

Tuesday, March 26th							
	Room	Time	Session	Title of Paper	Presenter Name	Presenter Company	
	Paper Session 1 - General - Eric Udren	Rudder Theatre	8:00AM	Paper Session 1: General I	Protection of Wind Electric Plants	Amin Zamani	Quanta Technology
			8:45AM	Paper Session 1: General I	Detection of Sub-Synchronous Control Interaction Oscillations Near Renewable Generation and HVDC	Ilia Voloh	GE Vernova
			9:20AM	Paper Session 1: General I	Detecting and Isolating Falling Conductors in Midair—First Field Implementation on Double-Phase Distribution Circuits	Tanushri Doshi	Schweitzer Engineering Laboratories, Inc.
			9:55AM	Break	Break	Break	Break
			10:15AM	Paper Session 1: General I	Digital Substation Application Concepts for IBR Renewable Energy Plants	Wayne Hartmann	GE Vernova
			10:50AM	Paper Session 1: General I	Line Protection Operate Time: Speed vs. Circuit Breaker Wear, Power System Stability and Protection Security	Mike Kockott	Hitachi Energy
			11:25AM	Paper Session 1: General I	Development and Implementation of Short Circuit Models for Wind Turbine Generators	Sukumar M Brahma	Clemson University
			12:00PM	Lunch	Lunch	Lunch	Lunch
	Paper Session 2 - Distribution - Vinod Sekhar	Memorial Student Center 2400	1:30PM	Paper Session 2: Distribution	A Voltage-Controlled Overcurrent based Adaptive Protection Scheme for Microgrids	Tapas Kumar Barik	Electric Power Research Institute (EPRI)
			2:00PM	Paper Session 2: Distribution	Optimized Distribution Protection & Control - Adventures in Digital Substation Centralization	Wayne Hartmann	GE Vernova
			2:30PM	Paper Session 2: Distribution	Solving Complex Feeder Protection Challenges and Reducing Wildfire Risks With Remote Measurements	Bogdan Kasztenny	Schweitzer Engineering Laboratories, Inc.
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 2: Distribution	20 Years of Reliable Service: Revisiting a Distribution Automation Scheme After 2 Decades	Greg Hataway; Dustin McNeely	Burns and McDonnell; Coweta-Fayette EMC
			4:00PM	Paper Session 2: Distribution	Slingshot Disconnection! Understanding the effect of disconnecting an un-stabilized, ungrounded source	Sebastien Billaut	Commonwealth Associates, Inc.
			4:30PM	Paper Session 2: Distribution	Grid-Parallel and Islanding Operation Challenges of a Large Battery Energy Storage System at Cape Cod		
	Paper Session 3 - Transmission I - Benton Vandiver	Memorial Student Center 2406A	1:30PM	Paper Session 3: Transmission I	Review of SIR Calculations for Distance Protection and Considerations for Inverter-Based Resources		
			2:00PM	Paper Session 3: Transmission I	Automated Solutions and Remote Settings Changes - AEP's Approach to Implementing PRC-027-1	Jeff Iler	American Electric Power
			2:30PM	Paper Session 3: Transmission I	Securing Line Current Differential on Multiplexed Communication Channels	Craig Wester	GE Vernova
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 3: Transmission I	Cross differential protection - what it is and why do we need it	Alexander Apostolov	OMICRON electronics
			4:00PM	Paper Session 3: Transmission I	Generation Line-Tap Connection Impact on Transmission Ground Fault Protection	Sarat Chandra Vegunta	Siemens Industry, Inc.
			4:30PM	Paper Session 3: Transmission I	Dependability of Transient-Based Line Protection Elements and Schemes	Bogdan Kasztenny	Schweitzer Engineering Laboratories, Inc.

ay, March 27th	Paper Session 4 - Protection & Control System Design I - Eduardo Calmenares	Memorial Student Center 2406B	1:30PM	Paper Session 4: Protection & Control System Design I	Protection System Redundancy Criteria for NERC TPL-001.5	Scott Hayes	Pacific Gas and Electric
			2:00PM	Paper Session 4: Protection & Control System Design I	Advancements in Relay Contact Output Self-Testing and Trip Circuit Monitoring Capabilities		
			2:30PM	Paper Session 4: Protection & Control System Design I	Practical Approaches for the Digital Twin Representation of Protection & Control Systems	Linda Zhao; Mehrdad Chapariha	Hydro One Networks Inc.; Quanta Technology
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 4: Protection & Control System Design I	Digital substation with Process Bus - a comparative review of IEC61850-9-2 and IEC 61869-9 standards	Alexandr Stinskiy	Siemens
			4:00PM	Paper Session 4: Protection & Control System Design I	Implementing SCADA Redundancy	Justin Turner	GE Vernova
			4:30PM	Paper Session 4: Protection & Control System Design I	Virtual Protection Relay: Myth or Reality?	Jose Ruiz; Montie Smith	Doble Engineering; Dell Technologies
	Paper Session 5 - Real World - Gene Corpuz	Rudder Theatre	8:00AM	Paper Session 5: Real World	Shunt Reactor Events and Failures	Gary Kobet	Tennessee Valley Authority
			8:35AM	Paper Session 5: Real World	Generator Power Swing Out-of-Step Protection and Analysis of Misoperation Events	Joshua Hughes	Qualus
			9:10AM	Paper Session 5: Real World	Cross Interlock Application in Relay Settings Development and Optimal Coordination	Ibukunoluwa Korede	Dominion Energy
			9:45AM	Break	Break	Break	Break
			10:15AM	Paper Session 5: Real World	Transmission line protection scheme selection for HV lines with IBRs: Utility example	Subramaniam (Ram) Dalavai Viswanathan	Entergy Services LLC
			10:50AM	Paper Session 5: Real World	Unique Mis-operation of a BES Element (Generator Cushman Unit 21 & 31) that required Corrective Actions to include enabling and update of Relay Settings based on NERC PRC-004-6	John Kweku Amoo-Otoo; Ruly Parikesit	Tacoma Public Utilities (TPU), Tacoma Power
			11:25AM	Paper Session 5: Real World	What's the Rush? 2.0, Can IBRs Handle Inrush Like Rotating Machines?	Joseph C. Johnson, EIT	Commonwealth Associates, Inc.
			12:00PM	Lunch	Lunch	Lunch	Lunch
	Paper Session 6 - Distribution / DER - Bret Burford	Memorial Student Center 2406A	1:30PM	Paper Session 6: Distribution/DER	Adaptive Protection for Meshed Secondary Networks using Network Protectors	Tapas Kumar Barik	Electric Power Research Institute (EPRI)
			2:00PM	Paper Session 6: Distribution/DER	Balancing DER Ride-Through Requirements and System Protection: A Utility Perspective	Bryan Hosseini, Jason Eruneo, Amin Zamani	Duke Energy/Quanta Technology
			2:30PM	Paper Session 6: Distribution/DER	A Simplified Approach to Distribution Feeder Protection for Microgrids With Inverter-Based Resources		
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 6: Distribution/DER	Effect of Solar Distributed Generation Protection Requirements on Distribution Substation Upgrades	Ibukunoluwa Korede	Dominion Energy
			4:00PM	Paper Session 6: Distribution/DER	A Case Study on DER Integration in a Microgrid: Impact of Hybrid Battery and Hydrogen Energy Storage Systems on PG&E's 12kV Network	Muhammed Rahim	Energy Vault
			4:30PM	Paper Session 6: Distribution/DER	Protection of Distribution Grid with DER and IEEE 1547.2 Protection Guidance	Janette M. Sandberg	PGE

Wednesd	Paper Session 7 - Transmission II - Jared Brayton	Memorial Student Center 2400	1:30PM	Paper Session 7: Transmission II	Apply Dynamic System Rating as a Proactive WAMPACS	Dan Ransom	GE Vernova
			2:00PM	Paper Session 7: Transmission II	A Fresh Look at Practical Shunt Reactor Protection		
			2:30PM	Paper Session 7: Transmission II	Charging Current: Basics, Compensation Approximations, Errors, and Remediation	JC Theron	GE Vernova
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 7: Transmission II	Detailed Bus Modeling for Enhanced Power System Representation and Network Model Management (NMM) Implementation	Jorge Vélez	Quanta Technology, LLC
			4:00PM	Paper Session 7: Transmission II	Employing Graph Traversal Techniques to Simplify Three- and Multi-Terminal Line Applications		
			4:30PM	Paper Session 7: Transmission II	Applying Dependable and Secure Protection With Quadrilateral Distance Elements		
	Paper Session 8 - Protection & Control System Design II - Craig Wester	Memorial Student Center 2406B	1:30PM	Paper Session 4: Protection & Control System Design II	Exploring IEEE C37.120-2021 Guide for Protection System Redundancy for Power System Reliability	Melvin Moncey Joseph	Black & Veatch
			2:00PM	Paper Session 4: Protection & Control System Design II	Case Study: Designing Centralized Protection and Control Systems for a Distribution Substation at Duke Energy		
			2:30PM	Paper Session 4: Protection & Control System Design II	Functional Testing of Centralized IEC 61850 Based Protection and Control Systems	Alexander Apostolov	OMICRON electronics
			3:00PM	Break	Break	Break	Break
			3:30PM	Paper Session 4: Protection & Control System Design II	Using Time Synchronization to Improve Protection & Control Systems	Mike Ramlachan	GE Vernova
			4:00PM	Paper Session 4: Protection & Control System Design II	Multiple Relay setting groups based Adaptive Protection for Radial Distribution Feeder	Tapas Kumar Barik	Electric Power Research Institute (EPRI)
			4:30PM	Paper Session 4: Protection & Control System Design II	Applying Digital Secondary Systems to Optimize Power System Reliability		
Thursday, March 28th	Paper Session 9 - Substation - James Carroll	Memorial Student Center 2406A	8:00AM	Paper Session 9: Substation	Application of Modern Differential to Fully Protect Various Types of Phase Shifting Transformers	JC Theron	GE Vernova
			8:35AM	Paper Session 9: Substation	Improving Ground Fault Sensitivity for Transmission Lines Near Inverter-Based Resources		
			9:10AM	Paper Session 9: Substation	Summary Paper for IEEE C37.104 Guide for Autoreclosing on AC Distribution and Transmission Lines	Rafael Garcia	Oncor
			9:45AM	Break	Break	Break	Break
			10:15AM	Paper Session 9: Substation	Useful Applications for Differential Relays With Both KCL and ATB 87 Elements		
			10:50AM	Paper Session 9: Substation	Application of Standard 87T Differential Protection on Phase-Shifting Transformers	Mike Kockott	Hitachi Energy
			11:25AM	Paper Session 9: Substation	Locating Multiphase Multisection Faults in Capacitor Banks		
	Paper Session 10 - Generation / Industrial / Testing - Derrick Haas	Memorial Student Center 2406B	8:00AM	Paper Session 10: Generation/Industrial	Requirements and Practical Experience for Particular Generation Protection Functions	Mike Kockott	Hitachi Energy
			8:35AM	Paper Session 10: Generation/Industrial	Why Can't I Start My Motor? - Demystifying Motor Relay Lockouts	Christine Crites	GE Vernova
			9:10AM	Paper Session 10: Generation/Industrial	A Case Study of Implementing a Stator Ground Protection Scheme at Long Spruce Generating Station	Kris Manchur or Gilberto Maioli	Manitoba Hydro or Hitachi Energy
			9:45AM	Break	Break	Break	Break
			10:15AM	Paper Session 10: Testing	High Voltage and High Current Testing of Non-Conventional Instrument Transformers for Digitalized Protection of Power Systems	Hadi Khani	Quanta Technology
			10:50AM	Paper Session 10: Testing	Cloud Based End to End testing of Protection Schemes	Àbel Gonzalez	Megger
			11:25AM	Paper Session 10: Testing	Testing of Travelling Wave Fault Locators	Joerg Blumschein	SIEMENS