

## **Session Program**

**5-9 Jul 2016**



# **2016 IEEE Power Modulator and High Voltage Conference**

## ***Poster 1-A***

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

## Wednesday 6 July

13:30

### Poster 1-A

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

#### **HIGH-FIELD EXCITED FLASHOVER ACROSS SOLID DIELECTRICS IN VACUUM: MECHANISM AND SUPPRESSION**

**Speaker**

Guan-Jun Zhang

#### **Investigation Dielectric Materials at Different Frequency Ranges**

**Speaker**

Dr Emel Onal

#### **Development of Variable Charging System for Voltage Adjustment**

**Speaker**

Ryoma Ogata

#### **sub-microsecond Pulse Generators Based on Magnetic Pulse Compression System**

**Speaker**

Mr Dongdong Zhang

#### **Influence of Metallic Particle on Flashover Characteristics of Post Insulator in SF6 Under Negative DC Voltage**

**Speaker**

Can Guo

#### **Permittivity and Permeability in Double Positive Metamaterials Fabricated with Barium Titanate**

**Speaker**

Kelli Noel

#### **Numerical analysis on the output characteristics of a linear switch array pulse modulator**

**Speaker**

Mr Tonglei Wang

#### **Performance improvement of a compact pulsed neutron generator with a vacuum arc ion source**

**Speaker**

zhen yang

#### **Dielectric properties and surface flashover characteristics of Al<sub>2</sub>O<sub>3</sub>-filled epoxy resin in subatmospheric pressure under 20-200 kHz applied pulsed fields**

**Speaker**

Hulya Kirkici

#### **Characterization and Fabrication of Carbon Nanotubes Grown on Ceramic Substrates for High Temperature RFID Applications**

**Speaker**

Baha Yakupoglu

**A High Repetition-rate Bipolar Nanosecond Pulse Generator Based on Magnetic Pulse Compression System****Speaker**

Mr Yan Mi

**DESIGN AND PERFORMANCE OF AN 8 LINE GYROMAGNETIC NONLINEAR TRANSMISSION ARRAY****Speaker**

Mr Hunter Cravey

**GYROMAGNETIC NONLINEAR TRANSMISSION LINE WITH SEALED SPARK GAP****Speaker**

Robert Ryan

**Flashover characteristics of metal particle contaminated GIS insulator under DC voltage****SURFACE FLASHOVER CHARACTERISTICS OF GROOVED NANODIELECTRICS UNDER PULSED VOLTAGE IN PARTIAL VACUUM****Speaker**

Mr Yuxuan Chen

**A 400A programmable linear current pulse generator****Speaker**

Tony Fowler

**Effects of mechanical pre-stress on the dielectric strength of alumina Al<sub>2</sub>O<sub>3</sub>****Speaker**

Ms Zenjebil Jouini

**Dielectric Strength Testing of 3D Printed Polymeric Materials****Speaker**

Dr Brad Hoff

**Partial discharge measurements and IEC standards: Justification of the use for their inclusion in afterlaying test for extruded cable systems****Speakers**

Dejan Bešlija, Mirza Batalović

**Electro-Convection in Liquids in Absence of Ionization****Speaker**

Alexander Pokryvailo

**Analysis of Insulation Failure of Polymer Composite Blocks Using High Frequency Wave Shapes****Speakers**

Prof. Elanseralathan Kasinathan, Mr Logesh Guber, Makendran Gunasekaran, Mr Malaiyappasamy Sivashanmugam

**Insulation deterioration of twisted pairs due to high frequency switching of power Electronic Converters (PECs)**

**Screamer: An Optimized Pulsed-Power Circuit Analysis Tool****Towards sub-ppm Shot-to-shot Amplitude Stability of SwissFEL Resonant Kicker****Speaker**

Martin Paraliev

**Effects of Thyatron Aging on Klystron RF Pulse Stability****Speaker**

Paolo Delgiusto

**Construction and commissioning Xbox3: a very high capacity X-band test stand****Speaker**

Gerard Mcmonagle

**GW-class relativistic backward-wave oscillator with pulse duration above 200 ns****Speaker**

Dr Xingjun Ge

**High Power Microwave Production with a Nanosecond Pulser and Nonlinear Transmission Line****Speaker**

James Prager

**A two dimensional circuit model of induction cavity****Speaker**

Mr Guo Fan

**A 100kV Nanosecond Pulse Generator Based on Magnetic Pulse Compressor****Speaker**

dong zhang

**Stability of thyatron switching in LCLS linac modulators****Speaker**

Dr Andrew Benwell

**The reseaches on compact repetitive pulsed power system based on Marx generator****Speaker**

Prof. shirong hao

**Pressure rise calculation due to an internal arc fault in HV metal-enclosed SF6 GIS****Analysis of Peak Output Voltage and Droop from a Nonuniform Transmission Line****Speaker**

Chongyang Mao

**High Power Microwave Pulse Compressors With a Variable Geometry of Accumulative Resonant Cavity****simulation and design of the multi-channel isolated charging for solid-state MARX generators****Chopper-Marx Circuit for Application to ILC: 1. Switching and Voltage Adding**

**Speaker**

Mr Ryutaro Suzuki

**Chopper-Marx Circuit for Application to ILC: 2. Charging and System Control****Speaker**

Mr Takumi Hayashi

**Modular Marx Generator****Speaker**

Kirk Rainwater

**A Marx-Based Power Converter topology as a Current Source for Pulsed Magnets in Particles Accelerators****Speaker**

Dr Davide Aguglia

**A Compact High Voltage Pulse Generator for Three Plasma Synthetic Jet Actuators Synchronous Discharge****Speaker**

Mrs Chengyan Ren

**Thyratron Stability Improvements of SNS Extraction Kicker System****MULTICHANNEL SIGNAL SYNTHESIS IN FREE SPACE****Speaker**

Zachary Shaw

**Influence of Test Conditions on the Thermally Stimulated Current Characteristics of Silicone Rubber Used for Composite Insulators****Speaker**

Ms Lijuan Gao

**A Repetitive Rate Pulse System Used in Lifetime Evaluation of High Voltage Ceramic Capacitors****Speaker**

Mr Jiaqi Yan

**Custom designed Dummy Loads for HV Pulsed Power Modulator Testing****Speaker**

Michael Osemann

15:00