

Session Program

3-7 Jun 2018



2018 IEEE International Power Modulator and High Voltage Conference

Poster 2 - High Voltage Design and Power Modulator Components

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

Tuesday 5 June

13:30

Poster 2 - High Voltage Design and Power Modulator Components

Poster Session | Location: Buffalo/Moose

Injection kicker for HESR using semiconductor switches.

Dynamic Impedance Load for Over-current Testing of Semiconductor-based Marx Generators

Solid State Power Emulator Improvements for Power Device Evaluation

Speaker

Mr Richard Thomas

Active gate control for multiple series connected SiC MOSFETs

Experimental Results of an Isolated Resonant DC-DC Converter for High Voltage Application

A fast 5kV 5kA power supply for Active Electrodes of Fusion Generator C2-W (Norman).

Measured data and model for erosion of a spark gap at continuous 800 Hz, 10 J pulsed operation

Research of a New DC Breaker Based on the Elec-tromagnetic Forming Technology

Speakers

tonghai ding, Dr Yun Xu, Hongfa Ding

Ribbon Cables as Stripline Components

Comparative Study of Pulse Trigger Circuit and DC Trigger Circuit for Xenon Flash Lamp Driver

Speaker

Prof. Hong-Je Ryoo

An 8kV Series-Connected MOSFETs Module That Requires One Single Gate Driver

Speaker

Mr Tianjun Long

HIGH CURRENT SENSING THROUGH FARADAY ROTATION OF POLARIZED LIGHT OF VARYING WAVELENGTHS IN FIBERS II

Speakers

Mr Sean Coffey, Dr T. Chris Grabowski

Automated GTO Measurement, Validation and Stack Selection System for the LHC Beam Dumping System

Klystron Modulators for the FAIR pLINAC

Speaker

Mr Sven Pütz

A Review of Voltage Sharing Control Methods for Applications of Series-Connected IGBTs in Pulsed Power Generation**Surge Current Analysis of COTS 1200V Silicon Carbide JBS Diodes****Speaker**

Dr Stephen Bayne

A Transformer Vibration Signal Separation Method Based on BP Neural Network**Speaker**

Chunhui Gu

Phase I Summary: Neutral Beam Injector Grid Power System**Partial discharge characterization in soft dielectrics using thin film PVDF sensors to detect ultrasonic waves****Analysis of Commercial GaN HEMT in Overcurrent Operations under Higher Ambient Temperature****Speaker**

Mr Matthew Kim

Transient Voltage Distribution Characteristics of Ultrahigh-Voltage Transformer Windings under Impulses with Different Front Time**“Large” HV Structures: Transient Analysis of Voltage Distribution from First Principles****SOLID STATE LASER TRIGGERING SYSTEM FOR THE HERMES-III ACCELERATOR****Speaker**

Chris Grabowski

Optimized High Voltage Analog Switch IC using Low Breakdown SOI technology**A pulsed current supply based on solid-state Marx generators in parallel****Study on Electrically Excited Winding Vibration Frequency Response Under Various Clamping Pressures****Speaker**

Mr Cao Zhan

Study on the Influence of Temperature on Transformer Core Vibration**Development of High Voltage Multilevel Step-wave Voltage Source****Speaker**

Mr Tianjun Long

Saturation behavior of nano-crystalline pulse compression cores**Speaker**

Claus Strowitzki

A High Voltage, Solid-State Switch for Magnetron Driving**Development of a Discharge Circuit for High Voltage DC Power Supplies****An Analysis of Strike and Restrike Characteristics of the Exploding Film Phenomenon Under Different Temperature and Pressure Conditions****DESIGN AND CONSTRUCTION OF HIGH VOLTAGE MODULATORS TO PRODUCE RECTANGULAR PULSES****Speaker**

Antoine SILVESTRE de FERRON

High Density Capacitors for Pulsed Power Applications**Speaker**

Kenneth Struve

POWER MOSFET AND TANTALUM CAPACITOR PERFORMANCE IN LOW DUTY FACTOR HV CONVERTER DESIGNS**Speaker**

Mr Joshua Gilbrech

A SERIES INJECTION RESET CIRCUIT FOR HIGH VOLTAGE MAGNETIC SWITCH APPLICATIONS**Speaker**

Mr Joshua Gilbrech

Analysis and design of a passive protection system for the High Voltage RadioFrequency Test Facility circuit components

15:00