		
04:00 PM	User Forum Moderator: Kyle Thomas		
05:00 PM	Adjourn		

Tuesday, April 27, 2021 - All Times are Eastern Daylight Time		
Morning Session - Session Chair: Irene Lu, Session Vice-Chair: Jon Goodson		
08:00 AM	Benefits of Integrating DFR and PQ Data with an Asset Information Model that Includes Mapping to Planning Models, SCADA Historians, GIS Databases, and Asset Management Systems Stephen Wills, Christoph Lackner, Russsell Robertson, Grid Protection Alliance; Anthony Murphy, Tennessee Valley Authority	
08:40 AM	Short Circuit Model Data Requirements and Improvements for an Automated Fault Location Xinyang Dong, Juergen Holbach, Quanta Technology, LLC, Robbie James, Pacific Gas & Electric	
09:20 AM	GTC Fault Trace Tool Theo Laughner, LifeScale Analytics; Marlin Browning, Lori Hartzog, Joey Lowery; Georgia Transmission Corporation	
10:00 AM	Break	
10:20 AM	Use of DFR and PQ Data for Automated Restrike and Trip Coil Energization Analysis Christoph Lackner, William Ernest, Grid Protection Alliance; Anthony Murphy, Tennessee Valley Authority	
11:00 AM	Automatic Assessment of Electrical Load Impact due to Voltage Sags Dan Sabin, Jon Bickel, Schneider Electric	
11:40 AM	Lunch - On Your Own	
Afternoon Session - Session Chair: Doug Dunay, Session Vice-Chair: Angelo Tempone		
12:40 PM	Evaluation of Electrical Degradation in High Voltage Circuit Breaker Monitoring Nicola Gariboldi, Qualitrol Corporation, LLC; Phillip Corliss, PMC-Consulting, LLC	
01:20 PM	A Most Unusual Event Analysis Frank Stacom, Stacom Engineering Company Ed McGann, Vermont Electric Power Company	
02:00 PM	Analysis of the Unexpected Operations at a 345kV National Grid Substation Associated with Capacitor Bank Switching-off Operation Song Ji, Yujie (Irene) Lu, National Grid	
02:40 PM	Break	
03:00 PM	Event Investigation of 69 kV Double-Circuit Faults Amanvir Sudan, Schweitzer Engineering Laboratories, Inc. Ahsan Mirza, Christopher Bolton, Girolamo Rosselli, Sergio Flores, San Diego Gas & Electric	
03:40 PM	Using High-Resolution Oscillography to Improve the Performance of Controlled Switching for Transformers Brett Hampson, Ritwik Chowdhury, Schweitzer Engineering Laboratories, Inc. Vetti Bala, Genesis Energy	
04:20 PM	Analysis of a Transformer Differential Relay Over-trip on an External Fault at National Grid Yujie (Irene) Lu, Song Ji, National Grid	
05:00 PM	Closing Remarks - Adjourn	

Alternate Papers - Chair: Danny Aramouni, Vice-Chair: Robert Orndorff
Field Experience With Open-Phase Testing at Sites With Inverter-Based Resources
John Town, Brett Cockerham, Ritwik Chowdhury, Schweitzer Engineering Laboratories, Inc.;
James Gahan, Cypress Creek Renewables; Ariel Valdez, Dominion Energy
Experiences with Wind and Solar Plant Modeling and Validation for Bulk Power Systems
Interconnection Studies
Sarina Adhikari, David Mueller, Bob Zavadil, Enernex