Session Program

5–9 Jul 2016

2016 IEEE Power Modulator and High Voltage Conference

Poster 2-A

Palace Hotel San Francisco
2 New Montgomery St. San Francisco, CA 94105United States

Thursday 7 July

13:30

Poster 2-A
Poster Session | **Location:** Palace Hotel San Francisco, Twin Peaks

High-Current Arc Discharge (HCAD) Test System for Aeronautic Power

Speaker
Clay Nunnally

Research on 10kV cascade pulse power supply for discharge applications

Speakers
Tao Shao, chengyan ren

Experimental Study on Variations of Rabbit Tissue Impedance during Irreversible Electroporation Ablation

Speakers
Mr chenguo yao, shoulong dong, Mr yajun zhao

Picosecond Pulse Delivery to Biological Tissue by a Dielectric Rod Antenna

Speaker
Mr Ross Petrella

Pulsed power as the main tool of energy-efficient non-thermal microbiological decontamination

Research of Muscle Contraction and the Effects of Tissue Ablation in Vivo Exposed to High-Frequency Electric Fields

Speakers
Mr chenguo yao, shoulong dong

Auto-Tuning Oscillator for the Generation of Nonthermal Plasma as a Therapeutic Treatment for Melanoma

Speaker
Kyle Thompson

Study of Effects of Nanosecond Pulsed Electric Fields on Cancer Cell by using in Vivo and ex vivo Assay.

Speaker
Shun Ogura

Observation of Discharges in NOx Treatment Reactor Using Nanosecond Pulsed Powers and the Reactor Improvement

Speaker
Mr Kouji Omatsu

Fast Medium Voltage DC Solid-State Circuit Breaker

Speaker
Mr Michael Kempkes

Analysis of Fault Characteristics of Converter in VSC-HVDC

Speaker

Mrs Xiaoyun Sun

On the Circulating Current Control of a LCL Converter for Tokamak

Speaker

Mr Huarong Li

Basic design and results of Regulated high voltage power supplies utilized for heating systems at IPR for SST-1

Speakers

Mr C.B. Sumod Sumod, Mr Dipal Thakkar Dipal, Mr L.N. Gupta Laxminarayan, Mr Pareshkumar Pareshkumar, Mr U.K.Baruah Ujjwal

Multi-Parameter Analysis in Single-cell Electroporation Based on the Finite Element Model

Speakers

Dr Chenguo Yao, Ms Hongmei Liu

Impact of Pulsed Power Loads on Advanced Aircraft Electric Power Systems with Hybrid Fuel-Cell/Battery APU

Speaker

Mr Hassan El-Kishky

A ZCS AC/DC Converter with LCL

Speaker

Prof. GE LI

A Comparison of Piezoelectric Transformer Technologies for HVDC Converter Applications

Speaker

Peter Norgard

Thermal and Efficiency Study of a solid-state dual Marx generator combined a pulse transformer

Speaker

Prof. Kefu Liu

Experimental Study on Reverse Recovery Characteristics of High Power Thyristors in HVDC converter valve

Speaker

Ms Ke Yue

CHARGE-TRANSFER BASED SENSORLESS VOLTAGE FEEDBACK IN HV CAPACITOR CHARGERS

Speakers

Mr Argenis Bilbao, Dr Michael Giesselmann

Investigation of Harmonic Distortion in Multi-Pulse Rectifiers for Large Capacitive Charging Applications

Speaker

Mr David Dodson

Fuzzy Logic Control of a Hybrid Energy Storage Module for Naval Pulsed Power Applications Using a Hardware-in-the-Loop Testbed

Speaker

Mr Isaac Cohen

Experimental study of a helical coil operating mechanism for future switchgear applications

Speaker

Paul Gregor Nikolic

Nano-Grids: Future Power Grids – Concept and Review Paper

Speaker

Adel El Shahat

Optimized Small Scale Hydropower Generator Electrical System Design & Modeling Based on Real-Measurements

Speaker

Dr Adel El Shahat

Research on Calibration Method for Single High Pulse Voltage for Semiconductor Devices Test Instruments

Speaker

Prof. CHONG LIU

CONTINUOUS SWITCHING OF ULTRA-HIGH VOLTAGE SILICON CARBIDE MOSFETS

Effects of Algae on the Flashover Performance of Insulators Covered with RTV-Coating

Speaker

Dr Yawei Li

Electric Pulse Modification of Mammalian Cell Suspension Conductivity

Effect of brine and temperature in sterilization using nanosecond pulsed electric field for packaged fresh foods

Speaker

Mr Koki Saito

Effect of the Number of Inner Wire Electrodes on Surfactant Treatment Using Nanosecond Pulsed Powers

Speaker

Mr Mitsuru Morimoto

Development of high power burst pulse generator based on magnetic switch for bioelectrics application

Speaker

Keita Yasu

Molecular Dynamics Based Assessment of Electric Pulse Enhancements of Cell Membrane Poration by Pressure Waves

Speaker

Ze Zhang

Electric Pulse Manipulation of Stem Cell Proliferation and Differentiation

Electric Pulse Parameter Exploration for Lipid Extraction from Microalgae

Speaker

Allen Garner

A Uniform Electric Field Producing Microfluidic Chip for Study and Analysis of Irreversible Electroporation

Speaker

Mr Lingyu Gong

Down Hole Pulse Generator Must Survive 300 C at 9 km Depth: Low-cost Access to Ubiquitous Geothermal Heat Worldwide

Speaker

Mr William Leighty

Treatment of Aqueous Pollutant by a Discharge Plasma Reactor Using a Porous Membrane

Speaker

Mr Tomohiro Mori

Review and Recent Developments in DC Arc Fault Detection

Speaker

Dr Xiu Yao

Evaluation of Rotational and Vibrational Temperature of Nanosecond Pulsed Surface Discharge on Water

Speaker

Mr Takahiro Sadamatsu

15-Stage Compact Marx Generator Using 2N5551 Avalanche Transistors

Speaker

Dr Tom Huiskamp

A Control System for an Isolated LLC Resonant DC-DC Converter

Speaker

Prof. Claudio Motta

Impact of Wind on Pollution Accumulation Rate on Outdoor Insulators Near Shoreline

Speaker

Muhammad Majid Hussain

Study on inducing apoptosis and stimulating the irreversible electroporation effect for tumor treatment based on high frequency nanosecond pulsed electric field

Special Purpose Power Electronics Converters for Nano-Grids & Smart Homes Applications

Speaker

Dr Adel El Shahat

Energy Storage Modeling Library (ESML) for DC NANO- GRID

Speaker

Adel El Shahat

Closed Transition Transfer Switch based on Multi-mode Photovoltaic Inverter for Preventing Power Outage

Speaker

Sewan Heo

Tokamak Vertical Stability Coil Power Supply based on Modular Multilevel Converter

Speaker

Mr Inhwan Lee

15:00