

GT CONFERENCE 2015



THE LARGEST EVENT FOR SYSTEM SIMULATION

- **400 Participants**
- **30 Technical Presentations**
- **4 Parallel Sessions**
- **10 Demonstration Spots**
- **Preview of the New Version V2016**

OCTOBER 26-27 2015

Steigenberger Airport Hotel Frankfurt, Germany

With the participation of:

Audi, Chalmers University, CLAAS, Continental, Daimler, CTU Prague, Eberspächer, Faurecia, FEV, Fiat-CRF, Fiat-Chrysler Automobiles (FCA), Ford Otosan, GM, IAV, IVK Stuttgart, MAN Truck & Bus, MTU, Nissan, Pierburg, Powertech, RWTH Aachen, Safran-SMA, Scania, Thermotec, Valeo, Volvo Cars, Winterthur Gas & Diesel and others

Sunday, 25 October 2015

20:00

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

Monday, 26 October 2015

08:00

REGISTRATION

08:55

Using 1d Simulations to optimize a Supercharger for a twin charged DI Gasoline Engine, *R. Burenius, Volvo Cars*

Holistic Design of a Cam-phaser using GT-SUITE, *B. Schaal, T. Fischer, Daimler*

Determination of a Turbocharged Gasoline Engine for Hybrid Powertrains, *F. Kercher, M. Auerbach, S. Grams, AUDI, Prof. M. Bargende, IVK Stuttgart*

Preview of the Next Version GT-SUITE V2016 – Part 1, **GT**

10:15

REFRESHMENT AND EXHIBITION

11:00

COMBUSTION/TPA

EXHAUST

CONSUMPTION

VTM

DI-Pulse Combustion Model Calibration in GT-POWER, *V. Venkateshmohan, Volvo Cars, M. Kumar, Chalmers University*

Engine Brake for Heavy Duty Diesel Engine by Using GT-POWER & VT-Design, *G. Argalioğlu, C. Harman, Ford Otosan*

Evaluating the Performance & the Consumption of an Aircraft on Various Flight Profiles, *T. Wasselin, H. Wampach-Bourjot, Safran-SMA*

Latent Heat Battery for an Optimized Powertrain Warmup, *M. Lissner, J. Tissot, K. Azzouz, VALEO*

GT-SUITE to Enhance Single-Cylinder Measurements, *J. Boyde, MTU*

Exhaust Heat Recovery System with GT-SUITE, *J. Hergott, A. Moisy, Faurecia*

Real Driving Simulation using GT-SUITE and CARMAKER, *A. Balazs, FEV*

Simulation for Heavy Duty Truck Cooling and Engine Analysis, *A. Schydlow, MAN Truck & Bus*

Integrated 1D Simulation *S. Hensel, C. Dahnz, Winterthur Gas & Diesel, P. Cernik, CTU Prag*

SCRF Global Kinetic Model in GT: from Reactor-scale to Full Transient Engine-scale, *P. Ferreri, M. Rimondi, GM*

Tractor Concept and Use of Simulation to Estimate Fuel Consumption, *H.-C. Goettsche-Goetze, CLAAS*

Analysis of Cooling Systems – Approaches to Handle System Complexity and Variants, *R. Tauscher, Thermotec*

12:00

LUNCH

13:30

TURBOCHARGING

SiL / HiL / RT

Hydro Mechanics

HVAC

Modeling of Axial Forces on Turbocharger Rotors, *M. Stadermann, VKA/RWTH Aachen, J. Scharf, FEV*

Multi-Core HiL Simulation of an Integrated Engine & Cooling Model, *A. Ruggiero, I. Montalto, P. Poletto, FIAT (FCA), K. Mustafaj, POWERTECH*

A Variable Oil Pump GT investigations: Modelisation, Validation, Predictive Results, *G. Volandri, M. Gasperini, R. Squarcini, Pierburg*

Detailed Compressor Modeling and Bottle Cooler Simulation, *D. Leray, Tecumseh*

Physical Model of a Twin Scroll Turbine in GT-SUITE, *Z. Zak, J. Macek, O. Vitek, CTU Prague*

Calibration Support Using a HiL Simulator with an Engine Model with Exhaust Aftertreatment, *J. Kabitzke, IAV*

Simulation of Crankshaft Lubrication in a Heavy Duty Diesel Engine, *M. Diallo, Scania*

Modeling the XC90 HVAC System, *S. Gullman, Volvo Cars*

TurboCharger Technologies for High Efficiency Miller Engines, *N. Al-Hasan, J. Beer, J. Ehrhard Continental, T. Lorenz, L. Stump, Ford-Werke*

Acoustic Analysis of an Active Noise Control System on HiL Test bench, *F. Buganza, D. Tajic, Eberspächer*

Model-based Calibration using Coupled Hydraulic and Combustion Simulation, *D. Backofen, L. Wybieralski, R. Rezaei, B. Tilch, IAV*

Advanced Simulation of Cabin in using new Modeling Technologies, *M. Lehocky, D. Marsh, GT*

14:30

REFRESHMENT AND EXHIBITION

15:15

Evaluation of Powertrain Startability During Engine Cold Start at Low Barometric Conditions, *M. Bernardi, F. Zamponi, J. Hysko, GM*

The Potential of Consistent Tool chain in Powertrain development V-Process, *T. Kodawara, M. Kubo, Nissan*

E-Charging on a High Performance Diesel Engine, *D. Peci, C. Venezia, FIAT- CRF*

Preview of the Next Version GT-SUITE V2016 – Part 2, **GT**

17:00

ADJOURN – BEER BREAK

Monday, 26 October 2015

20:00

♣ Black ♦ Jack ♠ Dinner ♥ for Conference Attendees
 Come join us for "21 Night,, ! For only \$21, enjoy a light dinner, drinks, and fun at the Blackjack (21) tables. Registration in USD at www.gtisoft.com
 Location: Steigenberger Hotel



Tuesday, 27 October 2015

09:00

V2016 SEMINARS IN STEIGENBERGER HOTEL

AM Session 09:00 to 12:00	NEW Transmission Design Using Romax & GT-SUITE	Advanced Topics in Turbocharger Modeling	Advanced Topics & New Features in Hydraulics and Lubrication	NEW GT-POWER on SiL and HiL	NEW Virtual Vehicle & Powertrain Platform - Large scale Modeling -	Advanced Topics in Predictive SI Combustion	NEW Unknown & New Features of GT-POST	Advanced Topics in Thermal Management	New Development in Exhaust Aftertreatment
	PM Session 13:30 to 16:30	NEW Advanced Topics in Drivetrain Integrated Simulation	Advanced Topics in Turbocharger Modeling	NEW New Features in General Mechanics	NEW GT-POWER on SiL and HiL	NEW Aftertreatment Modeling Workflow	Advanced Topics in Predictive Diesel Combustion	NEW Unknown & New Features of GT-POST	Advanced Topics in Thermal Management

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

09:00

TRAINING IN ESCHBORN CENTER

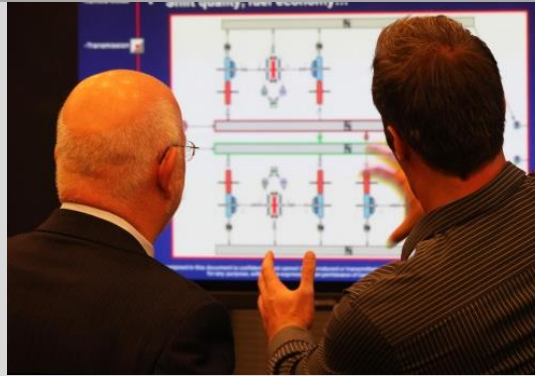
Modeling Vehicle Cooling Systems	GT-POWER Engine Modeling	Modeling HVAC Systems	Modeling Rankine Waste Heat Recovery Systems	Exhaust Aftertreatment Modeling	Hydraulic System and Component Modeling	Advanced Vehicle Modeling
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More Information and Registration online: 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 2015

The largest conference for System Simulation

400 participants

Demo Spots highlighting new developments & applications

Free-of-charge Conference & Seminars

Registration: www.gtisoft.com

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