CONVERGE CFD Forum: Solutions for Low-Carbon Transportation

June 11, 2026 · Politecnico di Torino - Energy Center

AGENDA

8:00	**Registration & Welcome Coffee**
8:50	**Conference Opening & Welcome Remarks** Kelly Senecal | *Convergent Science*
9:00	**The Addition of Higher Renewable Hydrocarbon Components and Other Updates to C3Mech** | Henry Curran | *University of Galway*
9:30	**Flame and Wall Quenching Models for SI and Pre Chamber Combustion Engines** Hong G. Im | *King Abdullah University of Science and Technology*
10:00	**A New Thermal Breakup Model for Ammonia Sprays** Felix Leach | *University of Oxford*
10:30	**Development of CFD Models and Best Practices for Internal Combustion Engines Using Traditional and Alternative Fuels** Roberto Torelli | *Argonne National Laboratory.*
11:00	**Networking Brunch**
12:00	**CFD-Based Optimization of a Diesel Combustion System for Medium and Heavy-Duty Applications** | Matteo Luci | *Dumarey Automotive Italia S.p.A*
12:30	**Hydrogen-Fueled Small Loop-Scavenged Two-Stroke Engines: An Integrated CFD-Experimental Methodology |** Matteo Fiaschi | *Convergent Science*
13:00	**Development of a Passive Pre-Chamber Ignition System based on Numerical and Experimental Investigations |** Felix Fellner | *Gamma Technologies*
13:30	**Is PREDICTIVE Modeling in Engine Combustion Achievable?** Yuanjiang Pei | *Aramco Americas*
14:00	**Closing Remarks|** Kelly Senecal | *Convergent Science*
14:10	**Technical Visits |** Dumarey Automotive Italia S.p.A.