



“Simulation In Mobility”



Conference 2023

## AGENDA AT-A-GLANCE

April 25-26, 2023 at The Suburban Collection Showcase - Novi, Michigan

### Day One: April 25, 2023

8:30 am	<b>Registration &amp; Coffee</b>	
9:00 am	<b>Welcome Address</b> Stephan Tarnutzer, AVL Mobility Technologies, Inc.	
9:15 am	<b>Virtual Twin: Driving the Sustainable Mobility</b> Roland Wanker, AVL List GmbH	
9:45 am	<b>Accelerating the Future - How Software Defined Vehicles are Revolutionizing Software Development and Validation</b> Harald Petschnik, AVL List GmbH	
10:15 am	<b>Title to be announced</b> Czarnecki Krzysztof, University of Waterloo	
10:45 am	<b>Coffee Break</b>	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>Fuel Cell Session</b>	<b>Durability &amp; NVH Session</b>
11:00 am	<b>Title to be announced</b>	<b>How to Achieve a Robust E-Axle Design with Simulation</b> Oliver Knaus, AVL List GmbH
11:30 am	<b>Title to be announced</b>	<b>Review of AVL EXCITE™ Recent Release</b> Brett Sheets, AVL Mobility Technologies, Inc.
12:00 pm	<b>Fuel Cell Modeling &amp; Parameterization, Real-Time Simulation and Validation on VTB</b> Anton Reiter, AVL List GmbH	<b>Validation Process for Crankshaft Stress and Fatigue Prediction</b> Mike DeJack, AVL Mobility Technologies, Inc.
12:30 pm	<b>Lunch</b>	
1:30 pm	<b>Panel Discussion</b> <b>Revolutionizing Mobility: Exploring the Role of Simulation in Shaping Future Transportation</b>	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>Battery Session</b>	<b>Vehicle Attributes Session</b>
2:15 pm	<b>Electrochemical Model for Assessing the Impact of AC on Battery Aging</b> Jeff Hendrix, TAE Technologies	<b>The Impact of the BEV Trend on Driveability Calibration and its Effect on Frontloading</b> Leopold Welsersheimb, AVL List GmbH
2:45 pm	<b>Jumpstart Your eVTOL Development Process Using Simulation</b> Gernot Maier, AVL List GmbH	<b>Virtual Calibration and Assessment of Driveability for Various Vehicle Configuration (ICE-PHEV-BEV-Passenger Car-Commercial Vehicles)</b> Jeremy Graf, AVL GmbH
3:15 pm	<b>Fast Charging in Practice - A Way to Get it Done with Batemo Cell Models in AVL CRUISE™ M</b> Adrian Schmidt, Batemo GmbH	<b>Protecting Passengers and Data: The Importance of a Consistent Process From Security Concept Definition to Penetration Testing</b> Juergen Wurzinger, AVL List GmbH
4:00 pm	<b>Afternoon Networking Session</b> Join us in the courtyard for a social networking opportunity with continued technical discussions, food, and drinks!	



*“Simulation In Mobility”*



Conference 2023

## AGENDA AT-A-GLANCE

April 25-26, 2023 at The Suburban Collection Showcase - Novi, Michigan

### Day Two: April 26, 2023

8:30 am	<b>Registration &amp; Coffee</b>	
9:00 am	<b>Welcome address</b>	
9:15 am	<b>Driving Innovation: The Path to Digital Transformation in Automotive Development</b> Bernardo Mendez, Rescale	
9:45 am	<b>Equipping Cyber Physical Manufacturing Workforce: Human Engagement in Collaborative Robot Programming</b> Kyoung-Yun Joseph Kim, Ph. D, Wayne State University	
10:15 am	<b>Coffee break</b>	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>Internal Combustion Engine Session</b>	<b>Transmission &amp; E-Drive Session</b>
10:30 am	<b>Simulation Supported Development of AVL Hydrogen Engine</b> Andrej Poredos, AVL List GmbH	<b>Radiated Noise for E-Drive</b> Raghu Kulkarni, Detroit Engineered Products
11:00 am	<b>Software in the Loop Calibration</b> Tom Howell, AVL Mobility Technologies, Inc.	<b>E-Axle Gear Noise Reduction</b> Brian McCaskey, AVL Mobility Technologies, Inc.
11:30 am	<b>Greenhouse Gas Emission Research</b> Ben Shade, AVL Test Systems, Inc.	<b>Predicting Transmission Oil Distribution and Churning Losses using PreonLab</b> Jun Li, AVL Mobility Technologies, Inc.
12:00 pm	<b>Lunch</b>	
1:00 pm	<b>Panel Discussion: The Next Frontier of Automotive Innovation: The Software Defined Vehicle</b>	
	<b>TECHNICAL BREAKOUT SESSIONS</b>	
	<b>ADAS/AD Session</b>	<b>Vehicle Simulation Session</b>
1:45 pm	<b>Maximizing the Productivity of Data Driven Development</b> Alison Lee, AVL Test Systems, Inc.	<b>Title to be announced</b> Markus Ihmsen, FIFTY2 Technology GmbH
2:15 pm	<b>Continuous Testing in Use-Case Driven SiL Cloud</b> Josko Balic, AVL List GmbH	<b>Title to be announced</b> Bijoy Paul, General Motors Corporation
2:45 pm	<b>Ontology Based Scenario Generation</b> Josh Orlando, AVL Mobility Technologies, Inc.	<b>Vehicle Model Factory – Building Virtual Prototypes from Road Measurements</b> Lucas Kira, AVL List GmbH
3:15 pm	<b>Conference Close</b>	