GTTC 22

GT TECHNICAL CONFERENCE

AGENDA EUROPE

Presentation Day: Oct 24, 2022
Seminar Day: Oct 25, 2022

GAMMA TECHNOLOGIES

DAY 1 - MONDAY, OCTOBER 24 | Morning Session

07:30 REGISTRATION & COFFEE

08:15 **Jan Böbel,** Manager of Europen Operations, **GAMMA TECHNOLOGIES - Opening Remarks**

08:25 **Dimple Shah,** President & CEO , **GAMMA TECHNOLOGIES - Welcome Address**

08:40 **KEYNOTE ADDRESS | Inter-systems Simulations: Stakes and Challenges**
William Bécamel, Expert Leader Numerical Modeling and Simulation, **RENAULT**

09:05 **KEYNOTE ADDRESS | Always Going the Extra Mile**
Ivan Krajinović, Head of Simulations, RIMAC TECHNOLOGY

09:30 **GAMMA TECHNOLOGIES - To Be Announced**

09:50 REFRESHMENTS & EXHIBITION

	FUEL CELL	VEHICLE THERMAL MANAGEMENT	MECHANICS	ENGINE/COMBUSTION & AFTERTMNT.
10:30	**Freudenberg Fuel Cell e-Power Systems GmbH** *Keval Chotaliya* Development of the Fuel Cell Systems for Maritime Applications using LNG as a Fuel	**Vedecom** *Ilango Thiagalingam* A numerical platform to design thermal comfort solutions	**Rheinmetall** *Frank Seifert, Artur Hottmann* 3D-MBD Simulation model of the DuoCam	**Robert Bosch GmbH** *Gabriele Sgroi* H2 ICE: Air system Concepts for the Heavy Duty Application
10:50	**MAHLE International** *Felix Kleinheinz* To Be Announced	**Rimac Technology** *Karl Hohenberg* A System-level Model for the Prediction of Electric Drive Unit Thermal Performance	**Liebherr Components Colmar** *Mathieu Mincato* The Improvement of Cranktrain Bearings Simulation Methodology	**Scania** *Haohao He* GT-POWER-xRT in SiL and HiL Testing for Combustion Engines
11:10	**Symbio** *Emilien Sopetti* Hydrogen Recirculation System Optimization for a PEM Fuel Cell	**EMISIA** *Girogios Mellios* Virtual Benchmarking of Mobile Air Condition-ing Systems to Support 'Eco-Innovation' Policies	**Garrett Motion** *Juraj Pospisil* New Approach in Wastegate Turbo Kinematics	**Punch** *Alessandro Grosso* Calibration Optimization of a Dual Fuel (Diesel + Hydrogen) Engine Using GT-SUITE
11:30	**Powercell Sweden AB** *Stefan Bohatsch* Integration of Fuel Cells and Electrolysers in Powergrid Applications	**Ariamis** *Mokhtar Moustefaoui* Thermal Management Focused on Fuel Cell Vehicle by GT-SUITE	**Universidade de Vigo** *Javier Blanco-Rodríguez* Friction and Wear Assessment of Ultra-low Viscosity Oil Formulations Based on a Validated Elasto-hydrodynamic Simulation Model	**Renault** *Alain Lefebvre* Fuel EVAP System Design and Control Optimization via Integrated 1D Simulation to Tackle Future Emissions Standards
11:50	**Bramble Energy** *Anoop Selvaraj* Maritime Fuel Cell		**MAHLE UK** *Jens Neumeister* Optimization of a gear drive train for a HD truck engine with addition of 40 KW hybrid system	

12:10 LUNCH & EXHIBITION

Note: The above agenda schedule is in the preliminary stage and might be subject to changes.

DAY 1 - MONDAY, OCTOBER 24 | Afternoon Session

	BATTERY	XIL/CONTROLS	FLUID SYSTEMS	COMPONENT THERMAL MGMT.
13:30	**Volvo AB** *Masih Khoshab* Battery Pack Cooling	**CEVT/InfiMotion** *Shino George* Math – Rig – Road: Virtual Calibration of an Electric Rear Axle Installation using GT-SUITE	**Faurecia** *Julien Hergott* Cryogenic Hydrogen Storage Simulation with GT-SUITE	**Valeo** *Jérémy Blandin* Battery Pack Design with Immersive Cooling using GT-SUITE and GT-CONVERGE
13:50	**Scania** *Shruti Srivastav* Electrochemical Performance of Large Prismatic Cells	**ACTA Industrie** *Remi Roussel* Coupling a PLC with GT-SUITE Air Handling Unit Model	**Powertrain Engineering Sweden** *Lars-Olof Carlsson* Aspects on ICE Oil system GT-ISE model accuracy - Volvo Engine Petrol VEP4 gen 3	**BMW M** *Anirudh Jaipuria* Thermal Simulation Workflow for High Performance Electric Motors
14:10	**Ford Otosan** *TBA* Aging Prediction Study, First-Time-Through with GT-AutoLion	**Politecnico di Torino** *Luciano Ronaldo* Development of a Virtual Test Rig for Advanced Thermal Management System for Battery Electric Vehicles	**Obrist Engineering** *Markus Öttl* Enhancing a Matlab-based Scroll Simulation Tool with GT-SUITE	**Rimac Technology** *Nikola Vujnović* Applying a General Cylindrical Element with Additional Thermal Resistance for Simplified Three-dimensional Thermal Modelling of Cylindrical Battery Cells
14:30	**University Valencia** *Santiago Daniel Martinez Boggio* Identifying Key Aspects of Thermal Runaway Modelling for Lithium-ion Battery Cells using GT-AutoLion	**Bosch Engineering GmbH** *Marinus Wieser* Free Piston Engine as an ORC expander-compressor unit for (waste) heat powered air compression	**KEYOU** *Daniel Grassinger* Hydrogen Specific Fuel Rail – Modelling Approach	
14:50	REFRESHMENTS & EXHIBITION			
15:30	**POWERTECH ENGINEERING | Eduardo Graciano** **Development of a 1D Multi-Physics PHEV model for Thermal and Energy Management Optimization**			
15:50	**SANDEN | Olivier Derollepot** **GT-Play implementation and roadmap for spreading simulation information at SANDEN**			
16:10	**TOSHIBA | Ryosuke Yagi** **Toshiba rechargeable battery "SCiBTM " cell model with GT-AutoLion**			
16:30	**GAMMA TECHNOLOGIES | Iakovos Papadimitriou** **TBA**			
17:10	ADJOURN & BEER BREAK			
19:30	BLACK JACK NIGHT			

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DAY 2- TUESDAY, OCTOBER 25 | GT Seminar Sessions

	MORNING SESSIONS | 8 CONCURRENT SESSIONS			
9:00	Multiphysics Vehicle Optimization	Battery Modeling with GT-SUITE and GT-AutoLion	Thermal Management Systems	Fuel Cell System Modeling Advancements
	Mechanical Dynamics and Predictive Friction	Designing and Deploying GT Models Beyond Today's Experts	Use of GT-POWER-xRT for Hardware-, Software- and Model-in-the-Loop Development	3D CFD for non-CFD Experts with GT-CONVERGE
12:00	**LUNCH**			
	AFTERNOON SESSIONS | 8 CONCURRENT SESSIONS			
13:30	Combustion Modeling in GT-POWER & ACT	Exhaust Aftertreatment, Reformers, and Chemistry Applications	Multi-physics Solutions for Detailed Pumps, Compressors and Expanders	Electric PowerTrain Modeling with GT-SUITE, GT-FEMAG, and GT-PowerForge
	Thermal Management Components: Fast & Accurate 1D + 3D solution	Addressing NVH Challenges in Electrified Powertrains	Leveraging Optimization and Automation to Accelerate Innovation	Co-simulation and XiL Solutions Across Applications
16:30	**END OF SEMINAR DAY SESSIONS**			

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Presentation Day - OCTOBER 24:
Technical presentations will be held over multiple half-day sessions.
Check later for more detailed agenda information for the various presentation sessions.

Seminar Day - OCTOBER 25:
Learn how GT-SUITE solves unique challenges in a wide range of applications including full vehicle modeling, battery simulation, virtual calibration, and more!

Scan the QR code or click the link
below to register for the event

https://www.gtisoft.com/event/gt-conference-2022-europe/

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