



Reimagine Mobility Conference and Exhibition 2024

Where Simulation Meets Engineering and Testing

AGENDA AT-A-GLANCE

Day One: April 23, 2024

8:30 am	Registration & Coffee	
8:50 am	Welcome Address Aaron Lock, Director of Advanced Simulation Technologies, AVL Mobility Technologies, Inc.	
9:00 am	Keynote Session: The Virtual Twin – Powered by AI Roland Wanker, Executive Vice President of Advanced Simulation Technologies, AVL List GmbH	
9:30 am	Keynote Session: SDV Development Reimagined Boris Scholl, General Manager and Partner Architect - Cloud & AI, Microsoft	
10:00 am	Keynote Session: Collaborative Research in the Automotive Industry Steve Przesmitzki, Executive Director - United States Council for Automotive Research (USCAR)	
10:30 am	Coffee Break & Expo	
	TECHNICAL BREAKOUT SESSIONS	
	E-Mobility	Thermal Management
11:00 am	NOVONIX UHPC: Powering Progress with Precision and Accuracy Connor Aiken, Senior Scientist, NOVONIX Battery Technology Solutions	Vehicle Thermal Calibration using ThermalLab Michael Bires, Product Line Manager Thermal Management, AVL List GmbH
11:30 am	AVL & TECO2030: Hydrogen Fuel Cell Systems Thomas Glatz, Technical Sales Specialist - Simulation, AVL Mobility Technologies, Inc.	Battery Thermal Runaway 3D Simulation Juergen Schneider, Senior Solution Manager Virtual Battery Dev., AVL List GmbH
12:00 pm	Modeling Impact of Drive Cycle on PEMFC Stack Performance Degradation Dr. Barathram Jayasankar, Diagnostic Specialist, Accelera by Cummins	Virtual Chip Test and Washer Simulation for Machining Chip Cleanliness Management Using Particle-Based CFD Sabrina Torcellini, Manufacturing Engineer, Ford Motor Company
12:30 pm	Lunch & Expo	
1:30 pm	Roundtable Discussions: Join the table and discussion that interests you most Preparing for Upcoming AEB Regulations • Influence of AI in the Vehicle Development Process • Hydrogen and Future Propulsion Systems • Holistic Development Based on Simulation • Future Trends in EV Battery Technology	
	TECHNICAL BREAKOUT SESSIONS	
	Automated and Connected Mobility	Vehicle Attributes
2:15 pm	Lightweight ADAS Simulation Platform Simon Terres, Solution Manager ADAS, AVL List GmbH	AI Concept Definition Murilo Del Rio Duarte, Technical Specialist - Vehicle Engineering, AVL Mobility Technologies, Inc.
2:45 pm	Clemson Open Connected and Automated Vehicles (Open-CAV) Dr. Venkat Krovi, Michelin SmartState Chair Professor of Vehicle Automation, Clemson University	Application of Machine Learning Damper Models on Full Vehicle Simulation Claudio Fernandes, Director of Engineering, Hitachi Astemo Americas
3:15 pm	Efficient Testing Methods for Achieving Full ODD Coverage David Bloice, Lead Engineer ADAS/AD Productive Tools, AVL List GmbH	Vehicle Soiling with PreonLab Oliver Knaus, Skill Team Leader, AVL List GmbH
4:00 pm	Afternoon Networking Session Please join us for a social networking opportunity with continued technical discussions, food, and drinks!	



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Day Two: April 24, 2024

8:45 am	Registration & Coffee	
9:10 am	Welcome Address Mick Winship, Chief Technology Officer, AVL Mobility Technologies, Inc.	
9:15 am	Keynote Session: Needs for a Seamless ADAS/AD Testing Workflow to Accelerate Test Performance Evan Lowe, Senior Business Development Representative, Hexagon Manufacturing Intelligence	
9:45 am	Panel Discussion: How Automotive will Change in the Face of AI Please join subject matter experts in examining the impact of AI trends, tools, and technologies on the mobility industry	
10:15 am	Coffee Break & Expo	
	TECHNICAL BREAKOUT SESSIONS	
	Power Electronics	Transmission & ePowertrain System
10:45 am	Accelerate Motor Drive Development with Speedgoat and AVL Test Solutions Steve Liu, Senior Application Engineer, Speedgoat, Inc.	Oil Lubrication using PreonLab Michael Brusoe, Senior CAE Engineer, Linamar
11:15 am	Thermal Analysis of Power Electronics Juergen Schneider, Senior Solution Manager Virtual Battery Dev., AVL List GmbH	Method for Root Bending Fatigue Life Prediction in Differential Gears and Validation with Hardware Tests Michael DeJack, Sr. Tech Specialist - Structural Analysis, AVL Mobility Technologies, Inc.
11:45 am	Inverter Pulse Width Modulation (PWM) Influence in E-Motor Acoustics Oliver Knaus, Skill Team Leader, AVL List GmbH	Accelerated ePT System Development & Integration Stefan Eder, Senior Product Manager Electrified Powertrain, AVL List GmbH
12:15 pm	Lunch & Expo	
	TECHNICAL BREAKOUT SESSIONS	
	E-Mobility	Durability and NVH
1:15 pm	End of Line Testing of Electric Vehicle Batteries Dr. Saeid Habibi, Chief Executive Officer, EECOMOBILITY	Comparing Spray Simulation and Flow Characteristics of Engine Combustion Network Spray G Injector Tip Thomas Castillo, Product Design Engineer, Hitachi Astemo Indiana
1:45 pm	Battery Health Monitoring Using Big Data Analytics Nikolaus Keuth, Department Manager, AVL List GmbH	Using an NVH Simulator to Listen to NVH Results with AVL EXCITE™ M Jeffrey Hodgkins, Senior Application Engineer, VI-GRADE
2:15 pm	Traditional to Startup Thermal System Development Lawrence Ziehr, Director of Thermal Systems, Scout Motors	Robust Optimization for E-Drive NVH Oliver Knaus, Skill Team Leader, AVL List GmbH
2:45 pm	Mobile Fuel Cell Testing Cart Chris Meszaros, Chief Engineer - Design, AVL Mobility Technologies, Inc.	Development Method to Predict Seizure of Idler Gear Bearing using AVL EXCITE™ Peter VanWieren, Sr. Tech. Specialist - Dynamics Analysis, AVL Mobility Technologies, Inc.
3:15 pm	Conference Close	