

HAPPY HOUR

6:30p.m. - 8:30p.m.

DAY 1 TUESDAY, SEPTEMBER 23rd Monona Terrace | 1 John Nolen Dr, Madison, WI 53703

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8:00a.m 8:30a.m.	Welcome Registration + Refreshments
8:30a.m 9:00a.m.	Shifting the CFD Paradigm with CONVERGE: Past, Present and Future Roadmap Daniel Lee Convergent Science, Inc.
9:00a.m 9:45a.m.	KEYNOTE: Challenges and Solutions to Combustion System Design at Cummins John Deur Cummins
9:45a.m 10:15a.m. BREAK	Recent Progress in Nozzle Flow and Spray Modeling at Argonne National Laboratory Sibendu Som Argonne National Laboratory
10:30a.m 11:00a.m.	Influence of Swirl Ratio on Combustion System Performance of a 0.4L Single-Cylinder Diesel Engine Jian Gao General Motors
11:00a.m 11:30a.m.	RANS Modeling of ECN Sprays Chris Gehrke Caterpillar
LUNCH	Monona Terrace Community Terrace
12:30p.m 12:45p.m.	Efficient 3D Computation of Torch Ignition of Premixed Natural Gas in a Pre-Chamber Constant Volume Combustor Md Nazmuzzaman Khan IUPUI
12:45p.m 1:00p.m.	CFD Modeling of a Dual Fuel Engine with Detailed Mechanism and Adaptive Mesh Refinement (AMR) Arash Jamali IUPUI
1:00p.m 1:15p.m.	An Experimental and Multidimensional Computational Study on Uncontrolled Combustion Rates in Natural Gas/Diesel Dual Fuel Engines Andrew Hockett Colorado State University
1:15p.m 1:45p.m.	Numerical Investigation of a Pre-Chamber Based Combustion System Using CONVERGE Prasanna Chinnathambi Mahle Powertrain
1:45p.m 2:15p.m. BREAK	Improving Combustion Performance of Large Bore Natural Gas Engines Shengrong Zhu Prometheus Applied Technologies
2:30p.m 3:00p.m.	Multi-Dimensional Numerical Framework for Dual Fuel Combustion in Large Bore Medium Speed Diesel Engines Adam Klingbeil GE Global Research
3:00p.m 3:30p.m.	Optimization of a Rotary Engine in Terms of Performance and Consumption with the Help of CONVERGE Johann Spreitzer UT Vienna
3:30p.m 4:00p.m.	New CONVERGE Developments in Gas Turbine and UREA/SCR Applications Scott Drennan Convergent Science, Inc.
4:00p.m 4:30p.m.	rescale
4:30p.m 5:15p.m.	KEYNOTE: A CONVERGE Code Application Review Frédéric Ravet Renault

Monona Terrace | Community Terrace

Networking Cruise on Lake Monona | Appetizers + Drinks



DAY 2 WEDNESDAY, SEPTEMBER 24th Monona Terrace | 1 John Nolen Dr, Madison, WI 53703

8:00a.m 8:30a.m.	Welcome Refreshments
8:30a.m 9:00a.m.	CONVERGE in the Japanese Market Ishikawa Masatoshi IDAJ
9:00a.m 9:45a.m.	KEYNOTE: CFD Modeling Application and Challenges in Combustion System Development James Yi Ford
9:45a.m 10:15a.m.	Accelerating Combustion Kinetics in CONVERGE CFD with GPUs Russell Whitesides Lawrence Livermore National Laboratory
BREAK	
10:30a.m 11:00a.m.	Valve Train CFD Simulation for Potential Replacement of Port Flow Bench/Engine Tests to Improve Engine Design Process Abdul Monyem Caterpillar
11:00a.m 11:30a.m.	RANS Cycle-to-Cycle Variations in SI Engine Simulations Riccardo Scarcelli Argonne National Laboratory
LUNCH	Monona Terrace Community Terrace
12:30p.m 1:00p.m.	Utilization of "CONVERGE in the Cloud" at EngSim - SI Combustion Parameter Studies Shreyash Ukidave EngSim
1:00p.m 1:15p.m.	Advanced Combustion Model of LTC Engines Mohammadreza Nazemi Michigan Tech
1:15p.m 1:30p.m.	CONVERGE Work at MTU Ahmed Abdul Moiz Michigan Tech
1:30p.m 2:00p.m.	Lagrangian Modeling of Evaporating Sprays at Diesel Engine Conditions: Effects of Multi-Hole Injector Nozzles with JP-8 Surrogates Michael Tess Army Research Lab
2:00p.m 2:30p.m.	Effect of Moisture on Hydrogen-Air Combustion Mandhapati Raju Ecsta-Sci Tech Consulting LLC
BREAK	
2.45	Un a continue Complementia on Mandala in CONIVERCE 3.7 Complement Caldinal Community Cairman Inc.

Upcoming Combustion Models in CONVERGE 2.3 Graham Goldin | Convergent Science, Inc. 2:45p.m. - 3:15p.m.

OPTIMAL SOLUTIONS 3:15p.m. - 3:45p.m.



Diesel-Natural Gas RCCI Combustion Evaluation on a Heavy-Duty Diesel Engine Using 3:45p.m. - 4:15p.m. **CONVERGE** Erik Koehler | FEV

Shifting the Paradigm Toward Predictive CFD: New Industries and New Marketing Initiatives 4:15p.m. - 5:00p.m. Rob Kaczmarek | Convergent Science, Inc.

BREAK

Cooper's Tavern | Dinner + Drinks + Trivia 6:30p.m. - 8:30p.m.

20 W Mifflin St, Madison, WI 53703