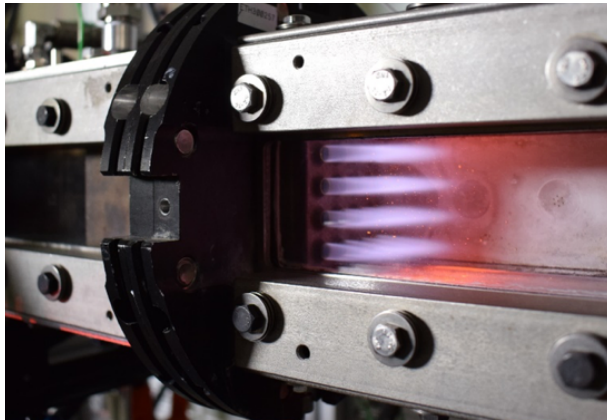


Conference on Combustion Research in Switzerland 2026

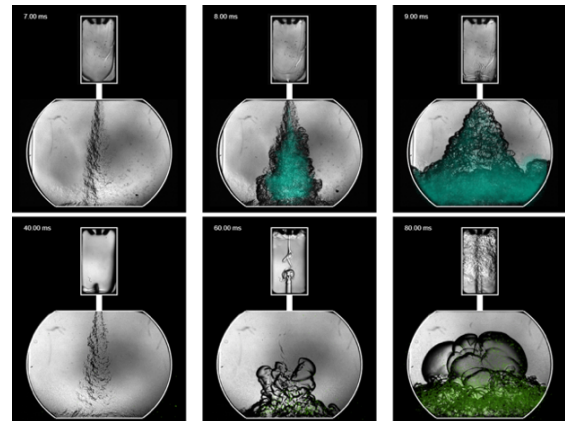
Programme

Date: Thursday, 2nd July 2026
Location: ETH Zürich, Zentrum
Time: 08:45 a.m. to 5:00 p.m.

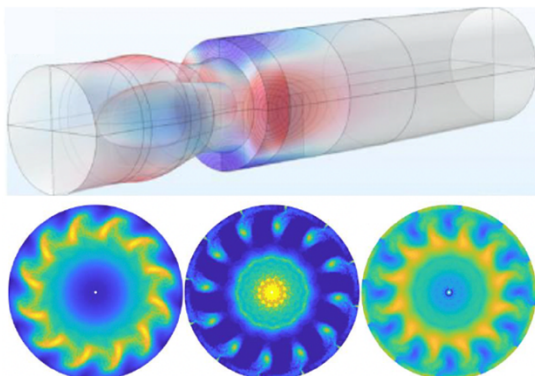
Online registration please click [here](#)



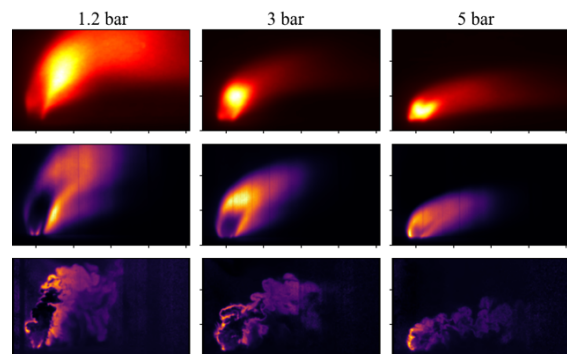
Project on the nonlinear response of lean-premixed multi-jet turbulent hydrogen/natural gas/air flames.
Moon, Strotz, Noiray, CAPS, ETHZ



Optical pre-chamber (OPC) combustion sequences of turbulent jet ignition. Top: methanol/air; bottom: NH₃/air. Initial conditions: approximately 200 °C, 10 bar, and $\lambda \approx 1$.
Balmelli, Herrmann, FHNW



Stability analysis of transverse thermoacoustic modes by means of a coupled analytical-FEM-CFD approach.
Heinzmann, Gopalakrishnan, Wood, Bothien, IEFE, ZHAW & AES



Project on the combustion of Sustainable Aviation Fuels (SAF) in spray in hot vitiated cross-flow configuration.
Vegad, Moon, Noiray, CAPS, ETHZ

Programme

08:45	Registration starts - Networking with Welcome Coffee
09:20	Welcome and opening remarks - Prof. Nicolas Noiray, CAPS Lab, ETHZ
09:25	Optical and thermodynamic investigations of premixed ammonia combustion initiated by a pre-chamber jet Dr. Michelangelo Balmelli, ITFE FHNW
09:45	Numerical study of ammonia-hydrogen evaporation, mixture formation, and combustion dynamics in a spark-ignition engine Sandro Silvestrini, Liebherr Machines Bulle SA
10:05	Hydrogen-methane flame dynamics: experiments and numerical simulations Viken Mouratian, TASC lab, IEFE, ZHAW
10:25	Experimental investigation of turbulent hydrogen flames through optical diagnostics - Dr. Ignacio Trueba Monje, CAPS Lab, ETH Zürich
10:45	Coffee break ■ Networking
11:20	FlexHD» Fully variable valve actuation on a heavy duty engine Dr. Patrik Soltic, Empa
11:40	Mixing-controlled compression ignition combustion of pure methanol in an optical engine test facility - Patrick Albrecht, ITFE FHNW
12:00	Controlling the premixed-peak in hydrogen diffusion combustion Dr. Yuri Wright, Empa
12:20	Lunch
13:40	Effect of matrix burner geometry on the turbulent combustion of lean H₂/Air mixtures - Clara Piccioli, CAPS Lab, ETH Zürich
14:00	Influence of thermo-diffusive effects and pressure on laminar premixed hydrogen flame transfer functions Dr. Harish Gopalakrishnan, TASC lab, IEFE, ZHAW
14:20	Rotation detonation rocket engine development at ARIS Thomas Abegglen, Mattia Rösli & Lennard Voigt
14:40	Relevance of combustion technologies in the research programs of the SFOE and the IEA - Dr. Luca Castiglioni, SFOE
15:00	Coffee break ■ Networking
15:30	Towards the Decarbonization of Aviation Thomas Ripplinger, GE Aerospace
15:50	WinGD's Development concept for CO₂ reduction in large marine engines Dr. Christophe Barro, WinGD
16:10	Advancements in combustion technologies at Ansaldo Energia Dr.-Ing. Luis Tay-Wo-Chong, Ansaldo Energia Switzerland
16:30	Closing remarks Prof. Kai Herrmann, ITFE, FHNW & Prof. Mirko Bothien, IEFE, ZHAW
16:45	End of the Conference
17:00	Apero

ETH Zurich, Zentrum

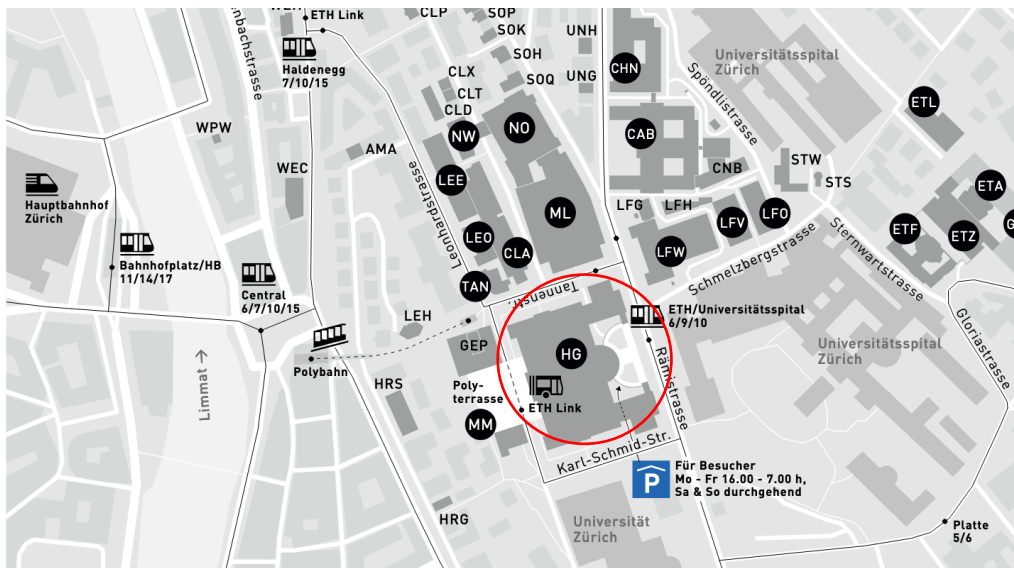
Travelling from Zurich Central Station

From the “Bahnhofstrasse/HB” stop

Tram no. 6 (towards the Zoo) as far as the “ETH/Universitätsspital” stop. Journey time: approx. 6 minutes

From the “Bahnhofstrasse/HB” stop

Tram no. 10 (towards the Airport or Oerlikon station) as far as the “ETH/Universitätsspital” stop. Journey time: approx. 8 minutes



Travelling from Zurich Airport

By tram

From the “Zurich Airport” tram stop

Tram no. 10 (towards Bahnhofplatz/HB) as far as the “ETH/Universitätsspital” stop.

The tram runs every 7 to 15 minutes between 6 o’clock in the morning and 11 o’clock at night.

Journey time: 30 min

By rail

If you wish to travel from the airport to the city center (Central Station), you are recommended to use the S-Bahn or mainline services. The trains depart from the “Zurich Airport” station. Journey time: approx. 10 minutes

You will require a ticket valid for 3 zones.

If you are spending the whole day in Zurich, it is worth buying a day pass (valid for 24 hours). A 24h ticket costs only twice as much as a regular one-way ticket.