

35th International SAOT Workshop: Combustion Diagnostics

23.9.24 – 24.9.24

Fraunhofer IISB, Schottkystraße 10, 91058 Erlangen

Scope

This workshop aims to provide a comprehensive understanding of **advanced optical techniques** and **methodologies** used in the field of combustion.

International experts present the latest diagnostic developments and applications essential for the analysis and optimization of different combustion process steps. A key focus will be on **laser-based diagnostics**, which have become indispensable in providing non-intrusive, highly accurate measurements of various combustion parameters. These cover methods such as **Laser-Induced Fluorescence (LIF)**, **Raman and Rayleigh scattering**, **Coherent Anti-Stokes Raman scattering (CARS)**, **Absorption Spectroscopy**, **Particle Image Velocimetry (PIV)** and even some **X-ray techniques**. These diagnostic principles are coupled/extended with dedicated developments such as **tomography**, **high-speed data acquisition**, **frequency combs** or **structured illumination** to enable quantitative results from extremely challenging environments such as reacting flows or flames.

This workshop will serve as a platform for knowledge exchange and favoring possible collaborations, with a format of lectures and extended discussions.

Confirmed Speakers

- Dr. Edouard Berrocal (Lund University, Sweden)
- Prof. Isaac Boxx (RWTH Aachen, Germany)
- Prof. Chloe Dedic (University of Virginia, USA)
- Prof. Pascale Desgroux (Université de Lille, France)
- Prof. Andreas Dreizler (Technische Universität Darmstadt, Germany)
- Dr. Samuel Grauer (Pennsylvania State University, USA)
- Prof. Gaetano Magnotti (KAUST, Saudi Arabia)
- Dr. Patrizia Minutolo (CNR-STEMS Naples, Italy)
- Prof. Greg Rieker (University of Colorado Boulder, USA)
- Dr. Alexey Sepman (RISE AB Pitea, Sweden)
- Prof. Lars Zigan (Universität der Bundeswehr München, Germany)

Registration:

All SAOT members - **PIs, AIs, Ambassadors, mentors** and registered **doctoral candidates** are invited to attend free of charge.

If you are interested in participating in the workshop, please **register** before **23.8.24** using the online form:
https://www.saot.fau.de/events_saot/upcoming-events/35th_workshop/



Registration

Contact:

If you need any further assistance, please do not hesitate to contact us via **saot-administration@fau.de**