

# Hydrogen for Sustainable Mobility Forum

Energy Center-Politecnico di Torino

Tuesday, 11 March 2025

## AGENDA

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- 8:30**      **Registration and Welcome Coffee**
- 9:20**      **Conference Opening & Welcome Remarks**  
Rainer Rothbauer | *Convergent Science GmbH*
- 9:30**      **Heavy Duty H2-ICE Combustion Performance Validation**  
Amer Avdic | *Daimler Truck AG*
- 10:00**     **H2ICE: Predictive Simulations of Hydrogen Injection, Mixing, and Combustion**  
Hong Im | *King Abdullah University of Science and Technology (KAUST)*
- 10:30**     **Benefit of a Dual Mode H2-DI Injector on Example of H2 Engine Bench - Simulation Supported Evaluation** | Olga Ottersbach and Sebastian Sulzer | *Schaeffler Technologies AG & Co. KG*
- 11:00**     **Virtual Development of H2 ICE Retrofit Kits: PFI and DI Solutions**  
Vincenzo Pezza | *Dumarey Automotive Italia S.p.A*
- 11:30**     **Specificities of Hydrogen Fuel for Internal Combustion Engine Application and Development**  
Vincent Giuffrida | *IFP Energies nouvelles*
- 12:00**     **Networking Lunch**
- 13:00**     **Simulating Fuel Blend Mixtures of Hydrogen** | Henry Curran | *University of Galway*
- 13:30**     **Thermodiffusive Hydrogen Flame Instabilities Modelling and Effects on the Combustion Process of a Direct Injection Hydrogen Engine** | Andrea Scalambro | *Politecnico di Torino*
- 14:00**     **Computational Assessment of Greenhouse Gas Emissions in Hydrogen-Powered Internal Combustion Engines for Transportation Applications**  
Josep Gómez Soriano | *Universitat Politècnica de València - CMT*
- 14:30**     **RANS Modeling of Lean Hydrogen Flames Based on G-Equation**  
Hongchao Chu | *RWTH Aachen University*
- 15:00**     **Networking Break**
- 15:30**     **Experimental Investigation of the Mixing and Heat Transfer Associated to Hydrogen Combustion** | Hugo Quintens | *IFP Energies Nouvelle*
- 16:00**     **CFD Analysis of a High-Performance Two-Stroke Opposed Piston Hydrogen Engine**  
Sebastiano Breda | *University of Modena and Reggio Emilia*
- 16:30**     **Numerical Analysis of Chemical Kinetics in Kerosene-Hydrogen Blends**  
Pablo Rouco Pousada | *Delft University of Technology (TU Delft)*
- 17:00**     **CONVERGE for H2: Recent Achievements and What's New in V5**  
Sarah Fehér | *Convergent Science GmbH*
- 17:20**     **Closing Remarks** | Kelly Senecal | *Convergent Science*
- 17:30-18:30**   **Technical Visits**
- 19:30-22:30**   **Networking Dinner** | Museo Nazionale dell'Automobile (MAUTO)