

CONFERENCE SCHEDULE

TUESDAY, 12 MARCH

ROOM ARENAS IV

08:00 Registration

08:20 **WELCOME** | Rainer Rothbauer | *Convergent Science*

08:40 **KEYNOTE** | **MAHLE Jet Ignition as an Advanced Fuel Economy Solution**
Hugh Blaxill | *MAHLE Powertrain, LLC*

09:20 **Numerical Investigation of Natural Gas-Diesel Dual Fuel Combustion**
Lorenzo Bartolucci | *University of Rome Tor Vergata*

09:40 **Towards an Integrated Workflow to Model Liquid Spray Combustion Systems**
Ricardo Novella | *CMT-Motores Térmicos*

10:00 **CFD as Simulative Transparent Engine Diagnostic for GDI Spray Layout Optimization**
Raghavan Lakshmanan | *Delphi Technologies*

10:20 Break

11:00 **ELSA Model Applied to Diesel and Gasoline Sprays Description** | Frederic Ravet | *Renault SAS*

11:20 **Gasoline Spray Model Calibration Under Diesel Engine Like Conditions**
Yohan Blacodon | *Aramco Overseas Company B.V.*

11:40 **Leveraging CONVERGE for Modeling Adjacent Applications in the Automotive Industry**
David Rowinski | *Convergent Science*

12:00 **SPONSOR** | Tecplot, Inc.

12:15 Lunch | *Nixe Palace II*

13:40 **KEYNOTE** | **Progress on Chemical Kinetic Mechanism Development** | Henry Curran | *NUI Galway*

14:20 **Understanding Passive Turbulent Jet Ignition Concept for Automotive Applications**
Josep Gómez Soriano | *CMT-Motores Térmicos*

14:40 **Design Optimization of SI Engine Intake Ports** | Aris Babajimopoulos | *Volvo Car Corporation*

15:00 **An Innovative In-Cylinder Aerodynamics for High Efficiency SI Engines**
Olivier Laget | *IFP Energies nouvelles*

15:20 Break

15:50 **Combustion Stability Study in a Lean SI Optical Engine Using LES**
Jacopo Zempi | *University of Perugia*

16:10 **Large Eddy Simulation of Knocking Combustion**
Max Mally | *RWTH Aachen University-Institute for Combustion Engines*

16:30 **Effect of CNG-H2 Blends and Turbulence on EGR Tolerance in SI Engine**
Prashant Goel | *Politecnico di Torino*

16:50	Modeling and Simulation of Ammonia Combustion in Spark Ignition Engines Amer Avdic <i>Opel</i>
17:10	Technical Achievements in Gas Turbine Engines Scott Drennan <i>Convergent Science</i>
17:30	CLOSING <i>Convergent Science</i>
18:45	NETWORKING Meet in the lobby for bus to Restaurant La Font de Prades–Museo Pablo Español

WEDNESDAY, 13 MARCH

ROOM ARENAS IV

08:00	Registration
08:30	WELCOME <i>Convergent Science</i>
08:40	KEYNOTE Simulation: Crucial Needs in the Automotive Industry Frédéric Ravet <i>Renault SAS</i>
09:20	Accelerating Design Exploration with Rescale's Cloud HPC Simulation Platform Dan Jean <i>Rescale</i>
09:40	Employing Machine Learning & Optimization Algorithms for Piston Bowl Design Alaz Talay <i>BMC Power</i>
10:00	Development of an Approach for the Optimization of Direct Injection CNG Engines Vincenzo Bevilacqua <i>Porsche Engineering Services GmbH</i>
10:20	Break
11:00	A Fast Running Chemistry Solver for Engine Combustion and Emissions Simulations Andrea Matrisciano <i>LOGE AB</i>
11:20	Numerical Assessment of an Innovative Piston Bowl in a Light-duty Diesel Engine Andrea Bianco <i>Powertech Engineering</i>
11:40	Validation Study for New Combustion Concept in Diesel Engine Hyuckmo Kwon <i>Hyundai Motor Co.</i>
12:00	SPONSOR <i>Rescale</i>
12:15	Lunch <i>Nixe Palace II</i>
13:40	Towards Quantitative Prediction of Urea Thermolysis in SCR Systems Chaouki Habchi <i>IFP Energies nouvelles</i>
14:00	On the Behaviour of Urea on a Heated Wall. A Revealed Leidenfrost-like Regime Louis-Marie Malbec <i>IFP Energies nouvelles</i>
14:20	Version 3.0 Updates and What Lies Beyond Keith Richards <i>Convergent Science</i>
14:40	CLOSING Kelly Senecal <i>Convergent Science</i>
15:20	NETWORKING Meet in the lobby for bus to Karting Parcmotor Castellolí