

Session Program

18-22 Jun 2017



2017 IEEE Pulsed Power Conference

Oral session 11 - Plasma Z-Pinches, Pulsed X-ray Sources, High-Power Diodes, Wire Array Implosions - Session Chair : Michael Mazarakis

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

Tuesday 20 June

15:00

Oral session 11 - Plasma Z-Pinches, Pulsed X-ray Sources, High-Power Diodes, Wire Array Implosions - Session Chair : Michael Mazarakis

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

15:00-15:15

Direct observation of electrothermal instability structures in the skin layer of an intensely Ohmically heated conductor

Speaker

Dr Thomas Awe

15:15-15:30

Results of comparison between underwater explosions of Cu and Al wires and investigation of symmetry of a shock wave generated by a cylindrical wire array explosion

Speaker

David Yanuka

15:30-15:45

Preconditioned wire array Z-pinch driven by a double-pulse current generator

Speaker

Dr Jian Wu

15:45-16:15

Generation of cylindrically convergent shockwaves in water on the MACH facility

Speaker

Simon Bland

16:15-16:30

Recent progress in implosion of a quasi-spherical shock waves and x-ray imaging of exploding wires

Speaker

Mikhail Nitishinskiy

16:30-16:45

Cygnus Performance on Five Subcritical Experiments

Speaker

Dr John Smith

16:45-17:00

Magnetic-field evolution in Z-pinch implosion with preembedded axial magnetic field

Speaker

Dmitry Mikitchuk

17:00-17:15

OVERVIEW OF THE EXPERIMENTAL DATA ON THE USE OF A VACUUM ARC DISCHARGE FOR Z-PINCHES

Speaker

Dr Alexander Roussikh

17:15-17:30

Experimental Platform Development for Studying Vacuum Power Flow Physics at the Sandia Z Accelerator

Speaker

George Laity

17:30