

2008 IEEE International Power Modulator Conference



FIRST CALL FOR PAPERS



The IEEE Dielectrics and Electrical Insulation Society is sponsoring the 2008 IEEE International Power Modulator Conference to be held in Las Vegas, Nevada, USA at the Mandalay Bay Resort & Casino on May 27-31, 2008. This conference combines both **Power Modulators** and the **High Voltage Workshop**.

Please submit abstracts by **January 15, 2008** at www.cavs.msstate.edu/pmc2008

For further information please contact the Conference Chair:

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2008 IEEE International Power Modulator Conference

Power Modulators

Technical Program Chairs: James Dickens (James.Dickens@ttu.edu) and Bill Nunnally (NunnallyW@missouri.edu)

The Power Modulator sessions of this conference are the premier forum for the exchange and dissemination of technical information on systems and components related to power modulator technology. The meeting is intended for engineers and scientists involved in the design, fabrication, specification, or utilization of power modulators. All topics have a strong emphasis on repetitive systems/power modulators. The Conference Proceedings are published as brief technical papers. Papers are being solicited in the following topic areas:

- New and Novel Applications of Power Modulators
- Power Modulator Configurations
- Repetitive Pulsed Power Systems and Accelerators
- Solid State Power Modulator Systems
- Capacitive and Inductive Charging of Power Modulators Systems
- Rotating Machines for Power Modulators
- Solid State Switches
- Closing and Opening Switches
- Repetitive Pulsed Magnetics and Applications
- Dielectric Breakdown in Components and Power Modulators
- High Power Microwaves
- High Power Pulse Antennas
- High Power Laser Systems and Applications
- Electromagnetic Launchers
- High Current Systems and Applications
- Biological/Medical Applications with Power Modulators
- Environmental Applications with Power Modulators
- Power Modulator Applications in Vacuum/Low Pressure
- Diagnostics in Power Modulators

High Voltage Workshop

Technical Workshop Chairs: Steve Pronko (Steven.Pronko@ga.com) and Dan Schweickart (Daniel.Schweickart@wpafb.af.mil)

The 2008 Workshop will continue the tradition of providing a forum for High Voltage Technology issues in defense and commercial applications. The purpose of this workshop is to facilitate the technical exchange of generic (multi-industry) high voltage technology related to practical issues of design, manufacture, packaging, testing, failure analysis, etc. This is a unique workshop intended specifically for researchers, test engineers, manufacturers, suppliers and all technologists who are concerned with designing, fabricating, specifying or utilizing various types of high voltage equipment whether it be used in airborne, marine or terrestrial environments.

This one-day workshop will be conducted on Friday, May 30th, in Working Sessions with Discussion Periods scheduled throughout the program. The sessions, including invited presentations, will be based upon, but not limited to, the following topics:

- High Voltage Electronics
- High Voltage Power Sources
- Insulation Materials Selection
- Insulation Thermal Aging
- High Gradient Structures
- Partial Discharge Testing
- High Voltage Energy Storage
- High Voltage Diagnostics
- High Voltage Analytical Methods
- High Frequency Breakdown
- Breakdown Processes
- Insulation in Low Pressure Environments

Abstracts are invited for oral presentations. Student contributions (with professor's endorsement) are encouraged. The focus of the abstracts should be on the high voltage aspects of the work with an emphasis on applications of high voltage technology. Abstracts that do not fit the program will be considered for a High Voltage Workshop poster session or for a Power Modulator session. The abstracts for all accepted presentations will be published in the Conference Proceedings (no papers required). A maximum of a four-page paper may be contributed, at the author's discretion. Selected presentations may be recommended to the DEIS publications' Editors as a potential future technical article. A workshop-like atmosphere will be encouraged at all times. Information exchange regarding earlier presentations or related work-in-progress is encouraged during the discussion periods, subject to the discretion of the session chair.

Abstracts for the 2008 IEEE International Power Modulator Conference should be submitted by **January 15, 2008** at **www.cavs.msstate.edu/pmc2008**. This conference website provides submission instructions, abstract template, and other information for both Power Modulator sessions and the High Voltage Workshop.