

Session Program

18-22 Jun 2017



2017 IEEE Pulsed Power Conference

Poster session III - High Power Electronics

Hilton Brighton Metropole Hotel
Kings Road Brighton BN1 2FU United Kingdom

Wednesday 21 June

13:30

Poster session III - High Power Electronics

Poster Session | **Location:** Hilton Brighton Metropole Hotel, Hall 4 / Cambridge

A Novel Active Soft-Switching Converter with loss-less Snubber for MTEM Electromagnetic Transmitter

Speaker

Xuhong Wang

DESIGN AND IMPLEMENT CONTROL SYSTEM OF HIGH VOLTAGE PULSE POWER SUPPLY

Speaker

Mr WEIBIN LI

Evaluation of High Frequency Solid State Switches for Pulsed Power Applications Using a 12 kW Variable Voltage Testbed

Speaker

Stephen Bayne

Design of Time Sequence Discharging Control System for Pulse Power Supply Modules

Speaker

Kun Liu

Optimization of High Frequency Transformer Based on Advanced Genetic Algorithm

Speaker

Zhiting Yang

Zero average flux tracking algorithm for high frequency transformers used in long pulse applications

Speaker

Max Collins

Improving high power precision Electron Beam and Ion Beam performance and reliability by improving High Voltage power quality

Speaker

Martin Court

A High Power Charging Power Supply for Capacitive Pulsed Power System

Speaker

Dr Jun Zhou

Solid state thyatron replacement switch feasibility

Speaker

Mr Gianfranco RAVIDÀ

Design of Active Voltage Droop Compensator for Solid-State Long Pulse Modulator

Speaker

Sung-Roc Jang

A new synchronization method based on compensation of phase deviation for pulsed generator power supply**Speaker**

Dr Yun Xu

Improving low power (30W to 250W average) pulsed power performance and reliability by improving High Voltage power quality**Speakers**

Gary Byfield, Martin Court

Research of distributed charge based on magnetic self-balance**Speaker**

Mr Qianyu Zhou

Wide Injection Range OCVD System for Lifetime Spectroscopy Techniques**Speaker**

Shelby Lacouture

Application of current charged pulse forming lines for generation of high voltage nanosecond pulses**Speaker**

Mr Alexander Lyublinsky

Analysis and Design of a Series-Parallel Resonant Converter without Inductor Filter for use in High Voltage Capacitor Charger Applications**Speaker**

Youngseok Bae

Design and Experiment of a 3-phase Series-Parallel Resonant Type High Voltage Capacitor Charger**Speaker**

Youngseok Bae

Skin-parameter of massive conductors and transients in electrical circuits of pulse power facilities**Speaker**

Boris Fridman

Heavy Pulse Currents LTT Switch Unit**Speaker**

Boris Fridman

Silvaco-based electrothermal simulation of 10 kV 4H-SiC p-i-n diode under pulsed condition**Speaker**

Bejoy Pushpakaran

Design of a 30MJ capacitor-based pulsed power supply for EML**Speaker**

Zhenxiao Li

15:00

HIGH CURRENT PULSED POWER SUPPLIES FOR ST-40 SPHERICAL TOKAMAK

Speaker

Bas Eikelboom