Session Program

22-28 Jun 2019



PPPS 2019

Poster - Compact and Explosive Pulsed Power and Pulsed Power Systems

DoubleTree at the Entrance to Universal Orlando 5780 Major Blvd. Orlando, Florida, 32819, USA

Friday 28 June

13:30

Poster - Compact and Explosive Pulsed Power and Pulsed Power Systems

Poster Session

Location: DoubleTree at the Entrance to Universal Orlando, 5780 Major Blvd. Orlando, Florida, 32819, USA | **Conveners:** Dr Carlos Martins, Dr Brett Huhman

5P35 - Design of a Pulsed Alternator to drive a Single Stage Induction Coilgun

Speakers

Apurva Kulkarni, Mr M. Joy Thomas, Mr Ashish Sharma, Ranashree Ram

5P71 - Pulsed Power Systems Developed for the Lockheed Martin Compact Fusion Reactor

Speaker

Dr Adam Steiner

5P69 - Design and Commissioning of a Medium Voltage Testbed Deploying Transient Loads*

Speaker

Mr Alexander Johnston

5P66 - Reduction of the conducted disturbances generated by the ignition systems of GlidArc plasma reactors

Speaker

Dr Grzegorz Komarzyniec

5P56 - A METHOD OF ENERGY RECOVERY SWITCHING FOR PULSED POWER USING SIC-MOSFET

Speaker

Prof. Takashi Sakugawa

5P55 - ESS Klystron Production Test Stand

Speaker

Mr Michael Kempkes

5P50 - A Means of Producing Precisely Delayed High Peak Power Optical Pulses with Low Jitter

Speaker Maxwell Fazekas

5P49 - Solid-State LTD Module Using SiC-MOSFETs

Speaker Mrs Yu Feng

5P45 - Implementation of Line Type High Voltage Nanosecond Rectangular Pulse Generator with Adjustable Pulse Widths for Liquid Discharge Applications

Speaker Dr Anitha V P

5P60 - Study on the Collaborative Work of Multiple Meat Grinder with SECT Modules

Speaker Bei Li

5P34 - PULSE POWER SYSTEM

Speaker

Mr Peter Stone

5P47 - Modular, High-Frequency, High-Voltage Inductive Adders

Speaker

Mr Chris Bowman

5P04 - An ultra-portable X-pinch driver for hard X-ray diagnostics

Speaker

Simon Bland

5P09 - TECHNICAL DEVELOPMENT AND FIRST RESULTS OF ISENTROPIC COMPRESSION EXPERIMENTS ON THE ICE-16 TEST FACILITY

Speaker Frédéric Zucchini

5P05 - High-Energy Electric Gun for Exploding Foil Initiators

Speaker

Dr M. A. Rhodes

5P07 - Pulsed power supply for 2 kA, 5 MeV linear induction accelerator

Speaker Aleksandr Akimov

5P06 - Study on the restrike characteristics of metal electrical explosion

Speaker

YU Hong-Xin

5P02 - Probability of PBX Detonation Due to Impact Forces and Surface Grit

Speaker Mr Austin Hewitt

5P01 - High Speed Imaging of Polymer Bonded Explosives under Mechanical Stresses

Speaker

Ryan Lee

5P31 - IMPROVEMENT OF THE SWITCHES RELIABILITY ON THE CEA 1MV LTD

Speaker Mr Arnaud LOYEN

5P30 - Concept designs of a compact LTD generator with a pulse rise time of 100 ns.

Speakers Ivan Lavrinovich, Denis Molchanov

5P29 - Triggered gas switches for use in capacitor-switch assemblies for LTD technology

5P28 - Sustaining High Power RF Signal Generation in a Positive Feedback Network

Speaker

A N M Wasekul Azad

5P26 - Repetitive Triboluminescence X-Ray Source by Peeling Tapes

Speaker

Dr Seizo Furuya

5P27 - Pulsed Power Discharge Under a Highly Capacitive Load

Speaker Mr James Allen

5P22 - Compact, Mobile, Automated Pulser Designed for Ease of Use

Speaker Wayne Cox

5P17 - Characterization of Compact Short Pulse Power Supply for Non-Thermal Plasma Discharge Applications

Speaker

Ajeet Dhakar

5P16 - The Optimization of High Voltage Nanosecond Pulse Generator with Auxiliary Trigger Circuit

Speaker Lanxi Li

5P15 - Design of Modular High-Voltage Nanosecond Pulse Generator with Adjustable Rise/Fall Time Based on MMC Topologies

Speaker Hui Wan

5P14 - Performance Analysis of a Compact Pulse Forming Stage and a Microstrip Type Balun for High Power Electromagnetics Applications

Speaker

Ms Ozge Eren Demirgoz

5P13 - OPTIMIZING COMPACT MARX GENERATOR NETWORKS FOR CHARGING CAPACITIVE LOADS: SEQUENTIAL TRIGGERING AND PRACTICAL CONSIDERATIONS

Speaker

C. Jerald Buchenauer

5P12 - Cinco: A Compact High-Current Driver for High Energy Density Physics

Speaker Travis Bejines

5P61 - Meat Grinder with ACC Circuit

Speaker Hao Sun

5P63 - Push-pull plasma power supply - combining techniques for increased stability

Speaker Mr Piotr Krupski

5P38 - Utilization and Optimization of Superconducting Coil Parameters in Electromagnetic Launcher Systems

Speaker

Mr Hakan Polat

5P48 - High Average Power Nanofarad-Scale Capacitor Charging on Sub-Microsecond Timescales

Speaker

Tim Ziemba

5P65 - The influence of the architecture of the power system on the operational parameters of the GlidArc plasma reactor

Speakers

Dr Grzegorz Komarzyniec, Mr Piotr Krupski

5P42 - The Development of Capacitive Nonlinear Transmission Lines and Their Performance Limits

Speakers

Dr Elizete Gonçalves Lopes Rangel, Jose Rossi

5P44 - Development of an RF circuit amplifier fed by a low power nonlinear transmission line

Speaker Dr Lauro Paulo Silva Neto

5P24 - Indigenously developed pulsed power sources for nonequilibrium plasma applications

Speaker Prof. Suryakant Gupta

5P33 - Linear Transformer Driver for HEDP experiments at UC San Diego

Speaker Nicholas Aybar

5P72 - Design and Performance of a 4 MV, 14 kJ Marx Generator

Speaker Dr Jon Mayes

5P23 - Measurements on Combined 12.5/17.5 kV Prototype Inductive Adder for the CLIC DR Kickers

Speaker Viliam Senaj

5P43 - Dynamics of Melting Solenoids for Laser Experiments on the National Ignition Facility

Speaker Evan Carroll

5P19 - Advanced NanoDielectric Material Scaling for Further Size Reduction of Ultra-High Voltage, 500 kV Capacitor Prototypes

Speaker Randy Curry

5P74 - 50 kV Resonant Full Bridge for Klystron Driving

Speaker

James Prager

5P10 - Design and simulation of compact explosively-driven magnetic flux compression (MFC) generators for high energy applications.

Speaker

Dr George Vunni

5P58 - Development of a compact nanosecond pulse generator

Speaker

Ryuki Matsukawa

5P59 - Energy Density Optimization of Inductive Pulsed Power Supply Module

Speaker Zhen Li

5P51 - Present Status of the Chopper-type Marx Modulator Development at KEK

Speaker

Hiromitsu Nakajima

5P67 - Pulsed Power Modulator with Active Pull-Down Using Diode Reverse Recovery Time

Speakers Su-Mi Park, Seung-Ho Song, CHANGI CHO

5P64 - Development of High Voltage Power Supply for The Upgrade KSTAR Helicon Current Drive System

Speaker Dr Kwangho Jang

5P62 - Development of bipolar pulsed transmitter based on modular structure for mineral exploration

Speaker Jung Soo Bae

5P57 - All solid state ultra-fast turn-on time compact MARX generator

Speakers Mr Alexander Gertsman, Mr Zeev Rubinshtein

5P52 - Investigations on an optimized current pulse for pulsed flash lamps dedicated to high energy laser in repetitive mode.

Speakers Dr Baptiste CADILHON, Robin VERGE, Dr Antoine de Ferron

5P41 - Design of A Vehicular 200-kJ Pulsed Power System for Electrothermal-Chemical Launch Experiment