



## Report to the Combustion Institute on the Activities of the Western States Section of the Combustion Institute during the Period 2014-2016

June 30, 2016

The Western States Section of the Combustion Institute (WSSCI) is composed of those members of the Combustion Institute who reside in the Western States of the United States and in the Pacific Territories of the United States. Executive authority of the Section is vested in its Executive Committee.

### Leadership

The 2013-2014 Executive Committee is composed of the following members:

Chair: Anthony Marchese, Colorado State University

Vice-Chair: Fletcher Miller, San Diego State University

Treasurer: Marcus Day\*, Lawrence Berkeley Laboratory

Secretary: Guillaume Blanquart, CalTech

Program Chair: David O. Lignell, Brigham Young University.

Information Chair: Saxena Priyank, Solar Turbines

Past Chair: Kalyanasundaram (Kal) Seshadri, University of California at San Diego

CI Representative: Derek Dunn-Rankin, University of California at Irvine

US Section Rep: Jerry Cole, Hydrogen Ventures

US Section Rep: Chris Shaddix, Sandia National Laboratories

Note: Treasurer Marcus Day will be stepping down this summer after more than 10 years of service at that position. The WSSCI executive committee in their meeting on March 20, 2016 nominated Erika Belmont of the University of Wyoming for the role of Treasurer and she accepted. The members of the WSSCI will be asked to vote on the appointment at our Business meeting that will be held in Spring 2017 at the 10th US National Meeting.

The WSSCI Members at Large are as follows:

Erica Belmont	University of Wyoming
David L. Blunck	Oregon State University, Corvallis
J. Y. Chen	University of California at Berkeley
John Daily	University of Colorado at Boulder
Robert Dibble	University of California at Berkeley
Thomas Fletcher	Brigham Young University
Chris Hagen	Oregon State University
John Hewson	Sandia National Laboratories

Matthias Ihme	Stanford University
Heejung Jung	University of California at Riverside
Ann Karagozian	University of California at Los Angeles
Vincent McDonell	University of California at Irvine
Larry Muzio	Fossil Energy Research Corporation
Bill Pitz	Lawrence Livermore National Laboratory
Jason Porter	Colorado School of Mines
Paul Ronney	University of Southern California
Antonio Sanchez	University of California San Diego
Ben Shaw	University of California at Davis
Mark Sheldon	Sheldon Research and Consulting
James Sutherland	University of Utah

### **Active Membership**

As of June 30, 2016, 235 active members in the WSSCI as reported by the Combustion Institute office.

### **Board Meetings**

Several board meetings were held over the last two years including the following: Summer 2014 (35<sup>th</sup> International Symposium, San Francisco, CA); Spring 2015 (US National Meeting, Cincinnati, OH); Fall 2015 (Brigham Young University, Provo, UT); and Spring 2016 (University of Washington, Seattle, WA). At the Spring 2015 U.S. National Meeting, a business meeting was held and a vote was taken for the new Executive Committee, including new Chair, Vice Chair, Secretary, and representatives to the USC I Executive Committee.

### **Technical Meetings**

Following the 35<sup>th</sup> International Combustion Symposium at San Francisco, two Technical Meetings were hosted by the WSSCI.

The 2015 Fall Technical Meeting of WSSCI was held at Brigham Young University, in Provo, UT on October 5-6, 2015. David Lignell (BYU Associate Professor and WSSCI Program Chair) took the key role organizing in this meeting. There were three invited presentations, (1) "Exascale Computing and Coal-Fired Power Generation", by Philip J. Smith (University of Utah), (2) "Transport-chemistry interactions in simple and complex flows: reassessing assumptions, practices, and relevance to applications," by Fokion Egolfopoulos (USC) and (3) "Experiments lead to new insights into wildfire spread," by Mark Finney (USDA Forest Service). Fifty six (56) papers were presented. There were roughly 72 registered participants (including students) at the meeting. A significant fraction of the papers were presented by students. Twenty-five (25) students were recognized for their technical presentations at the meeting and travel awards were given.

The 2016 Spring Technical Meeting of WSSCI was held at the University of Washington in Seattle, WA, on March 21-25, 2016. Jim Hermanson (UW Professor) and John Kramlich (UW Professor) took the key role in organizing this meeting. There were three invited presentations by Jackie Chen (Sandia National Laboratory), Rick Gustafson (University of Washington) and Timothy Larson (University of Washington). There were 75 registered participants, which included 36 students. A total of 51 papers

were presented, the majority of which were presented by students. Twenty five (25) students were recognized for their technical presentations at the meeting and travel awards were given.

### **Upcoming Technical Meetings**

The 36<sup>th</sup> International Symposium on Combustion will be held in August 2016 in Seoul, Korea. We will provide financial support to students (up to \$750) from the WSSCI who will present papers (oral and poster) at the 35th International Symposium on Combustion. Currently, there are 20 registered students who are confirmed as oral presenters for the symposium. The number of student poster presenters is unknown at this time. We pride ourselves in our ability to provide financial assistance in the form of travel awards for those students presenting a paper at Combustion Institute meetings, whether sectional meetings, US national meetings, or International Symposia. We actively encourage students to present papers at our technical meetings.

We will hold the Fall 2017 meeting of WSSCI the University of Wyoming in Laramie, WY with Erika Belmont as the local host. We are planning to hold the Spring 2018 meeting at Oregon State University (Cascades Campus) in Bend, OR with Chris Hagen as the local host.

Please check our web site ([www.wssci.us](http://www.wssci.us)) for more information about Western States Section meetings.

Sincerely,



Anthony J. Marchese, Ph.D.  
Chair, Western States Section of the Combustion Institute  
Professor of Mechanical Engineering  
Associate Dean for Academic Affairs  
College of Engineering  
Colorado State University  
<http://www.engr.colostate.edu/~marchese>