



**Biennial report from  
the Italian Section of the Combustion Institute  
2014-2016**

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*Mario Commodo acts as secretary.*

*Fabrizio Scala acts as treasurer.*

The Italian Section of the Combustion Institute, ASICI, brings together about 120-130 active academics and industry engineers working on Combustion in Italy.

The Section organizes meetings and other events on a regular basis with the aim of providing an informal forum for discussion among specialists and to stimulate dissemination of scientific and technical knowledge on Combustion.

To apply for the membership to the Italian Section of the Combustion Institute, registration to the annual meeting of the Section is required. Membership lasts two years. 131 members of the Italian Section are actually registered on the Combustion Institute web-site.

The Section publishes the abstracts of the annual meetings in e-books (Proceedings of the Italian Section of the Combustion Institute, identified by ISBN) and publishes on the Section web-page ([www.combustion-institute.it](http://www.combustion-institute.it)) the extended abstracts of the papers presented at the conferences (each manuscript is identified by a DOI number).

In 2014 the XXXVII Meeting was held in Pisa, 23-24 April, at Hotel San Ranieri. This was a Joint Meeting of the French and Italian Sections of IFRF and Combustion Institute. 115 delegates attended the conference and 97 papers were presented. Attendees were mostly from France and Italy, but the UK, Romania, and the Czech Republic were also represented. The conference was organized with brief presentations of the



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papers followed by a poster session of the presented works. Four invited keynote lectures (Denis Veynante, EM2C, CNRS, Paris; Osvalda Senneca, IRC-CNR, Naples; Alessandro Saponaro, Ansaldo, Gioia del Colle; and Frédérique Battin-Leclerc, LRGP, Nancy) preceded the paper presentation sessions. During the meeting an “Energy in HORIZON 2020” workshop was held, chaired by APRE.

In 2015 the XXXVIII Meeting was held in Lecce, 20-23 September, at Università del Salento. 71 delegates attended the conference and 59 papers were presented. The conference was organized with brief presentations of the papers followed by a poster session of the presented works. One plenary lecture (Ömer L. Gülder, University of Toronto, Canada) and three keynote lectures (Roberta Vecchi, Università degli Studi di Milano; Bianca Maria Vaglieco, Istituto Motori, CNR; and David Chiaramonti, Università di Firenze) preceded the paper presentation sessions. During the meeting a round table on Biofuels for Road and Aviation was organized and chaired by David Chiaramonti, Università di Firenze.

In 2016 the XXXIX Meeting will be held in Naples, 4-6 July. About 110-120 delegates are expected to participate and 52 oral presentations + 21 work-in-progress posters will be presented. Three plenary lectures (Umberto Arena, Second University of Naples; Alessandra Beretta, Politecnico di Milano; and Wolter Prins, Ghent University, Belgium) will precede the paper presentation sessions. During the meeting two round tables on Biofuels and Combustion Technologies for Flexible Energy Systems (chaired by Patrizio Massoli, Istituto Motori, CNR) and on Future Priorities in Combustion Safety (chaired by Almerinda Di Benedetto, University of Naples; and Ernesto Salzano, University of Bologna) will be organized.

The Second International Combustion Institute Summer School 2ICISS was held on the Isola di Procida, Napoli, Italy in the week May 31 – June 6, 2015. The school was organized by the Italian Section of the Combustion Institute, the Università degli Studi di Napoli Federico II and the Istituto di Ricerche sulla Combustione of CNR. The objective of the school was to furnish to the students high quality lecturers, to show advanced experimental facilities on combustion, and to create time for networking among students. The school was publicized on the Combustion Institute website, on the website of the Italian Section of the Combustion Institute and on a dedicated Facebook page. The school was organized in morning lessons on Combustion Theory and Chemical Kinetics and afternoon lessons on Reactive Flow Modelling and Pollutant Formation and Diagnostics. Extensive use of combustion software for exercises was done. A lab tour to the combustion facilities in Napoli was organized. It has been a one-week full immersion school. The four courses were delivered by: Prof. Norbert Peters (RWTH Aachen, Germany) - Turbulent combustion (10 hours) - Prof. Peter Glarborg (Technical University of Denmark) - Chemical kinetics (10 hours) - Prof. Fabrizio Bisetti (King Abdullah University of Science and Technology, Saudi Arabia) - Reactive Flow Modelling (6 hours) - Prof. Andrea D’Anna (Università degli Studi di Napoli Federico II, Italy) - Pollutant Formation and Diagnostics (6 hours). 102 students from 20 countries attended the school.

In addition to the national meetings, the Italian Section was involved in the organization of the Mediterranean Combustion Symposium (MCS) meeting in Rhodes, 7-11 June, 2015, and is involved in the organization of the next one in Naples, September, 2017.

Members of the Section were also active during the International Symposia with a significant number of oral presentations and posters presented at the meetings.

Two Italian Section Members (Mariano Sirignano and Andrea D’Anna, University of Naples) were awarded the Silver Combustion Medal at the 35<sup>th</sup> Symposium in San Francisco, for an outstanding paper presented at the previous symposium.



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One Italian student, Carmela Russo (Istituto di Ricerche sulla Combustione, CNR), was awarded the Bernard Lewis Fellowship at the 35<sup>th</sup> Symposium in San Francisco.

Raffaele Ragucci, a former chairman of the section, is member of the Board of Directors of the Combustion Institute.

During 2014-2016 the Section has held three Board meetings during the annual conferences. Members of the Board exchange information on the Section activity and the organization on regular basis.

Napoli, June 30, 2016

Fabrizio Scala

Chairman of the Board