



**The Combustion Institute**

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**2018 Netherland Section of The Combustion Institute Report**

Section Website: <http://www.combustioninstitute.nl>

Section Chair: Rob Bastiaans

List section officers and board members with titles:

Chairman  
Dr. R.J.M. Bastiaans  
Secretary  
Prof. Dr. D.J.E.M. Roekaerts  
Treasurer  
Dr. J.B.W. Kok

Members of the Netherland Section:

Active Members	87
Non-Student Members	82
Student Members	05

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

Combura 2018, October 10 2018

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

No other activities

List awards given by section with details:

The awards for the best posters at the 2017 Combura symposium were as follows:

First prize: Marie-Bernardette Raida et al, Eindhoven University of Technology

Poster title: Further development of the Heat Flux Method: extended pressure range and fuel variety

Second prize: Johan Steimes et al, Delft University of Technology

Poster title: NO<sub>x</sub> and CO emissions in gas turbines operating at part load with Flue Gas Recirculation

Third prize: Ahmed Elkholy et al, Eindhoven University of Technology

Poster title: The effect of nanosecond pulsed plasma discharge on burning velocity of Methane-Air flame using a Novel DBD microplasma reactor

Other Information:

In the past two years the Dutch Section of the Combustion Institute contributed to the organisation of the COMBURA Symposium in at least three ways: by active participation in the organising committee, by awarding a prize for the three best posters presented at the symposium and by numerous oral and poster contributions by the members.

The Combura symposium is the major annual event for exchange of information on combustion research and its practical applications, in the Netherlands. It is organised by the Nederlandse Vereniging voor Vlamonderzoek NVV (Netherlands Association for Flame Research) and is sponsored by KIVI, section Energy and Heat Technology. The program consists of invited and contributed oral presentations and a poster session. The Symposia in 2016 and 2017 had about 70 persons each.

In 2016 Prof. Dr. André Faaij, professor in Energy System Analysis at Rijksuniversiteit Groningen and academic director of Energy Academy Europe, gave a keynote lecture titled "Accelerating the energy transition to meet the 1.5°C GMT target" and Professor Terese Løvås, who is professor in Thermodynamics and Combustion at the Norwegian University of Science and Technology (NTNU) in Trondheim Norway, since 2009, gave a keynote lecture titled: "Development and application of multi scale modelling of solid fuel thermal conversion".

The theme of Combura 2017 was 'The Future of Combustion', and even more than the previous symposium was focusing on the new role of combustion within the rapidly changing energy landscape. The conference started with 3 keynote lectures on the following topics:

Future energy systems, Industrial combustion perspectives, Energy Storage.

Experts in the field of the energy transition, energy storage and leaders in industry shared their perspective on the future of combustion and universities, research institutes, and industrial companies in the Netherlands and surrounding countries joined in the discussions and presented their work in the technical sessions and the poster session.

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The Dutch Section of the Combustion Institute has about 80 members. They have been informed by e-mail on forthcoming conferences and lectures and possibly interesting vacancies.

In the past half-year the officers of the Dutch Section in collaboration with other academic staff at Dutch universities working on combustion initiated a systematic discussion on the future of academic combustion research in the Netherlands. It was motivated by the need to face the uncertainties caused by the perspective of an 'energy transition' away from the use of fossil fuel and to clarify and demonstrate the clear need for combustion research.

Our aim is to develop both a general vision on the importance of combustion technology and all associated potential methods and a particular vision on the possible use of hydrogen and all associated technologies.