

1st Announcement

# ICOPS/SOFE 2009

36th International Conference on Plasma Science  
and 23rd Symposium on Fusion Engineering

May 31 – June 5, 2009

Omni Hotel, San Diego, California USA



Abstract Submission	January 9, 2009
Student Travel Grant Applications	February 27, 2009
Notice of Abstract Acceptance	March 13, 2009
Hotel Booking	March 27, 2009
Advanced Registration (Reduced Fee)	May 1, 2009
Mini-Course Registration	May 1, 2009

Conference website:  
<http://cer.ucsd.edu/icopssofe09>

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Center for  
Energy Research



## INTERNATIONAL CONFERENCE OF PLASMA SCIENCE (ICOPS)

The International Conference on Plasma Science (ICOPS) is an annual meeting coordinated by the Plasma Science and Application Committee (PSAC) of the IEEE Nuclear & Plasma Sciences Society. ICOPS 2009 will feature an exciting technical program with reports from around the globe about new and innovative developments in the field of plasma science and engineering. Leading researchers will gather to explore basic plasma physics, high-energy-density-plasmas, inertial confinement fusion, magnetic fusion, plasma diagnostics, pulsed power plasmas, microwave generation, lighting, micro- and nano- applications of plasmas, medical applications and plasma processing. Plenary sessions will highlight progress in major areas, and will be accompanied a range of contributed reports on both fundamental and applied studies. The conference also attracts a wide range of commercial exhibits, and supports short courses and satellite meetings on related areas.

**ICOPS 2009 will offer a balanced program of technical presentations spanning a range of topics to include:**

- Basic Processes in Fully and Partially Ionized Plasmas
- Microwave Generation and Plasma Interaction
- Charged Particle Beams and Sources
- High Energy Density Plasmas and their Interactions
- Industrial, Commercial, and Medical Applications of Plasmas
- Plasma Diagnostics
- Pulsed Power and Other Plasma Applications

**There will also be a mini-course on the influence of Target Fabrication on High-Energy-Density-Physics Experiments to include:**

- Low density target design
- High performance implosion targets
- Shock propagation
- Energetic e-generation / propagation in plasmas

## SYMPOSIUM ON FUSION ENGINEERING (SOFE)

The Symposium on Fusion Engineering - SOFE - is a biennial event coordinated by the Fusion Technology Committee (FTC) of the IEEE Nuclear & Plasma Sciences Society. The Symposium covers engineering and scientific advances in both inertial confinement and magnetic confinement fusion, with attendees from major fusion energy research centers worldwide. Plenary sessions typically report on the status of the program and results from the major experimental facilities while the technical sessions cover a wide range of technologies associated with fusion research including reactor design, plasma facing components, plasma material interactions, plasma diagnostics, safety and environment, plasma control systems, magnets and electromagnetic systems, and more. The conference is often accompanied by commercial exhibits and short courses on fusion topical areas. The SOFE conference proceedings are considered to be a principal source of technical data in this field.

**Major topical areas include:**

- Experimental devices
- New device design and reactor studies
- Divertors and plasma materials interactions
- Targets, chambers, vacuum vessels, blankets, and shields
- Diagnostics, data acquisition, and plasma control systems
- Safety and environmental engineering
- Materials assembly, fabrication, and maintenance
- Heating and current drive
- Plasma Fueling, pumping, and tritium handling systems
- IFE drivers and related technologies
- Power systems
- Magnet engineering
- Electromagnetics and electromechanics