BENGALURU

8:30 REGISTRATION

9:30 **CONVERGE: A General Purpose CFD Solver**
Ashish Joshi, *Convergent Science*

9:45 **Steady-State Simulations**
Kelly Senecal, *Convergent Science*

10:10 **Turbulence Modeling**
Tarique Shaikh, *Convergent Science*

10:35 **Fluid-Structure Interaction (FSI) Simulations**
Ashish Joshi, *Convergent Science*

11:00 BREAK

11:30 **Volume of Fluid (VOF) Modeling**
Eric Pomraning, *Convergent Science*

11:55 **Heat Transfer Simulations**
Rainer Rothbauer, *Convergent Science*

12:20 **Radiation Modeling**
Akshay Iyer, *Convergent Science*

12:45 LUNCH

14:00 **Demo of CONVERGE CFD Software**
Tarique Shaikh, *Convergent Science*

14:25 **Pumps and Compressors Modeling**
Geet Nautiyal, *Convergent Science*

14:50 **Gas Turbine Simulations with CONVERGE**
Scott Drennan, *Convergent Science*

15:15 BREAK

15:45 **CONVERGE v3.0 and Beyond**
Eric Pomraning, *Convergent Science*

16:15 **Closing Remarks**
Ashish Joshi, *Convergent Science*

8:00 REGISTRATION

9:00 **Welcome and Introduction to CONVERGE**
Ashish Joshi, *Convergent Science*

9:20 **Alive and Kicking: The Premature Burial of the Internal Combustion Engine**
Kelly Senecal, *Convergent Science*

9:45 **KEYNOTE**
Avinash Kumar Agarwal, *Indian Institute of Technology Kanpur*

10:25 **Modeling Soot Particle Size Distribution in Diesel Engines**
Pawan Duvvuri, *Indian Institute of Technology Bombay*

10:50 **Flow and Combustion Characteristics of a Spark-Ignition Engine Fueled with Bio-Methane**
Sachin Kumar Gupta, *Indian Institute of Technology Madras*

11:15 **BREAK**

11:45 **Capturing Pressure Oscillations in Numerical Simulations of Internal Combustion Engines**
Sreenivasa Rao Gubba, *General Electric*

12:10 **Effect of Direct Fuel Injection Strategy on Combustion, Performance and Emissions of a Port Fuel Injected Compressed Natural Gas Engine Using Simulation Tools**
Virendra Jagtap, *COEP-ARAI*

12:35 **Accelerating LES and URANS Cycle-To-Cycle Variation Studies via Concurrent Perturbuation Method**
Eric Pomraning, *Convergent Science*

13:00 LUNCH

TRACK 1	TRACK 2
14:00 Validation of Pre & Post Spray Impingement Parameters for Diesel Engine Based Exhaust Aftertreatment System Using CONVERGE 2.4 Shirdi Chakkamadathil, *Cummins Emission Systems*	**Study on Direct Water Injection in a GDI Engine by Using CONVERGE** Ankit Raut, *Indian Institute of Technology Madras*
14:25 Prediction of Primary Atomization of Urea Water Spray Using CONVERGE Swati Ajetrao, *Cummins Emission Systems*	**Intake, Exhaust Manifold and Mixer Optimization for Achieving Equal EGR Distribution to Each Cylinder Using 1D-3D Coupled Simulations Approach** Samir Dhatkar, *FEV India Pvt., Ltd.*
14:50 Exhaust Aftertreatment Modeling with CONVERGE Scott Drennan, *Convergent Science*	**Influence of Break-Up Model Parameters & Injection Rate Shape in Diesel Spray Characteristics and Comparison of Biodiesel Blends Using CONVERGE** Shirdi Chakkamadathil, *Vellore Institute of Technology*

15:15 BREAK

16:00 Study of the Effect of Intake Ports in Charge Motion and Combustion Development for PFI & GDI Gasoline Engines
N. Karthikeyan, *Mahindra & Mahindra*

16:25 Fundamental Validation of SCR System Modeling Using CONVERGE
Marua Mohanty and Ganesan Subramaniam, *Caterpillar India Pvt., Ltd.*

16:50 CONVERGE v3.0 and Beyond
Eric Pomraning, *Convergent Science*

17:15 Closing Remarks
Ashish Joshi, *Convergent Science*