

## **Session Program**

**3-7 Jun 2018**



# **2018 IEEE International Power Modulator and High Voltage Conference**

## ***Oral 3 - Solid State Modulators***

Jackson Lake Lodge, Jackson Lake Lodge  
101 Jackson Lake Lodge Road, Jackson Lake Lodge, Moran, WY 83013 Phone: (307) 543-3100

# Monday 4 June

15:30

## Oral 3 - Solid State Modulators

**Session** | **Location:** Explorers Room

15:30–16:00

### High-Gain Persistent Nonlinear Conductivity In High-Voltage Gallium Nitride Photoconductive Switches

**Speaker**

Dr Alan Mar

16:00–16:15

### Development of a 120 kV, 600 A Marx-type power modulator for fast step-wise arbitrary output waveforms

**Speaker**

Martin Hochberg

16:15–16:30

### Solid-State Thyatron Replacement

**Speaker**

Michael Kempkes

16:30–16:45

### Evaluation of Trends in Optimal Design of Pulse Transformers for Long Pulse High Power Applications

**Speaker**

Max Collins

16:45–17:00

### Measurements on 12.5/17.5 kV Inductive Adders with +/-200 ppm Pulse Flatness over 900 ns for CLIC Damping Ring Kickers at CERN

**Speaker**

David Woog

17:00–17:15

### Performance of High Voltage Bipolar Pulse Generator with Fast Push-Pull Solid-State Switch Modules

**Speaker**

Vladimir Peplov

17:15–17:30

### Transformerless High-Gain DC-DC Converter with SiC Cascode JFETs for High-Voltage Applications

**Speaker**

Mr Saleh S. Alharbi

17:30