



The Combustion Institute

5001 Baum Boulevard, Suite 644

Pittsburgh, Pennsylvania 15213-1851 USA

Ph: (412) 687-1366

Fax: (412) 687-0340

Office@CombustionInstitute.org

CombustionInstitute.org

2018 Japan Section of The Combustion Institute Report

Section Website: <http://www.combustionsociety.jp/eng/index.html>

Section Chair: Osamu Fujita

List section officers and board members with titles:

President, Osamu Fujita, Prof. Hokkaido University
Vice President, Mitsuhiro Tsue, Prof. University of Tokyo
Vice President, Toshiro Fujimori, Dr. IHI
Executive Director, Kaoru Maruta, Prof. Tohoku University
35 Board of Directors

Members of the Japan Section:

| | |
|---------------------|-----|
| Active Members | 981 |
| Non-Student Members | 757 |
| Student Members | 143 |
| Corporate Members | 80 |

Section meetings and workshops since 2016 with date and attendance information:

Japanese Combustion Symposium

The 54th Symposium was held in Sendai on November 23-25, 2016 with 640 participants and 257 presentations including 1 plenary lecture and 1 invited lecture and 3 keynote lectures. The organization committee was chaired by Prof. H. Kobayashi, Tohoku University. The 55th Symposium was held in Toyama on November 13-15, 2017 with 510 participants and 260 presentations including 1 plenary lecture, 1 invited lecture and 3 keynote lectures. The organization committee was chaired by Prof. A. Tezaki, University of Toyama.

An announcement of the symposium is noticed in the website of the Combustion Institute to enhance participations from overseas.

List other activities (e.g. section journals, projects, working groups, school for students, etc.)

Review of Advanced Combustion Technologies

Recent trend in combustion science and technology was investigated and reported to the industrial sector for contribution to the improvement of their own combustion technologies. The latest 160 papers related to combustion were reviewed by experts in various fields and summaries were reported to 25 industrial companies each year at the University of Tokyo on March 7, 2017, and March 6, 2018.

Lecture Series on Combustion Fundamentals and its Applications

Lectures are given to industrial combustion engineers and university students. One series of lecture is completed in two years consisting of 6 all-day lectures which include 18 lectures in total from various aspects of combustion and applications. An all-day lecture is given every four months. There were 60 to 80 participants for each all-day lecture.

Working Group Activities

CSJ promotes working group activities by CSJ members to promote research of combustion related topics. One working group activities have been completed and one activity is underway.

- (1) Laser ignition (completed)
- (2) Future vision of combustion research (underway)

Summer School

The school has three objectives: to be an eye-opener to engineers and students to both cutting-edge and fundamental research, encourage academic discussions, and cultivate personal exchange. Every school has about 5 lecturers who give current research topics. The 2016 Summer School was held at Biwa-lake seminar house in Shiga on September 1-2 with 52 participants, and the 2017 Summer School was held at Yugawara in Kanagawa on August 31 to September 1 with 39 participants from industries, academia, research organizations, and universities.

Journal

CSJ publishes a high-quarterly journal, Journal of the Combustion Society of Japan. This journal has original and tutorial papers. Over last two years CSJ published journal No.183-187 of Vol.58 in 2016, and No.188-191 of Vol.59 in 2017.

New Project on Combustion Analysis Platform

CSJ has started a new project to develop a combustion analysis platform for numerical simulation of reacting flows. Three fields of topics, gas phase combustion, spray combustion, pulverized coal combustion, were included in the project. The project was proceeded under the collaboration between industries and academics in 2016 and 2017.

The next project is under preparation to start in 2019.

Asia-Pacific Conference on Combustion (ASPACC)

11th ASPACC was held in Sydney, Australia on December 10-14, 2017. From Japan 58 delegates were participated and 34 papers were presented in the conference. 12th ASPACC will be held in Fukuoka, Japan on July 1-5, 2019. Information on the 12th ASPACC is available in the CSJ website (<http://www.combustionsociety.jp/index.html>).

List awards given by section with details:

CSJ annually awards Best paper award, Young investigator award, Distinguished technology award, Distinguished service award, and International award. All awardees except for International award are selected from CSJ memberships. International award is presented to a distinguished combustion researcher living other than Japan who has given significant contributions to Japanese combustion community. List of awardees are available in the CSJ website (<http://www.combustionsociety.jp/index.html>).