

GTTC 22

GT TECHNICAL CONFERENCE

AGENDA EUROPE

Presentation Day: Oct 24, 2022

Seminar Day: Oct 25, 2022



DAY 1 - MONDAY, OCTOBER 24 | Morning Session

07:45 REGISTRATION & COFFEE

08:30 **William Bécamel, RENAULT - Keynote address**

08:50 **Ivan Krajinović, RIMAC TECHNOLOGY - Always Going the Extra Mile -Keynote address**

09:10 POWERTECH - Development of a 1D Multi-Physics PHEV model for Thermal and Energy Management Optimization

09:30 GAMMA TECHNOLOGIES - TBA

10:20 **Break**

AM SESSION I

AM SESSION II

AM SESSION III

AM SESSION IV

11:00 Development of the Fuel Cell Systems for Maritime Applications using LNG as a Fuel

Freudenberg Fuel Cell e-Power Systems GmbH
Speaker TBA

A numerical platform to design thermal comfort solutions

Vedecom
Speaker TBA

3D-MBD Simulation model of the DuoCam

Rheinmetall
Speaker TBA

H2 ICE: Air system Concepts for the Heavy Duty Application

Robert Bosch GmbH
Speaker TBA

11:20 !Preliminary! Fuel Cell System Simulation in Heavy Duty

Mahle International
Speaker TBA

A System-level Model for the Prediction of Electric Drive Unit Thermal Performance

Rimac Technology
Speaker TBA

The Improvement of Cranktrain Bearings Simulation Methodology

Liebherr Components Colmar
Speaker TBA

GT-POWER-xRT in SiL and HiL Testing for Combustion Engines

Scania
Speaker TBA

11:40 Hydrogen Recirculation System Optimization for a PEM Fuel Cell

Symbio
Speaker TBA

Battery Pack Cooling

Volvo AB
Speaker TBA

New Approach in Wastegate Turbo Kinematics

Garrett Motion
Speaker TBA

Calibration Optimization of a Dual Fuel (Diesel + Hydrogen) Engine Using GT-SUITE

Punch
Speaker TBA

12:00 Integration of Fuel Cells and Electrolysers in Powergrid Applications

Powercell Sweden AB
Speaker TBA

Thermal Management Focused on Fuel Cell Vehicle by GT-SUITE

Ariamis
Speaker TBA

Friction and Wear Assessment of Ultra-low Viscosity Oil Formulations Based on a Validated Elasto-hydrodynamic Simulation Model

Universidade de Vigo
Speaker TBA

Fuel EVAP System Design and Control Optimization via Integrated 1D Simulation to Tackle Future Emissions Standards

Renault
Speaker TBA

12:20 **LUNCH**

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



DAY 1 - MONDAY, OCTOBER 24 | Afternoon Session

	PM SESSION I	PM SESSION II	PM SESSION III	PM SESSION IV
13:45	<p>Identifying Key Aspects of Thermal Runaway Modelling for Lithium-ion Battery Cells using GT-AutoLion</p> <p>University Valencia Speaker TBA</p>	<p>Battery Pack Design with Immersive Cooling using GT-SUITE and GT-Converge</p> <p>Valeo Speaker TBA</p>	<p>Math – Rig – Road: Virtual Calibration of an Electric Rear Axle Installation using GT-SUITE</p> <p>CEVT/Infimotion Speaker TBA</p>	<p>Cryogenic Hydrogen Storage Simulation with GT-SUITE</p> <p>Faurecia Speaker TBA</p>
14:05	<p>Electrochemical Performance of Large Prismatic Cells</p> <p>Scania Speaker TBA</p>	<p>Thermal Simulation Workflow for High Performance Electric Motors</p> <p>BMW M Speaker TBA</p>	<p>Coupling a PLC with GT-SUITE Air Handling Unit Model</p> <p>ACTA Industrie Speaker TBA</p>	<p>Aspects on ICE Oil System GT-ISE Model accuracy - Volvo Engine Petrol VEP4 Gen 3</p> <p>Powertrain Engineering Sweden Speaker TBA</p>
14:25	<p>Aging Prediction Study, First-Time-Through with GT-AutoLion</p> <p>Ford Otosan Speaker TBA</p>	<p>Applying a General Cylindrical Element with Additional Thermal Resistance for Simplified Three-dimensional Thermal Modelling of Cylindrical Battery Cells</p> <p>Rimac Technology Speaker TBA</p>	<p>Development of a Virtual Test Rig for Advanced Thermal Management System for Battery Electric Vehicles</p> <p>Politecnico di Torino Speaker TBA</p>	<p>Enhancing a Matlab-based Scroll Simulation Tool with GT SUITE</p> <p>Obrist Engineering Speaker TBA</p>
14:45	REFRESHMENTS & EXHIBITION			
15:30	GT-Play Implementation and Roadmap for Spreading Simulation Information SANDEN			
15:50	Toshiba Rechargeable Battery "SCiBTM" Cell Model with GT-AutoLion TOSHIBA			
16:10	GAMMA TECHNOLOGIES - TBA			
17:00	GAMMA TECHNOLOGIES CLOSING REMARKS			
17:20	REFRESHMENTS & 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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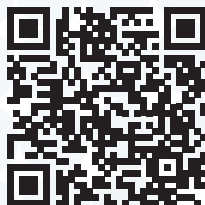
Presentation Day - OCTOBER 24:

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/>

