

SOFE 2015 Call for Papers

Co-located with

PULSED
POWER
CONFERENCE

General Chair – Mark Crawford, LANL
Technical Chair – David Wetz, UT-Arlington
PPC2015@ieee.org

Registration Begins
Abstract Submission Begins
Abstract Submission Ends
Early Registration Ends

November 10, 2014
November 10, 2014
January 31, 2015
April 29, 2015

Conference Website: <http://ece.unm.edu/ppcsofe15/>
Short Course May 31, 2015

General Chair – JP Allain, University of Illinois

Technical Chair – Mark Tillack, UC-San Diego

SOFE2015@ieee.org

Austin, Texas
May 31–June 4, 2015



Symposium on Fusion Engineering

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

Short Course: Fundamentals of Plasma Material Interactions and Plasma Edge Physics in Magnetic Fusion

The aim of the short course is to provide a comprehensive introduction of plasma-material interactions and plasma edge physics with an emphasis on magnetic fusion plasmas. This short course will address rising interest in the area of plasma-material interactions and the plasma edge and will in part introduce the breadth and depth of the subject in areas including: plasma-surface interactions in fusion edge plasmas, plasma edge phenomena and advanced divertors where the plasma/material interface plays a crucial role in materials performance and behavior.

Organizers: Prof. Davide Curreli, Prof. Daniel Andruczyk, University of Illinois at Urbana-Champaign

