

Session Program

3-7 Jun 2018



2018 IEEE International Power Modulator and High Voltage Conference

Poster 1 - Dielectrics and Electromagnetic Phenomena

Jackson Lake Lodge, Jackson Lake Lodge
101 Jackson Lake Lodge Road, Jackson Lake Lodge, Moran, WY 83013 Phone: (307) 543-3100

Monday 4 June

13:30

Poster 1 - Dielectrics and Electromagnetic Phenomena

Poster Session | Location: Buffalo/Moose

Comprehensive Evaluation Method of Transformer Condition Based on Cloud Matter Element and CGT

Ultrasonic Localization Simulation and Experiment of Partial Discharge Based on Double Helix Sensor Array

Temporal-spatial Diagnosis of Pulsed Plasma Jet Array Interaction: The Effect of Input Gas and Jet Spacing

A High Voltage, Self-Matching, Nanosecond Pulser for Calibration and Experimentation

Speaker

Cameron Harjes

Electro-thermal aging law of epoxy resin under bipolar exponential decay pulse voltage

Speaker

Prof. Yan Mi

Application of Semiconductor Material in Insulation Protection of 10kV Switchgear in High Temperature and Humidity Environment

Speaker

Dr Wang Xilin

Dielectric Modulus: Effective and Novel Tool in Transformer's Insulation Assessment

Investigation of Surface Charge Accumulation and Dissipation Mechanisms Based on Solid Conductivity and Dielectric Relaxation for The Insulator of GIL Under DC Voltage

Study of the Nonlinear Phenomena in Ceramic Dielectric Composite Used in Compact PFLs+

Speaker

Dr Jose Rossi

A Test Stand for Investigating Multipulse Insulator Surface Flashover

Speaker

Dr Andrews Heather

Accumulation and Decay of Surface Charge on Silicon Rubber under DC Voltage

Speaker

Mrs Yicen Hou

Study on "charge speckle" phenomenon of charge accumulation on Polymer Insulator Surface

Metal Removal Mechanism from Optical Discs Using Pulsed Power

Speaker

Mr Tomohiko Yamashita

Compatibility Testing of Printed Polymers Exposed to Water and Insulating Oil Environments

The development of μ s-class response speed and high-current Rogowski coil.

Experimental Observations of the Transient Characteristics of Series dc Arcs with Capacitive Loads

Speaker

Mr Eric Bauer

Investigation of Discharge Processes in a High-Pressure Pulsed Arc Discharge Environment

Research on Intelligent Feedback Partial Discharge Monitoring System of Switchgear Based on Wireless Distributed TEV Sensors

Simulation research on the extraction of partial discharge ultrasonic direct wave signal

Dielectric and Magnetic Nonlinear Materials for NLTLs*

Speaker

Dr Jose Rossi

Tortuous Spark Paths of SF6 in Non-Uniform Electric Field

Development of a High Voltage, 240ps Pulse Generator in GIS for PD Experiment

Partial Discharge Patterns of Oil-Paper Insulation under Harmonic Superimposed AC Voltages

Research on Influence of Mechanical Stress on Insulation Characteristics of Oil-immersed Pressboard

Calculations of dielectrophoretic forces on non-homogenous dielectric particles with different shapes

The effect of mechanical stress on differently thermal aged Kraft paper

A Series Arc Fault Location Method for DC Distribution System Using Time Lag of Parallel Capacitor Current Pulses

Speaker

Mr Xiaojun Liu

First operation and experimental results of the High Voltage RadioFrequency Test Facility

Initial Evaluation of Pulse Width and Rise Time Impact on Transient Plasma Ignition for Combustion

Speakers

Mr David Alderman, Mr Christopher Tremble

Analysis on Interruption Performance of Molded Case Circuit Breaker according to External Magnetic Field

Speaker

Young-Maan Cho

The Impact of Electrode Surface Roughness on Field Emission Driven Breakdown for Microscale Gaps

15:00