PRESENTATION SCHEDULE DETAIL

TUESDAY, SEPTEMBER 25

MORNING

7:00 – 8:00	**BREAKFAST & REFRESHMENTS**
7:45 – 8:00	WELCOME Kelly Senecal, *Convergent Science*
8:00 – 8:40	**KEYNOTE** A DECADE WITH GRID CONVERGED CALCULATIONS Sibendu Som, *Argonne National Laboratory*
8:40 – 9:05	THERMAL INSULATION MODELLING WITH CHT FOR LOW HEAT REJECTION DIESEL ENGINE Olivier Colin, *IFP Energies nouvelles*
9:05 – 9:30	FLAME-WALL FILM INTERACTION Peng Zhao, *Oakland University*
9:30 – 9:55	APPLICATION OF LES TO PREMIXED LOW TEMPERATURE COMBUSTION ENGINES Aimilios Sofianopoulos, *Stony Brook University*
9:55 – 10:10	TECHNICAL PARTNER PRESENTATION *Tecplot*
10:10 – 10:30	BREAK
10:30 – 10:55	STEADY STATE CALIBRATION DEVELOPMENT FOR PASSENGER CAR DIESEL ENGINES LEVER-AGING GRAPHICAL PROCESSING UNITS (GPUS) Ronald Grover Jr., *General Motors*
10:55 – 11:20	FURTHER APPLICATION OF THE FAST TABULATED CPV APPROACH Adina Werner, *Brandenburg University of Technology*
11:20 – 11:45	DEVELOPING RELIABLE SURROGATE MECHANISMS FOR COMBUSTOR MODELING Henry Curran, *Computational Chemistry Consortium (C3)*
11:45 – 12:00	TECHNICAL PARTNER PRESENTATION *TotalCAE*
12:00 – 1:30	LUNCH

AFTERNOON / EVENING

1:30 – 1:55	FLAME CHARACTERISTICS DURING LEAN BLOW-OUT IN GAS TURBINE COMBUSTORS Prithwish Kundu, *Argonne National Laboratory*
1:55 – 2:20	NUMERICAL INVESTIGATION OF A PREMIXED DUMP COMBUSTOR USING LES Madhu Vellakal, *National Center for Supercomputing Applications*
2:20 – 2:45	LES OF A STRATIFIED TURBULENT BURNER USING THICKENED FLAME MODEL AND AMR Cédric Mehl, *IFP Energies nouvelles*
2:45 – 3:10	TECHNICAL ACHIEVEMENTS IN GAS TURBINES AND AFTERTREATMENT Scott Drennan, *Convergent Science*
3:10 – 3:25	TECHNICAL PARTNER PRESENTATION *CAESES*
3:25 – 3:45	BREAK
3:45 – 4:25	**KEYNOTE** NEW HORIZONS IN ENERGY TECHNOLOGY WITH CONVERGE David Schmidt, *University of Massachusetts Amherst*

6:00 – 10:00	**10-YEAR CELEBRATION + DINNER** THE ORPHEUM THEATER Dianna Cowern, *Physics Girl* Jamie McNaughton, *Roush Yates Engines* Kelly Senecal, *Convergent Science*

Difficulty seeing the slides?
Watch all of the presentations live on your laptop.

gotomeet.me/converge

WEDNESDAY, SEPTEMBER 26

MORNING

7:00 – 8:00	**BREAKFAST & REFRESHMENTS**
7:50 – 8:00	WELCOME BACK Elizabeth Favreau & Erik Tylczak, *Convergent Science*
8:00 – 8:40	**KEYNOTE** NEW DEVELOPMENTS IN HIGH EFFICIENCY ENGINES Terry Alger, *Southwest Research Institute*
8:40 – 9:05	SIMULATION OF SPARK-IGNITION COMBUSTION FOR CO-OPTIMIZATION OF FUELS AND ENGINES Zongyu Yue, *Argonne National Laboratory*
9:05 – 9:30	A COMPREHENSIVE AND ROBUST IGNITION SYSTEM MODEL FOR SI ENGINES Haiwen Ge, *Virtual Thermal Fluids LLC, Oakland University*
9:30 – 9:55	MODELING ADVANCED IGNITION SYSTEMS IN CONVERGE Riccardo Scarcelli, *Argonne National Laboratory*
9:55 – 10:10	TECHNICAL PARTNER PRESENTATION *Rescale*
10:10 – 10:30	BREAK
10:30 – 10:55	AERODYNAMIC AND COMBUSTION LARGE-EDDY SIMULATIONS OF ENGINE CONFIGURATIONS Anthony Robert, *IFP Energies nouvelles*
10:55 – 11:20	SURROGATE IMPACT ON FLAME PROPAGATION AND KNOCK PREDICTION Corinna Netzer, *Brandenburg University of Technology*
11:20 – 11:45	AUTOIGNITION PROCESSES IN ADVANCED INTERNAL COMBUSTION ENGINES Andrew Zdanowicz, *Colorado State University*
11:45 – 12:00	TECHNICAL PARTNER PRESENTATION *Intelligent Light*
12:00 – 1:30	LUNCH

AFTERNOON / EVENING

1:30 – 1:55	CONFESSIONS OF A SPRAY EXPERIMENTALIST Lyle Pickett, *Sandia National Laboratory*
1:55 – 2:20	FUEL EFFECT ON SPRAY UNDER COMPRESSION IGNITION ENGINE CONDITIONS Yuanjiang Pei, *Aramco Research Center - Detroit*
2:20 – 2:45	AN OVERVIEW OF MULTIPHASE FLOW MODELING AT ARGONNE NATIONAL LABORATORY Gina Magnotti, *Argonne National Laboratory*
2:45 – 3:10	ENGINE OPTIMIZATION USING MACHINE LEARNING EMULATORS Dan Probst, *Convergent Science*
3:10 – 3:30	BREAK
3:30 – 3:55	THE POWER OF SIMULATION IN RACING AT ROUSH YATES ENGINES Brian Kurn, *Roush Yates Engines*
3:55 – 4:20	CFD DEVELOPMENT OF THE LIQUIDPISTON ROTARY ENGINE Mike Bergin, *Liquid Piston*
4:20 – 4:45	MODELING FLOWS IN TWIN SCREW SUPERCHARGERS AND EXHAUST HEAT RECOVERY UNITS David Rowinski, *Convergent Science*
4:45 – 5:10	CHANGING THE GAME (AGAIN) WITH CONVERGE 3.0 Keith Richards, *Convergent Science*
5:10	CLOSING REMARKS

5:10-7:00	**COCKTAIL RECEPTION** Madison Club