



# Reimagine Mobility Conference and Exhibition 2024

Where Simulation Meets Engineering and Testing

## AGENDA AT-A-GLANCE

### Day One: April 23, 2024

8:30 am	<b>Registration &amp; Coffee</b>	
8:50 am	<b>Welcome Address</b> Aaron Lock, Director of Advanced Simulation Technologies, AVL Mobility Technologies, Inc.	
9:00 am	<b>Keynote Session: The Virtual Twin – Powered by AI</b> Roland Wanker, Executive Vice President of Advanced Simulation Technologies, AVL List GmbH	
9:30 am	<b>Keynote Session: SDV Development Reimagined</b> Boris Scholl, General Manager and Partner Architect - Cloud & AI, Microsoft	
10:00 am	<b>Keynote Session: Collaborative Research in the Automotive Industry</b> Steve Przesmitzki, Executive Director - United States Council for Automotive Research (USCAR)	
10:30 am	<b>Coffee Break &amp; Expo</b>	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>E-Mobility</b>	<b>Thermal Management</b>
11:00 am	<b>NOVONIX UHPC: Powering Progress with Precision and Accuracy</b> Connor Aiken, Senior Scientist, NOVONIX Battery Technology Solutions	<b>Vehicle Thermal Calibration using ThermalLab</b> Michael Bires, Product Line Manager Thermal Management, AVL List GmbH
11:30 am	<b>AVL &amp; TECO2030: Hydrogen Fuel Cell Systems</b> Thomas Glatz, Technical Sales Specialist - Simulation, AVL Mobility Technologies, Inc.	<b>Traditional to Startup Thermal System Development</b> Lawrence Ziehr, Director of Thermal Systems, Scout Motors
12:00 pm	<b>Modeling Impact of Drive Cycle on PEMFC Stack Performance Degradation</b> Dr. Barathram Jayasankar, Diagnostic Specialist, Accelera by Cummins	<b>Virtual Chip Test and Washer Simulation for Machining Chip Cleanliness Management Using Particle-Based CFD</b> Sabrina Torcellini, Manufacturing Engineer, Ford Motor Company
12:30 pm	<b>Lunch &amp; Expo</b>	
1:30 pm	<b>Roundtable Discussions: Join the table and discussion that interests you most</b> 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	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>Automated and Connected Mobility</b>	<b>Vehicle Attributes</b>
2:15 pm	<b>Lightweight ADAS Simulation Platform</b> Simon Terres, Solution Manager ADAS, AVL List GmbH	<b>AI Concept Definition</b> Murilo Del Rio Duarte, Technical Specialist - Vehicle Engineering, AVL Mobility Technologies, Inc.
2:45 pm	<b>Clemson Open Connected and Automated Vehicles (Open-CAV)</b> Dr. Venkat Krovi, Michelin SmartState Chair Professor of Vehicle Automation, Clemson University	<b>Application of Machine Learning Damper Models on Full Vehicle Simulation</b> Claudio Fernandes, Director of Engineering, Hitachi Astemo Americas
3:15 pm	<b>Efficient Testing Methods for Achieving Full ODD Coverage</b> David Bloice, Lead Engineer ADAS/AD Productive Tools, AVL List GmbH	<b>Vehicle Soiling with PreonLab</b> Jens Cornelis, Managing Director, FIFTY2 Technologies GmbH
4:00 pm	<b>Afternoon Networking Session</b> Please join us for a social networking opportunity with continued technical discussions, food, and drinks!	



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## AGENDA AT-A-GLANCE

### Day Two: April 24, 2024

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

