

Session Program

5-9 Jul 2016



2016 IEEE Power Modulator and High Voltage Conference

Poster 3-A

<http://www.sfpalace.com/>Palace Hotel San Francisco
2 New Montgomery St. San Francisco, CA 94105United States

Friday 8 July

13:30

Poster 3-A

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

The Movement of Bubbles on High Repetition Discharges in Tap Water

Speaker

takuma oikawa

DEVELOPMENT OF HIGH-POWER GAS DISCHARGE AND ELECTRONIC VACUUM DEVICES FOR PULSED ELECTROPHYSIC. CURRENT STATUS AND PROSPECTS

Speakers

Mr Dmitriy Bochkov, Dr Victor Bochkov

GENERATION OF INTENSIVE DIRECTED CONTROLLED X-RAY RADIATION DURING CAVITATION OF FAST LIQUID STREAM

Nanosecond Pulse Discharges in an Inhomogeneous Electric Field in atmospheric air

Speaker

Tao Shao

Effects of pulsed magnetic field on performances of semiconductor devices

Speaker

Mr Yang Yang

The development of three stage electromagnetic forming facility and its timing control system

Speakers

Dr Jianfeng Xie, Prof. Xiaotao Han

Design of a Compulsator to drive a Railgun

Speaker

Mr Apurva Kulkarni

Improvement of Ozone Producing Coaxial Reactor by Tensioned Inner Wire Electrode in Using Nanosecond Pulsed Power

Speaker

Mr Tomohide Ikemoto

Coupled Thermal-Electrical Simulation Analysis for Carbon Fiber Composites Exposed to Lightning Current Impulse Based on Deleting Cell Process

Generation and Characterization of a Pulsed Dense Plasma with Helium*

Speaker

Mr Thomas Manegold

Observation of Underwater Pulse Discharge and Influence of Deposited Energy on Shock Wave

Speaker

Dr Xiandong Li

Quasi-Analytical Derivation of Parallel-Plate Multipactor Trajectories in the Presence of Higher-Order Mode Perturbations**Speaker**

Mr Scott Rice

Computer Simulation Evaluation of an Electric Current Impulse generator**Mode Transition in Microsecond-Pulse Gliding Discharges at Atmospheric Pressure****Speaker**

Cheng Zhang

polytetrafluoroethylene films Surface treatment of atmospheric pressure three-dielectric-layer barrier discharge plasma driven by sub-microsecond repetitive pulses**Speaker**

Ms Xi Li

Introduction to non-magnetically confined fusion plasma torch-device.**Speakers**

Dr Boris Gutman, Mr Giovanni Villanova, Mr Nicholas Belluccia

Effect of Distance between Electrodes for Water Treatment by Plasma**Speaker**

Taichi Sugai

TANDEM FREE ELECTRON X-RAY LASER ON CHANNELING RELATIVISTIC PARTICLES**Speakers**

Dr Mykhailo Vysotsky, Prof. Vladimir Vysotskii

Study of Accelerating Surface Charge Dissipation on Epoxy Treated by Dielectric Barrier Discharge**Speaker**

Tao Shao

Optical and Illuminant Characteristics of Nanosecond-Pulse Diffuse Discharges in a Point-to-point Gap**Speaker**

Cheng Zhang

The characteristics of repetitive frequency discharge of Plasma Synthetic Jet Actuators**Speaker**

Mrs Chengyan Ren

Behavior of Pulsed Streamer Discharges in Flowing Water**Speaker**

Prof. Masahiro Akiyama

Study on the characteristics of the shock wave induced by underwater pulsed current discharge

Speaker

ZhiYuan Li

Research on 24MJ PFN for electromagnetic launch discharged in sequence**Speaker**

Mr Chaoliang Jin

Experiments about discharge in water with changing conductivity and applied voltages**Speaker**

Masatoshi Fue

MODELING AND SIMULATION OF MULTIPACTOR DISCHARGE ON DIELECTRIC WINDOW UNDER HPM IN VACUUM**Speaker**

Mr Bai-Peng Song

Effect of Solution Electric Conductivity on Surfactant Treatment Using Nanosecond Pulsed Powers**Speaker**

Mr Kai Shimizu

Spatial resolved observation of repetitive nanosecond volume discharges under airflows**Speaker**

Tang Jingfeng

PIC/DSMC Simulation of Radiation Transport Dynamics in Helium Gas Discharges**Speaker**

Andrew Fierro

Research of Airflow Control Using Surface Dielectric Barrier Discharge Plasma at Atmosphere Pressure**Speaker**

Dr Liang Yang

Effects of increasing the repetition rate in nitrogen oxides treatment using pulsed discharge plasma**Speaker**

Mr Takashi Ishikawa

Analysis of Motion and Discharge of the Free Conducting Wire Particle in DC GIS**Speaker**

Mr JIAN WANG

Motion Behavior of Free Conducting Wire-type Particles in SF6 Gas under DC Voltage**Speaker**

YOU Haoyang

The Effects of Lightning Discharges on Control & Communication Cables and Antenna Systems**Speaker**

Mr Anil Civil

Experimental Investigation on Humidity Effects on the Variations of Positive DC Corona Discharge**Speakers**

Prof. Bian Xingming, Prof. Tiebing Lu

Design of a 5.5MJ Charge Dump Power Supply for the PPPL FLARE Experiment**Speaker**

Dr Paul Melnik

Electric Pulse Parameter and Electrode Geometry Impact on Plasma Formation**Speaker**

Allen L. Garner

Pre-ionization roles of upstream discharges for downstream discharges under airflows**Speaker**

Yongjie Ding

Spectral mapping of the corona discharge**Speaker**

Mr Ganesh Avhad

Self-sustaining conditions for nanosecond pulsed volume discharges under airflows**Speaker**

Liqui Wei

Optical diagnostics of single-wire electrical explosion in vacuum**Speaker**

Huantong Shi

SEPARATION PROCESS OF PLASTIC AND METAL FROM CD-R USING PULSED POWER**Speaker**

Tomohiko Yamashita

STUDY OF THE CORONA EFFECT : APPLICATION TO THE IONOCRAFT**Design and Implementation of a Hierarchical Control System Architecture for a Modular Pulsed Power Supply System****Speaker**

Mr Anil Civil

PLASMA-ASSISTED COMBUSTION TECHNOLOGY USING NANOSECOND PULSED POWER**Speaker**

Mr Ryo Nakamura

15:00