



**Biennial report from  
the Italian Section of the Combustion Institute  
2018-2020**

***Board of the Italian Section of the Combustion Institute***

Fabrizio Scala, Università Federico II di Napoli (chairman)

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Mario Commodo, Istituto di Ricerche sulla Combustione, CNR, Napoli

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Giovanna Ruoppolo, Istituto di Ricerche sulla Combustione, CNR, Napoli

Nunzio Russo, Politecnico di Torino

*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. 90 active members of the Italian Section are registered on the International Combustion Institute website.

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 Italian Section webpage ([www.combustion-institute.it](http://www.combustion-institute.it)) the extended abstracts of the papers presented at the conferences (each manuscript is usually identified by a DOI number).

During 2018-2020 the Section has held two Board meetings during the annual conferences. Members of the Board exchange information on the Section activity and on the organization on regular basis.



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In 2018 the Joint Meeting of the German and Italian Sections of the Combustion Institute was organized in Sorrento, 23-26 May. The German and Italian Joint Meeting was a resounding success and attracted 152 delegates to Teatro Tasso in Sorrento. Attendees were mostly from Germany and Italy, but UK, USA, China, Spain, Austria, Brazil, Belgium, Switzerland and Saudi Arabia were also represented. 76 oral presentations + 27 posters were presented. Three plenary lectures (Lasse Rosendahl, Aalborg University, Denmark; Ioannis Mantzaras, PSI, Switzerland; and Mara de Joannon, IRC, Italy) preceded the paper presentation sessions. 4 awards were given to the best young researcher presentations. The best papers presented at the conference were collected in a special issue of the international journal Combustion Science and Technology (Vol. 9, pp. 1473-1741, 2019).

In 2019 the 42<sup>nd</sup> Section Meeting was held in Ravenna, 9-11 September. 61 delegates participated at the meeting and 36 oral presentations + 9 work-in-progress posters were presented. Three plenary lectures (Alberto Gomez-Barea, University of Sevilla, Spain; Valerio Cozzani, University of Bologna; and Mauro Valorani, University La Sapienza of Roma) preceded the paper presentation sessions. During the meeting one round table on Recent Trends in Industrial Combustion (chaired by Massimiliano Fantuzzi, Tenova SpA) was organized. 2 awards were given to the best young researcher presentations.

In 2020 the Joint Meeting of the Polish and Italian Sections of the Combustion Institute will be held in Ischia, 4-7 October (the meeting was originally scheduled for 7-10 June, but was postponed due to the COVID-19 disease). Three plenary lectures are expected (Viktor Scherer, Ruhr-Universität Bochum, Germany; Debora Fino, Polytechnic of Turin; and Aneta Magdziarz, AGH University of Science and Technology, Poland).

In addition to the national meetings, the Italian Section was involved in the organization of the 1<sup>st</sup> Int. Conf. on Smart Energy Carriers in Naples, 21-23 January 2019, and of the 11th Mediterranean Combustion Symposium in Tenerife, Spain, 16-20 June 2019.

The Italian Section is organizing the 10<sup>th</sup> European Combustion Meeting, which will be held in Naples on 13-16 April 2021.

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

The 2020 Silver Combustion Medal was assigned to the 2019 Distinguished Paper: "Insights into incipient soot formation by atomic force microscopy" by F. Schulz, M. Commodo, K. Kaiser, G. De Falco, P. Minutolo, G. Meyer, A. D'Anna, L. Gross.

Main service activities related to combustion of the Italian Section members:

Andrea D'Anna (University Federico II of Naples) was designated in 2018 as Fellow of the Combustion Institute, *for his innovative research in combustion science, especially in the area of soot formation.*

Tiziano Faravelli (Politecnico di Milano) was designated in 2019 as Fellow of the Combustion Institute, *for breakthrough research on the numerical modeling of chemically reacting flows with detailed chemistry.* He is Associate Editor of Combustion and Flame.



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Eliseo Ranzi (Politecnico di Milano) was designated in 2019 as Fellow of the Combustion Institute, *for ground breaking contributions in modeling combustion kinetics with a focus on lumping approaches for pyrolysis and low-temperature chemistry*. He is member of the Editorial Advisory Board of Energy & Fuels.

Mara De Joannon (Istituto di Ricerche sulla Combustione, CNR) was designated in 2020 as Fellow of the Combustion Institute, *for pioneering and outstanding contributions to the establishment of concepts and knowledge of innovative diluted combustion technologies*. She is member of the Governance Policy Committee. She is member of the Editorial Board of Proceedings of the Combustion Institute.

Anna Ciajolo (Istituto di Ricerche sulla Combustione, CNR) was designated in 2020 as Fellow of the Combustion Institute, *for innovative research in the characterization of condensed phases and soot particles in flames*.

Alessio Frassoldati (Politecnico di Milano) was recipient in 2020 of the Research Excellence Award. He is member of the Silver Combustion Medal Committee. He was co-chair of the Work-in-Progress Poster (WIPP) session at the 37th International Symposium on Combustion.

Raffaele Ragucci (Istituto di Ricerche sulla Combustione, CNR) was member of the Combustion Institute-Summer Schools Committee until June 2019.

Mariano Sirignano (University Federico II of Naples) is member of the Early Career Advisory Committee.

Osvalda Senneca (Istituto di Ricerche sulla Combustione, CNR) is co-chair of the Solid Fuel Combustion colloquium at the 37<sup>th</sup> and 38<sup>th</sup> International Symposium on Combustion.

Fabrizio Scala (University Federico II of Naples) is Associate Editor of Fuel Processing Technology.

Piero Salatino (University Federico II of Naples) is member of the Editorial Board of Fuel Processing Technology.

Bianca Maria Vaglieco (Istituto Motori, CNR) is member of the International Editorial Board of Fuel.

Gaetano Continillo (Università del Sannio) is member of the Editorial Board of Combustion Theory and Modelling.

Napoli, June 11, 2020

Fabrizio Scala

Chairman of the Board