CONVERGE Application Workshop: Hydrogen

Wednesday, 15 May 2024 · University of Orléans

AGENDA

9:00	**Registration and Welcome Coffee**
9:50	**Conference Opening & Welcome Remarks** Rainer Rothbauer | *Convergent Science GmbH*
10:00	**Heavy-Duty H2-ICE Combustion System Development Using CONVERGE** Amer Avdic | *Daimler Truck AG*
10:30	**Heat Load Estimations for Durability Assessments of H2 Combustion System** Rafig Babayev | *Volvo Group Trucks Technology*
11:00	**H2 ICE: Virtual Development of a New DI Strategy for Improved Homogenization** Sebastian Sulzer & Olga Ottersbach | *Schaeffler Technologies AG & Co. KG*
11:30	**Challenges, Workarounds and Future Modeling Efforts of H2 ICE Combustion Simulations for Industrial Application |** Michael Blomberg | *FEV Europe GmbH*
12:00	**Networking Lunch**
13:00	**Interaction of Hydrogen Jets and Underlying Charge Motion and Its Impact on Mixture Homogeneity and Combustion |** Lorenz von Roemer | *IAV GmbH*
13:30	**Exploring Hydrogen Low NOx (HYLON) Burner With Large Eddy Simulations** Suresh Nambully | *Convergent Science*
14:00	**Optimizing a Dedicated Heavy-Duty Hydrogen DI Combustion System Using Experimental and Numerical Workflow |** Vincent Giuffrida | *IFP Energies nouvelles*
14:30	**URANS H2 Supersonic Jets |** Kacper Kaczmarczyk | *University of Bath*
15:00	**Networking Break**
15:30	**Hydrogen Injection and Mixing in a Direct Injection Engine** João Mota Ferreira | *University of Orléans*
16:00	**Simulating Hydrogen Storage Tank Filling with CONVERGE** Efe Kinaci | *Convergent Science*
16:30	**Modeling Proton Exchange Membrane (PEM) Fuel Cells in CONVERGE** Marcos Burgo Beiro | *Convergent Science GmbH*
17:00	**Closing Remarks|** Rainer Rothbauer | *Convergent Science GmbH*
17:20	**Technical Tour -** PRISME Laboratory
20:00	**Networking Dinner |** Garden ICE Café