



Workshop on Turbulent Combustion of Sprays



9th International Workshop on the Turbulent Combustion of Sprays (TCS-9)

June 1, 2025, Corfu, Greece, 8:30 - 16:30

Call for posters

We are pleased to announce the 9th International Workshop on the Turbulent Combustion of Sprays (TCS-9). In line with the previous editions, the aim of this workshop is to stimulate progress in the understanding of turbulent spray combustion by organizing focused discussions on open problems and promising new initiatives and collaborations in this area. A long-term objective is to advance capabilities to model turbulent spray flows, both reacting and non-reacting. The intention is to have interactive discussion between experts and young researchers and between modelers and experimentalists.

TCS-9 will focus on ammonia as a perspective carbon-free fuel. The relatively poor combustion characteristics with respect to slow flame propagation and long ignition delay times as well as the high latent heat of vaporization make ammonia an interesting scope for the workshop.

Another important topic of interest is the atomization and evaporation of multi-component fuels, which are of extraordinary practical importance. The workshop aims to address specific phenomena related to these topics such as flash-assisted atomization, preferential evaporation, and instabilities as related to miscible and immiscible blends.

TCS-9 will also continue the tradition of focusing on a number of benchmark validation cases for numerical simulations. The website <http://www.tcs-workshop.org/> will provide the latest information.

As the major goal of the workshop is open discussion, the TCS workshop series will also continue the tradition of poster presentations. The posters will be in place during the entire workshop and a dedicated time slot guarantees in-depth discussion among the participants. The poster contents need not connect directly to ammonia or the mentioned target cases. Posters on any topic related to the turbulent combustion of sprays are welcomed.

If you intend to present a poster, you are kindly invited to send your **1-page abstract in pdf format by e-mail to Bart.Merci@UGent.be by 15 May 2025**. Accepted abstracts will be made available online on the TCS homepage, unless the corresponding author indicates a preference not to make the abstract publicly available.

We look forward to meeting you in Corfu.

The TCS-9 Organizing Committee.