

GT CONFERENCE 2016

OCTOBER 17-18, 2016

Steigenberger Airport Hotel Frankfurt, Germany

THE LARGEST EVENT FOR SYSTEM SIMULATION

- 400 Participants
- 30 Technical Presentations
- 4 Parallel Sessions
- 10 Demonstration Spots
- Preview of the New Version V2017

With the participation of:

Aston-Martin, AUDI, BorgWarner, Continental, CTU Prague, Daimler, FEV, Fiat Chrysler Automobiles, Ford, Ford Otosan, GM Global Propulsion Systems, Honeywell, InDesA, Ipetronik, Mahle International, Mahle Powertrain, Mecaplast, Porsche Engineering, Powertech, Robert Bosch, Sanden, Thermotec, Wartsila and many others...

Sunday, 16 October 2016

20:00

Traditional Get-Together at the Hotel - Come to meet GT staff and your friends

Monday, 17 October 2016

08:00 REGISTRATION

08:50 Simulating Thermal Management Systems and Engine Heat Distribution, *R. Fontaine, J. Hysko*, **GM Global Propulsion Systems**

Advanced Boosting for Eu6d Gasoline Engines, *T. Herland, A. Vondrak, L. Pohorelsky, J-S. Roux*, **Honeywell Turbo Technologie**

Variable Valve Timing of Intake Valves of a Heavy-Duty Diesel Engine, *S. Naujoks*, **MAHLE International**

Preview of the Next Version GT-SUITE V2017 – Part 1, **GT**

10:15 REFRESHMENT AND EXHIBITION

11:00	ENGINE MODELING	FUEL SYSTEM & OIL CIRCUIT	VEHICLE	THERMAL MANAGEMENT
	An Investigation of Bi-Stable Gas Exchange Phenomena in a Two-Stroke Engine, <i>J. Papadakis</i> , MAHLE Powertrain	Modeling of a New Generation Solenoid Common Rail Injector, <i>A. Piano, F. Millo</i> , Politecnico di Torino , <i>L. Postriori, G. Biscontini, A. Cavicchi</i> , Università degli Studi di Perugia , <i>F.C. Pesce</i> , GM	Well-to-Wheel Analysis of Electrified Drivetrains under Realistic Boundary Conditions and User Behavior, <i>B. Hollweck</i> , Daimler	Cooling Systems Development using GT-SUITE, <i>M. Hills</i> , Aston Martin
	Modeling Study to Elucidate the Effect of Sulfur on DOC Performance, <i>C. Sampara, T. Hamzehlouvan, W. Epling</i> , University of Houston	Study of Cavitation on a Gerotor Pump with a 1D Modeling Approach, <i>D. Buono, E. Frosina, Prof. A. Senatore</i> University of Naples Federico II	Simulation Based Method for Future RDE Legislation, <i>A. Balazs, S.K. Yadla</i> , FEV	Real Time Thermal Management Model Development, <i>M. Şimşek</i> , Ford OTOSAN
	The New V8: Audi's V8TDI-4.0L-Engine Development Supported by GT-POWER, <i>T. Rausch</i> , Audi	Thermal Warmup in the Low Pressure Fuel System depending on High-Pressure Configurations, <i>X. Chen, C. Born</i> Ford	Complete Design of Electric Powertrain for Electric & Plug-in-Hybrid-Vehicle in Applying Multiple-Optimization, <i>A. Babik</i> , BOSCH	Thermal Management of High Voltage Batteries, <i>I. Traoré, J. Tissot, J. Blandin, K. Azzouz</i> , Valeo

12:00 LUNCH

13:30	ACOUSTICS / NVH	TURBOCHARGING	HEAT & EXHAUST	HVAC
	Receiver Pulses and Temperature Distribution Impact on Performance of a Large Bore Gas Engine, <i>G. Lo Iacono, G. Caputo, G. Rizzetto</i> , Wartsila , <i>E. Servetto</i> , Powertech	Transient Performance of Large-bore SI Engine, <i>O. Vitek, J. Macek</i> , CTU Prague	Complete Engine Thermal Model – High-Resolution 3D results reference for Fast-Running 1D model, <i>M. Bovo</i> , Volvo Car Corporation	Modeling of Scroll Compressor using GT-SUITE, <i>Ha-Duong Pham</i> , Sanden
	1D Acoustic Optimization of Air Intake Systems, <i>M. Doggui</i> , Mecaplast Group	Simulation of a Pre-Compressor Swirl Device with GT-Power, <i>A. Bongards, Dr. W. Wenzel, J. Song</i> , BorgWarner	Prediction of Engine Warm-up and Fuel Economy Utilizing GT's Customized FE Cylinder Structure Objects, <i>Dr. G. Seider</i> , InDesA	Simulation of a Vehicle AC System and its Comparison to Measured Data, <i>C. Schwegler</i> , IPETRONIK
	A Novel Approach to Predict HVAC Noise Using 1D Simulation <i>B. Vasanth</i> , FCA	e-Charging System Investigation on Fuel Economy and Performance for a Heavy Duty Diesel Engine, <i>A.H. Guzel, C. Harman</i> , Ford OTOSAN	Precise Exhaust Enthalpy and Temperature Calculation in 1D Simulation, <i>B. Höpke, B. Franzke, T. Uhlmann, J. Scharf</i> , FEV	Coupled AC and Cooling System Simulation – Automated Handling of Data and Variations, <i>R. Tauscher</i> , Thermotec

14:30 REFRESHMENT AND EXHIBITION





15:15 Increase of Full Load Efficiency through the Use of an Expansion Intake Manifold, *G. Corvaglia, V. Bevilacqua*, **Porsche Engineering**

Evaluation of Electric Compressor versus Electric Boosting on a Crankshaft for a High Efficiency SI Engine, *M. Sterr*, **Continental**

Engine Calibration Support via GT-POWER, *S. Pizza, A. Gallone, M. Rimondi*, **GM Propulsion Systems – Torino**

Preview of the Next Version GT-SUITE V2017 – Part 2, **GT**

17:00 ADJOURN – BEER BREAK

19:30  **Black**  **Jack**  **Dinner** 

Monday, 17 October 2016

19:30

Black Jack Dinner

for Conference Attendees

Come join us for the dinner. For only \$21, enjoy a light dinner, drinks, and fun at the Blackjack (21) tables. Registration in USD at <https://www.gtisoft.com/>
Location: Steigenberger Hotel



Tuesday, 18 October 2016

09:00

V2017 SEMINARS IN STEIGENBERGER HOTEL

AM Session 09:00 to 12:00	NEW Oil Thermal Management for Friction Reduction	NEW V2017 New Features in GT-POWER for SiL and HiL	NEW Cabin Modeling	V2017 New Features for Thermal Management	Advanced Topics in Predictive SI Combustion	New Development in Exhaust Aftertreatment	NEW vRDE with GT
PM Session 13:30 to 16:30	NEW Hydraulics for Engine & Transmission Systems	NEW V2017 New Features in GT-POWER for SiL and HiL	V2017 New Features for Thermal Management	NEW Cabin Modeling	Advanced Topics in Predictive Diesel Combustion	NEW Acoustics	NEW vRDE with GT

½ day Seminars - Free-of-charge - Participate in 2 Seminars in 1 day

09:00

TRAINING IN ESCHBORN CENTER

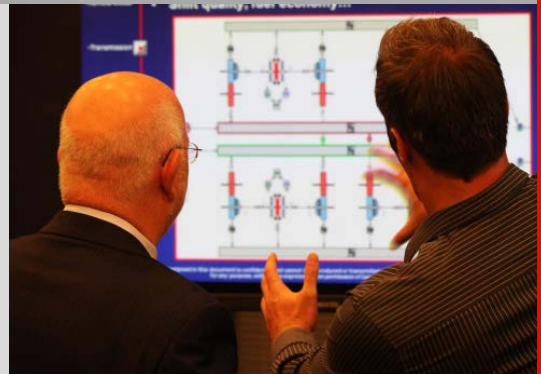
Modeling Vehicle Cooling Systems	GT-POWER Engine Modeling	Modeling Rankine Waste Heat Recovery Systems	Exhaust Aftertreatment Modeling	Hydraulic System and Component Modeling	Vehicle and Driveline Modeling	Lubrication and Oil System Modeling	Engine Heat Distribution
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More Information and Registration online: <https://www.gtisoft.com/>

EXHIBITION

DEMO SPOTS WITH LARGE SCREENS

- SiL, HiL, RT
- VTM
- Cabin
- Aftertreatment
- Combustion
- Lubrication/Hydraulics
- Vehicle/HEV
- Transmission
- Valvetrain
- Acoustics



GT CONFERENCE 2016

The largest conference for System Simulation
400 participants

Demo Spots highlighting new developments & applications

Free-of-charge Conference & Seminars

Registration: <https://www.gtisoft.com/>

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