

Session Program

18-22 Jun 2017



2017 IEEE Pulsed Power Conference

Oral session 13 - High-Voltage Insulation and Dielectric Breakdown Phenomena, Explosively-Driven Pulsed Power - Session Chair : Yakov Krasik

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

Wednesday 21 June

10:00

Oral session 13 - High-Voltage Insulation and Dielectric Breakdown Phenomena, Explosively-Driven Pulsed Power - Session Chair : Yakov Krasik

Session | **Location:** Hilton Brighton Metropole Hotel, Oxford Hall

10:00–10:15

CALCULATION OF BREAKDOWN VOLTAGE OF GAS GAPS WITH ARBITRARY GEOMETRY ON EXAMPLES OF SPHERES AND TOROIDS

Speaker

Alexander Pokryvailo

10:15–10:30

Hybrid kinetic-liquid model of the nanosecond discharge initiated by runaway electrons

Speaker

Vasily Kozhevnikov

10:30–10:45

PRELIMINARY EXPERIMENT ON SHOCK WAVES GENERATED BY UNDERWATER ELECTRICAL EXPLOSION OF WIRES

Speaker

Liuxia Li

10:45–11:15

Space Plasma Generator for Controlled Enhancement of the Ionosphere

Speaker

James Kim

11:15–11:30

The research on the design method and pre-arcing characteristic of the pulsed discharge fuse

Speaker

Mr Chaoliang Jin

11:30–11:45

Testing High Voltage (200kV) DC cable and feed-through designs in rep-rated modes*

Speaker

Dr MICHAEL MAZARAKIS

11:45–12:00

Effects of Contamination Accumulation on The Surface Temperature Distribution of a Glass Insulator String

Speaker

Mr Chibuike Ilomuanya

12:00–12:15

Initial Experiments with the LANL “Ranchero-S” Flux Compression Generator

Speaker

Dr Erik Haroz

12:15–12:30

Partial Discharge in High Voltage DC Cables

Speaker

Mr Euan Morris

12:45