

PRESENTATION SCHEDULE DETAIL

TUESDAY, SEPTEMBER 24

MORNING

7:00-8:00	BREAKFAST & REFRESHMENTS
7:45-8:00	WELCOME Kelly Senecal, <i>Convergent Science</i>
8:00-8:40	KEYNOTE THE FUTURE OF COMPUTING: BIG DATA, BIG COMPUTE AND DIGITAL TRANSFORMATION Joris Poort, <i>Rescale</i>
8:40-9:05	ACCELERATING DESIGN OPTIMIZATION USING MACHINE LEARNING AND HPC Opeoluwa Owoyele, <i>Argonne National Laboratory</i>
9:05-9:30	CFD-BASED FEATURE ENGINEERING FOR NOX MACHINE LEARNING MODEL Saurabh Sharma, <i>Isuzu Technical Center of America</i>
9:30-9:55	COMBUSTION SYSTEM DESIGN OPTIMIZATION FOR A HEAVY DUTY GASOLINE CI ENGINE Meng Tang, <i>Aramco Research Center-Detroit</i>
9:55-10:10	SPONSOR PRESENTATION <i>TotalCAE</i>
10:10-10:30	BREAK
10:30-10:55	ENABLING NEW APPLICATIONS WITH CONVERGE V3.0 Tristan Burton, <i>Convergent Science</i>
10:55-11:20	AERODYNAMIC CHARACTERIZATION OF AN UNMANNED AERIAL SYSTEM VIA 3D CFD SIMULATIONS I-Han Lui, <i>Argonne National Laboratory</i>
11:20-11:45	CFD MODELING OF FLAME SPRAY PYROLYSIS FOR LARGE-SCALE MANUFACTURING APPLICATIONS Debolina Dasgupta, <i>Argonne National Laboratory</i>
11:45-12:00	SPONSOR PRESENTATION <i>Tecplot</i>
12:00-1:30	LUNCH

AFTERNOON / EVENING

1:30-1:55	SIMULATION OF FLAME PROPAGATION IN AN ANNULAR COMBUSTOR Haiwen Ge, <i>Texas Tech University</i>
1:55-2:20	NUMERICAL MODELING OF SUPERSONIC COMBUSTION IN ROTATING DETONATION ENGINES Pinaki Pal, <i>Argonne National Laboratory</i>
2:20-2:45	WHAT V3.0 DELIVERS FOR AFTERTREATMENT AND GAS TURBINES Scott Drennan, <i>Convergent Science</i>
2:45-3:00	SPONSOR PRESENTATION <i>Rescale</i>
3:00-3:20	BREAK
3:20-4:00	KEYNOTE NUMERICAL SIMULATION OF PHYSIOLOGICAL FLOWS Alejandro Roldán-Alzate, <i>University of Wisconsin-Madison</i>
4:00-4:25	PARAMETRIC STUDIES ON AXIAL AND RADIAL CLEARANCES IN A BLOOD PUMP Choon-Sik Jhun, <i>Penn State University</i>
6:00-10:00	DINNER + RIVER CRUISE Steamboat NATCHEZ Reservation required. Transportation provided. Please meet in venue hotel lobby at 5:30p.

WEDNESDAY, SEPTEMBER 25

MORNING

7:00-8:00	BREAKFAST & REFRESHMENTS
7:50-8:00	WELCOME BACK Elizabeth Favreau, <i>Convergent Science</i>
8:00-8:40	KEYNOTE ITCA'S WAY FORWARD? MAYBE! Bruce Vernham, <i>Isuzu Technical Center of America</i>
8:40-9:05	INTERNAL NOZZLE FLOW SIMULATIONS ACCOUNTING FOR GAS WITHIN THE SAC AND INJECTOR ELASTICITY Lyle Pickett, <i>Sandia National Laboratories</i>
9:05-9:30	FUEL EFFECTS IN MULTIPHASE FLOW MODELING FOR SI AND CI CONDITIONS AND INJECTORS Lorenzo Nocivelli, <i>Argonne National Laboratory</i>
9:30-9:55	SPRAY A MODELLING USING CONVERGE Rajes Ram Muthukumar, <i>Texas Tech University</i>
9:55-10:15	BREAK
10:15-10:40	THE IMPORTANCE OF NON-SPHERICAL DROPS IN SUPERCRITICAL FUEL INJECTION Tuan Nguyen, <i>Sandia National Laboratories</i>
10:40-11:05	NUMERICAL STUDY OF PRE-CHAMBER IGNITION IN A GASOLINE DIRECT-INJECTION ENGINE Anqi Zhang, <i>Aramco Research Center-Detroit</i>
11:05-11:30	STATE-OF-THE-ART IN PRE-CHAMBER SPARK-IGNITION MODELING Joochan Kim, <i>Argonne National Laboratory</i>
11:30-11:55	INVESTIGATIONS ON PASSIVE PRE-CHAMBER IGNITION DEVICE Adele Poubeau, <i>IFP Energies nouvelles</i>
12:00-1:30	LUNCH

AFTERNOON / EVENING

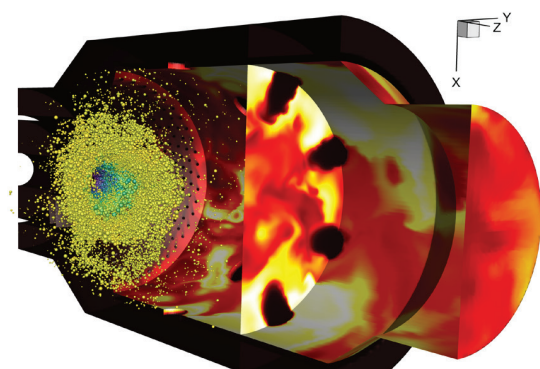
1:30-1:55	LES OF STRATIFIED LOW TEMPERATURE COMBUSTION ENGINES USING CONVERGE Aimilios Sofianopoulos, <i>Convergent Science</i>
1:55-2:20	POTENTIAL EFFICIENCY IMPROVEMENTS WITH CO-OPTIMIZATION OF FUELS AND ENGINES Chao Xu, <i>Argonne National Laboratory</i>
2:20-2:45	STUDY OF THE SOOT FORMATION IN A GDI SPRAY USING LASER-INDUCED PLASMA IGNITION Fabien Tagliante, <i>Sandia National Laboratories</i>
2:45-3:10	CFD STUDY OF TSCI WITH WET ETHANOL: SPRAY ANGLE EFFECT ON THERMAL STRATIFICATION Mozhgan Rahimi Boldaji, <i>Clemson University</i>
3:10-3:30	BREAK
3:30-3:55	CI AND SI ENGINE APPLICATIONS WITH ECFM AND ECFM3Z Olivier Colin, <i>IFP Energies nouvelles</i>
3:55-4:20	USING THICKENED FLAME MODEL AND AMR FOR TURBULENT COMBUSTION MODELING Cedric Mehl, <i>IFP Energies nouvelles</i>
4:20-4:45	RECENT PROGRESS OF THE COMPUTATIONAL CHEMISTRY CONSORTIUM Henry Curran, <i>NUI Galway</i>
4:45-5:10	CONVERGE 3.0 RESULTS AND LOOKING AHEAD TO 3.1 Keith Richards, <i>Convergent Science</i>
5:10	CLOSING REMARKS

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