

CONFERENCE SCHEDULE

DAY 1 - MONDAY, DECEMBER 8, 2025

- 08:00 **REGISTRATION**
- 09:00 **WELCOME**
Kelly Senecal | Owner & Co-Founder, *Convergent Science Inc.*
- 09:20 **KEYNOTE | The Ubiquitous Impact of Advanced CFD in a Sustainable World**
Kishan Sreenath | Vice President - Powertrain, *Volvo Group*
- 09:50 **Exploring Methanol Combustion Concepts for Heavy-Duty Applications: CFD-Guided Development of PFI SI and DDI CI Pathways**
Ankit A. Raut | *FEV India Pvt. Ltd.*
- 10:10 **A 3D CFD Analysis of the Performance and Emissions of an Off-Highway PFI Hydrogen Engine**
Santosh Dadasaheb Satre | *TAFE Motors and Tractors Ltd.*
- 10:30 **Passive Prechamber Geometry Optimization with CONVERGE**
Prashant Goel | *Maruti Suzuki India Ltd.*
- 10:50 **BREAK**
- 11:20 **Engine Combustion Analysis Using CONVERGE CFD**
Rohit Reddy Bheemireddy | *Royal Enfield*
- 11:40 **CFD-Based Diesel Engine Combustion System Optimization Using Machine Learning**
Dr. Akhil Ailaboina | *Kirloskar Oil Engines Ltd.*
- 12:00 **CFD Study of Mixture Formation in Direct Injection (DI) Hydrogen (H₂) Internal Combustion (IC) Engines Using Multi-Hole Injector**
Shubha N | *IIT Tirupati*
- 12:20 **Mechanistic Understanding of Ammonia Borane as a Hydrogen Supply Additive for Gasoline**
Aboli Pingle | *IIT Bombay*
- 12:40 **New Features and Improved Workflows on CONVERGE Horizon**
Josh Dariano | *Convergent Science Inc.*

13:00 LUNCH

TRACK 1

- 14:00 **From CT Scans to CFD: Modeling Aerosol Transport in the Human Respiratory Tract**
Subho Samanta | *CSIR-CMERI*
- 14:20 **Impact of Non-Zero Gap Meshing on Particle-Resolved CFD Modeling of Heat Transfer in Fixed Bed Reactors**
Shashank Tiwari | *Shell*
- 14:40 **Numerical Modeling Methodology for Battery Thermal Runaway Using CONVERGE**
Roshin Mohan A | *UL Solutions*
- 15:00 **CFD Investigation of a Vacuum Probe Oil Pump Using CONVERGE CFD**
Azeem Dafedar | *noCnX Technologies*

TRACK 2

- Modeling of Internal Nozzle Flow Characteristics in a Urea Injector for a SCR Aftertreatment System**
M Venkata Koti | *IIT Delhi*
- Impact of Spray-Wall Impingement Model During Deposit Simulations in the Aftertreatment Systems**
Dr. Vinod Pandey | *Cummins Technologies India*
- Spray Simulation and Optimization in 2.0L Turbocharged Gasoline Direct Injection (TGDI) Engines**
Priyabrata Mohapatra | *Mahindra & Mahindra*
- A Numerical Investigation of Spray-Wall Interaction in a Gasoline Direct Injection Engine Fueled with Isooctane and Ethanol**
Santu Dolui | *IIT Delhi*

15:20 BREAK

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- 16:10 **Integrated Multi-Scale Simulation: Seamless Coupling of GT-SUITE and CONVERGE for Advanced Engineering Analysis**
Gowtham Chandrasekharan Parameswaran | *Gamma Technologies*
- 16:30 **CONVERGE GPU Solver: Perspectives, Updates and Roadmap**
Sidarth Narayanan | *Convergent Science Inc.*
- 16:50 **CONVERGE - Application**
Daniel Lee | Owner, *Convergent Science Inc.*
- 17:20 **CONVERGE - Development**
Eric Pomraning | Owner & Co-founder, *Convergent Science Inc.*
- 17:50 **NETWORKING & DINNER**

DAY 2 - TUESDAY, DECEMBER 9, 2025

- 09:55 **WELCOME BACK**
- 10:00 **CONVERGE For Exhaust Aftertreatment**
Sumant Morab | *Convergent Science, Inc.*
- 10:45 **CONVERGE For Burners**
Gaurav Katiyar | *Convergent Science, Inc.*
- 11:30 **BREAK**
- 12:00 **CONVERGE For H2ICE**
Mukul Biware | *Convergent Science, Inc.*
- 12:45 **CONVERGE For Emobility**
Gaurav Katiyar | *Convergent Science, Inc.*
- 13:30 **LUNCH**
- 14:30 **WORKSHOP | Rapid Design Optimization Using Machine Learning**
Convergent Science Inc. | University of Moratuwa | Jyoti Pumps

