

Sandia Engaged in Upcoming Combustion Symposium and Workshops

Reviewers:

Chris Shaddix: Approved April 8
Rob Barlow: Approved March 28
Nils Hansen: Approved April 8

A number of CRF staff members are active in organizing the [35th International Symposium on Combustion](#). This biennial event, which brings together more than 1,000 scientists, engineers, and others from around the world to explore the latest developments in combustion science, will be held from August 3–8, 2014, at the Hyatt Regency Embarcadero in San Francisco, California.

Sandia's Christopher Shaddix, Jackie Chen, and Melissa Betz are working with other local combustion researchers to organize this event.

In addition, Sandians are helping plan several related workshops held either before or during the main symposium. To meet the goal of fostering collaborative research, workshop organizers encourage the participation of specialists actively working in the focus area. Some details on these workshops follow:

[TNF12: Twelfth International Workshop on Measurement and Computation of Turbulent Flames](#)

July 31–August 2, 2014

Hilton Hotel in Pleasanton, California

Sandia organizer: Robert Barlow

This workshop series facilitates collaboration among experimental and computational researchers to better understand turbulent combustion phenomena in gaseous flames with well-defined boundary conditions and to accelerate the development of predictive models. Topics for TNF12 include turbulence-chemistry interaction in partially premixed and stratified flames, utilization of temporally resolved data, and quality assessment in LES.

[ISF: 2nd International Sooting Flame Workshop](#)

August 2–3, 2014

Hilton Hotel in Pleasanton, California

Sandia organizer: Christopher Shaddix

Experimenters and modelers will come together at this workshop to help identify common research priorities in the development and validation of accurate, predictive models of flames with soot and coordinate research programs to address these priorities. The forum is building a database of selected flames with soot that are suitable for model development and validation, as well as relevant to practical application.

[CBC: International Workshop on Measurement and Simulation of Coal and Biomass Conversion](#)

August 5, 2014

Hyatt Regency Embarcadero, San Francisco, California

Sandia organizer: Christopher Shaddix

The inaugural CBC workshop will explore numeric and experimental approaches that can lead to cleaner and more efficient conversion of biomass and coal during gasification or combustion. Participants will

focus on building fundamental science through laboratory experiments, which in turn provide reliable data that can advance modeling.

2nd International Flame Chemistry Workshop

August 2–3, 2014

Hyatt Regency Embarcadero, San Francisco, California

Sandia organizer: Nils Hansen

Experts in combustion chemistry, flames, kinetic modeling, and diagnostics will work to identify gaps in predictive high-pressure flame chemistry and establish a framework of collaborative research to fill those gaps. Ultimately, the research will help advance fundamental understanding of ignition and flame chemistry at extreme conditions to achieve accurate control of ignition, heat release rate, combustion instability, flame flashback, and emissions.