

## VEHICLE & ENVIRONMENT

THE 35th MOBILITY TREND CONFERENCE

JUNE 5, 2024 NETWORKING DINNER

Helmut List Halle Graz, Austria JUNE 6, 2024 CONFERENCE

Helmut List Halle Graz, Austria

#### **SUSTAINABILITY**

SUSTAINABLE SOLUTIONS ENVIRONMENTAL PROTECTION

#### **E-MOBILITY**

REDRAWING THE LINES OF ELECTRIFICATION

#### ADAS & E/E

AUTOMATED AND CONNECTED MOBILITY

#### **NEXT GENERATION VEHICLE**

ENGINEERING A BETTER FUTURE

### Foreword

The future of mobility is safe. It is inclusive. And it is climate neutral.



PROF. HELMUT LIST AVL List GmbH Chairman and CEO



PROF. DR. UWE DIETER GREBE

AVL List GmbH Executive Vice President Global Business Development, Sales and International Operations Light Duty Vehicles and Racing

Ain!

We are seeing a paradigm shift toward softwareoriented vehicle development. We are facing new legal framework conditions as well as the desire for exciting new features and modern, attractive design that responds to the customer on demand. Indeed, a total rethinking of society as a whole that requires a reorientation in our development processes.

Individual vehicle functions must be digitally mapped, rigorously tested, and understood in the overall context of all systems. Only by following this path can all members of society, including the aged and those with physical limitation, enjoy sustainable and affordable mobility that is cost and energy efficient for the producer.

Openness to new technologies is key to creating added value for society and the environment. We must look for solutions that create new degrees of freedom in design and engineering. And use those solutions, those innovations, where they have the greatest impact, the best relative efficiency and the most positive effect of the driver's experience. All on the road of Net Zero CO<sub>a</sub>.

In our industry the end user, the driver, the family on the road will always be at the center of our efforts. They deserve the best we can give.

With our conference we address tomorrow's challenges today. Please join us.

#### **Networking Dinner:**

**Facts** 

June 5, 2024 Available only in combination with the regular conference ticket.

#### Conference Date:

June 6, 2024

#### **Conference Venue:**

Helmut List Halle, Waagner-Biro-Straße 98a, 8020 Graz, Austria

#### Conference Office:

AVL List GmbH, Hans-List-Platz 1, 8020 Graz, Austria Tel.: +43 (316) 787 927 | E-Mail: event@avl.com

#### **Ticket Prices:**

Conference: € 1,300.- + 20 % tax Ticket price includes lunch, snacks and beverages

Conference + Networking Dinner: € 1,500.- + 20 % tax

#### Conference Language:

English

#### Participants:

Decision-makers from passenger car OEMs, system and component suppliers, engineering service providers, and trend setters of the global mobility market.

#### Arrival:

By plane: Airport Graz-Thalerhof By train: Graz Main Station By car: Free Parking

#### Hotel Reservation:

We have reserved rooms in selected hotels and made every effort to secure the best possible room rates for this event. For more information, please visit the conference website.

Subject to change without notice. Please visit www.avl.com/vehicle-environment for latest details.

# Exploring the Future of Mobility

Redefining Automotive Sustainability and Embracing a Greener Tomorrow

During this conference, we will focus on the key topics of Sustainability, E-Mobility, ADAS & E/E as well as Next Generation Vehicle – all with a shared mission to accelerate the transition to a more environmentally conscious transportation era. Join us to discover the future of mobility and make a collective stride towards a greener tomorrow.

TRENDING TOPIC STREAMS

4

KEYNOTES

30+

SPEAKERS

1.5 / 30

DAYS

HOUR

FULL OF CONTENT AND
NETWORKING OPPORTUNITIES

200
INTERNATIONAL PARTICIPANTS

## Networking Dinner June 5, with Ramon Vullings

"Ramon is an electrifying and passionate speaker. His talk on the topic of cross-industry innovation and creativity was one of the most well received talks at the NASA summit."

OMAR HATAMLEH
NASA. Chief Innovation Officer

#### **BIOGRAPHY**

Ramon Vullings is an engaging international keynote speaker, author of four management books focusing on business creativity and cross-sector innovation. He is also a cross-industry expert consultant & ideaDJ wowing audiences around the globe. Ramon talks about how to engage the outside world and why it's a smart strategy to recombine ideas across sectors.



RAMON VULLINGS

Speaker, Cross-Industry Expert & IdeaDJ

## Keynote Speakers



#### MATE RIMAC

Rimac Group, Founder and CEO

Opening Keynote Panel

#### **JOCHEN HERMANN**

Mercedes-AMG GmbH, CTO

Opening Keynote Panel

#### INGO SCHOLTEN

Aurobay Holding P.R.C, Alliances & Synergies, Vice President

Opening Keynote Panel



Please note that more keynote speakers for our event will be announced in due course. Stay tuned for further top keynote speakers. Find updates on

www.avl.com/vehicle-environment

## Closing Panel Discussion: The Future of Battery Electric Mobility

## Battery electric mobility has arrived in the mass market.

It is interesting and important to ask how batteries, electric motors, voltage levels, power electronics, operating strategies, and charging power will develop further. How can we bring the product cost down? And: How can Battery electric mobility be established in less developed areas of the world?

What about the alternatives, such as hybrids powered by renewable fuels and hydrogen in fuel cells or combustion engines? What changes in power generation, the electric grid, and energy storage are needed? Additionally, what role will global energy trade and the need for temporary storage of solar and wind energy play in the future availability of renewable, climate-neutral fuels?

We would like to discuss all of this, not just with the panelists but also with you, the participants. Look forward to an interesting interactive discussion with important insights at the end of this special conference.



PROF. DR. PETER GUTZMER
Editor-in-Charge
ATZ/MTZ Group
Closing Panel Discussion Moderator



DENISE GRAY

DKTN Consulting, LLC.,
Industry Advisor and

Corporate Board of Director Member



VEHICLE & ENVIRONMENT

DR. OTMAR SCHARRER

ZF Friedrichshafen AG,
Senior Vice President R&D Division
Electrified Powertrain Technology



PROF. DR. ANDRÉ D. THESS
University of Stuttgart,
Institute for Building Energetics,
Thermotechnology and Energy Storage



NINA WINTERHOLLER
Dr. Ing. h.c. F. Porsche AG,
Head of Battery Mechanics

## Speakers



DR. MICHAEL BOECKL

Stellantis NV, Global Head of Battery Pack Engineering

•• The Maserati Granturismo High-Performance Battery and a Closer Look on Fast Charging



MARTIN BORNEMANN

Aptiv Services Deutschland GmbH, Vice President, Advanced Technology & Architecture

Open and Sustainable Vehicle E/E Architecture Design



DR. CHRISTOF HORN

Flexible & Scalable Computing Platforms

for Connected & Automated Vehicles of

Accenture Dienstleistungs GmbH, Global Lead SDV

Automotive Industry on its Way to the SDV
 Challenges, Opportunities & Trends



DR. DAVID BOTHE

Frontier Economics Ltd., Director

 Energy Infrastructure – An Important Ingredient for the Powertrain Transition



DR. DEREK C. JOHNSON

Solid Power, Inc., COO

Sulfide-Based Solid-State Batteries



LYNN HELEN CALDER

INEOS Automotive Ltd., CEO

• Grit, Rigour & Humour: How INEOS Launched a Global OEM and What Comes Next in a Radically Shifting Industry



SALAH HADI

Qualcomm Technologies, Inc.,

Vice President, Engineering

ANDERS KARLSSON

Zeekr Technology Europe AB, Head of ADAS/AD

Verification for Zeekr European Market



ANNA KRAJINSKA

European Federation for Transport and Environment, Policy Manager Vehicle Emissions & Air Quality

Transport & Environment: Delivering Affordable E-Mobility



ADRIAN OSTERMANN

FfE eV, Senior Research Associate and Project Manager

Project unIT-e<sup>2</sup>: A Heroe's Journey of Electromobility



ELISABETH KUCZMARSKI

VOLKSWAGEN AG, Head of ADAS/AD Systems Architecture, Safety and Security

Ochallenges on the Safe Way to an Autonomous Future



MARIO OSWALD

AVL List GmbH, Skill Team Leader Virtual Vehicle and Energy Management

Al-Powered Vehicle Concept Development



ROBERT LOKNER

Microsoft Deutschland GmbH, Director Automotive

Shaping the Future of Mobility: The Rise of Software-Defined Vehicles



MONICA PEREZ LOBO

Toyota Motor Europe NV, Vice President

ESG Implementation at Toyota Motor Europe



PRAKASH RAO MALATHKAR

Mahindra & Mahindra Ltd., Principal Chief Engineer, Powertrain

Mahindra's New BEV Propulsion Systems on the Path to Sustainable and Affordable E-Mobility



#### MARTIN PETER

Magna Steyr Fahrzeugtechnik GmbH & Co KG, Vice President Engineering & Technology

Oar of the Future

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## Speakers



KRISTOF POLMANS

thyssenkrupp Presta AG, Senior Vice President Research and Advanced Engineering

 X-Bv-Wire Technology and the Future Chassis



DR. LEA SCHWARZ

AUDI AG. Head of Development Functions/ Features Driving and Energy

 Sustainable Motorsport - From Vision to Reality



NICOLAS RACQUET,

Ampere SAS. Vice President. Ampere Vehicle & PWT - Components

• Key Ingredients of an Affordable EV



DR. PAUL SPURK

Umicore AG & Co. KG, Regional Manager Applied Technologies EU & NA

Sustainability in LIB Cathode Active Material Development



DR. JOHANNES RICHENHAGEN

DR. ROLAND SARGENTI

Verification Energy and Hybrid/

Vehicle Validation Challenges

Combustion Systems

Dr. Ing. h.c. F. Porsche AG. Director

FEV.io GmbH, Managing Director

Leveraging Generative-Al in Software-Defined Vehicles



#### PROF. DR. KARL W. STEININGER

University of Graz, Director Wegener Center for Climate and Global Change

Climate & Carbon Tax



#### DR. FELIX TEUFEL

EnBW Energie Baden-Württemberg AG, Manager Strategy E-Mobility

Building Germany's Future-Proof Fast



Charging Network



**JOCHEN TÜTING** 

Chery Europe GmbH, Managing Director

Delta Engineering - Vehicle Adaptation from CN to EU



#### **EELCO VAN DER ENDEN**

Global Reporting Initiative (GRI),

ESG Standards Towards Impact-Focused Corporate Sustainability Reporting



#### GEORG OTTO VON FALCK

AVL List GmbH, Deputy Skill Area Manager Design & Industrialization

Trade-off Between Costs and CO. Reduction in the Life-Cycle



#### RACHEL WHITE

Ricardo Plc., Global President Clean Energy and Environmental Solutions

The Future of Sustainability in the Automotive Sector



Please note that more speakers for our event will be announced in due course. Stay tuned for further top speakers. Find updates on

www.avl.com/vehicle-environment

## Core Topics and Streams 2024





ECO-FRIENDLY SOLUTIONS PROTECTING THE ENVIRONMENT

Jointly we will explore several key areas that are redefining the landscape of modern industry. We will look at ESG (Environmental, Social, and Governance) regulations and their impact, examining the consequences of these new rules on the automotive sector.

Moreover, we will deep-dive into the circular economy, a systemic approach to economic development designed to create a balance between business, society, and the environment. In addition, we will assess the lifecycle footprint, and discuss the concept of sustainability in the supply chain. Another topic is Carbon Taxation, a critical tool for reducing greenhouse gas emissions.

Let's explore together the complex world of sustainability and find out how the automotive industry can operate not only economically, but also in an environmentally friendly and responsible manner.



REDRAWING THE LINES OF ELECTRIFICATION

In all our ambitions for sustainable transportation, e-mobility represents a new era shaped by efficiency, sustainability, and innovation. This stream addresses key challenges in scaling up e-mobility from various perspectives. We will highlight the urgent need and approaches for more affordable electric propulsion solutions. Additionally, we will examine the requirements for charging infrastructure, which are crucial for ease of use and broad accessibility.

Join us on this exciting journey as we explore the potential of e-mobility and its power to revolutionize transportation as we know it.



AUTOMATED AND CONNECTED MOBILITY

Automated and Connected Mobility marks a significant shift in our industry. In this stream, we will focus on Software Defined Vehicles (SDV), Virtual Verification and Validation (V&V), E/E Architecture and System Integration, Human-Machine Interface (HMI) and User Experience, as well as Connectivity.

Software-defined functionalities have become the key game changer. Virtual V&V ensures the safety and reliability of these vehicles through rigorous testing and validation in simulated environments. E/E Architecture and System Integration involve the design and integration of electric and electronic systems to orchestrate the various functionalities of the vehicle seamlessly.

HMI and User Experience is about creating intuitive and engaging interfaces for users to interact with the vehicle and its systems. Lastly, Connectivity is the cornerstone of this revolution, enabling real-time communication between vehicles, infrastructure, and other road users.

Take part as we explore these exciting aspects of Automated and Connected Mobility, set to redefine the future of transportation.



ENGINEERING A BETTER FUTURE

In the Next Generation Vehicle stream, we explore the future of mobility by pushing the limits of technology and innovation. With fresh perspectives, we cover three essential topics:

Firstly, the Functional Development of complete vehicles is a key innovation strategy that underlines the need for a holistic and cross-disciplinary approach to vehicle development based on vehicle functions

Secondly, the Chassis and Driving Functions of complete vehicles are a domain that emphasizes synchronizing various vehicular components to ensure optimal performance and balanced vehicles for end-consumers.

Lastly, we explore Thermal Management and HVAC, a field dedicated to creating efficient vehicle systems that optimally regulate temperature and ventilation, thereby ensuring superior comfort and performance.

Join us as we embark on this journey into the world of Next Generation Vehicles and their potential to redefine the automotive landscape.

# Vehicle & Environment Conference

Get ready to be a part of the show!

This conference promises an immersive and interactive experience that will keep you engaged from start to finish. Don't just attend, become a participant and make the most out of it!

All parallel sessions will be held in the same conference venue.

Immerse yourself in our new "silent conference" concept, enriched with interactive Q&A sessions, insightful discussions, impulse talks, and presentations. By using our comfortable headphones, you can easily switch between our four different topic streams.

This year's Vehicle & Environment conference offers the most captivating and engaging presentation styles.

Let's together embrace a greener tomorrow as we embark on a new era of Sustainability, E-Mobility, ADAS & E/E and Next Generation Vehicle.

## The Formats





#### Speech

This timeless presentation format offers a wealth of information in just 15 to 20 minutes. Following the presentation, a Q&A session provides an opportunity for further discussion and clarification.



## Discussion and Reflection

This format encourages spontaneous discussions and enables in-depth exploration of the topic. Feel free to ask questions, provide fresh perspectives to our speakers, and listen to their reflections on the most crucial aspects.

## Program





JUNE 5, 2024

#### **Networking Dinner**

4:30 PM Registration and Reception

5:45 PM Official Welcome to Vehicle & Environment 2024

PM Networking Dinner

featuring Keynote Speaker Ramon Vullings

10:00 PM End of the Evening

JUNE 6, 2024

#### Conference

7:30 AM Registration

Business and Networking Breakfast

9:00 AM Official Welcome to Vehicle & Environment 2024

9:15 AM **Opening Keynote Panel** 

Mate Rimac Rimac Group, Founder and CEO
Jochen Hermann Mercedes-AMG GmbH, CTO
Ingo Scholten Aurobay Holding P.R.C, Alliances &

Synergies, Vice President

10:15 AM Coffee Break





2:00 PM PARALLEL AFTERNOON SESSIONS		
Sustainability	Climate, Carbon Taxation and ESG	
E-Mobility	Affordable E-Mobility Solutions	
Next Generation Vehicle	Next Generation Vehicle	
ADAS & E/E	Product and Process Solutions for Tomorrow's E/E and AD Systems	

:45 PM	Coffee Break
:00 PM	Closing Panel Discussion
:50 PM	Closing of Vehicle & Environment 2024
:00 PM	End of the Conference

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June 6, 2024 / Vehicle & Environment / Conference

MORNING SESSION Session Chair: DOMINIK FRAN TREEO		HOW TO ACHIEVE SUSTAINABILIT	TY IN THE LIFE-CYCLE OF A VEHICLE?
10:45 AM - 11:55 AM	Speech 15 min. each	DR. LEA SCHWARZ AUDI AG, Head of Development Functions/Features Driving and Energy	Sustainable Motorsport – From Vision to Reality
	casii	DR. DAVID BOTHE Frontier Economics Ltd., Director	Energy Infrastructure – An Important Ingredient for the Powertrain Transition
		DR. PAUL SPURK Umicore AG & Co. KG, Regional Manager Applied Technologies EU & NA	Sustainability in LIB Cathode Active Material Development
		GEORG OTTO VON FALCK AVL List GmbH, Deputy Skill Area Manager Design & Industrialization	Trade-off Between Costs and ${\rm CO_2}$ Reduction in the Life-Cycle
11:55 AM - 12:25 PM	Discussion 30 min.	with all speakers	
AFTERNOON SES Session Chair: DOMINIK FRAN TREEO		CLIMATE, CARBON TAXATION AN	ND ESG
2:00 PM - 3:10 PM	Speech 15 min. each	PROF. DR. KARL W. STEININGER University of Graz, Director Wegener Center for Climate and Global Change	Climate & Carbon Tax
		EELCO VAN DER ENDEN Global Reporting Initiative (GRI), CEO	ESG Standards Towards Impact-Focused Corporate Sustainability Reporting
		MONICA PEREZ LOBO Toyota Motor Europe NV, Vice President	ESG Implementation at Toyota Motor Europe
		RACHEL WHITE Ricardo Plc., Global President Clean Energy and Environmental Solutions	The Future of Sustainability in the Automotive Sector
3:10 PM - 3:40 PM	Discussion 30 min.	with all speakers	

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June 6, 2024 / Vehicle & Environment / Conference

#### MORNING SESSION

Session Chair: PROF. DR. CHRISTIAN BEIDL

Technical University of Darmstadt, Institute for Internal Combustion Engines and Powertrain Systems

10:45 AM - 11:55 AM

11:55 AM - 12:25 PM



#### CHARGING AND INFRASTRUCTURE

Building Germany's Future-Proof Fast Charging DR. FELIX TEUFEL EnBW Energie Baden-Württemberg AG, Network Manager Strategy E-Mobility

ADRIAN OSTERMANN Project unIT-e2: A Heroe's Journey FfE eV, Senior Research Associate and Project Manager of Flectromobility

DR. MICHAEL BOECKL The Maserati Granturismo High-Performance Battery

Stellantis NV, Global Head of Battery Pack Engineering and a Closer Look on Fast Charging

Discussion 30 min.

#### with all speakers

#### **AFTERNOON SESSION**

Session Chair: PROF. DR. CHRISTIAN BEIDL

Technical University of Darmstadt, Institute for Internal Combustion Engines and Powertrain Systems

2:00 PM - 3:10 PM



#### AFFORDABLE E-MOBILITY SOLUTIONS

Transport & Environment: ANNA KRAJINSKA Delivering Affordable E-Mobility European Federation for Transport and Environment. Policy Manager Vehicle Emissions & Air Quality

DR. DEREK C. JOHNSON Sulfide-Based Solid-State Batteries Solid Power, Inc., COO

PRAKASH RAO MALATHKAR Mahindra's New BEV Propulsion Systems on the Path Mahindra & Mahindra Ltd, Principal Chief Engineer, to Sustainable and Affordable E-Mobility Powertrain

Key Ingredients of an Affordable EV NICOLAS RACQUET Ampere SAS, Vice President,

Ampere Vehicle & PWT - Components

with all speakers

3:10 PM - 3:40 PM



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June 6, 2024 / Vehicle & Environment / Conference

MORNING SESSION Session Chair: PROF. DR. GIORGIO RIZZONI The Ohio State University, Center for Automotive Research		SOFTWARE DEFINED VEHICLE – ARCHITECTURE TECHNOLOGY TRENDS AND CHALLENGES		
10:45 AM - 11:55 AM	Speech 15 min.	<b>DR. CHRISTOF HORN</b> Accenture Dienstleistungs GmbH, Global Lead SDV	Automotive Industry on its Way to the SDV – Challenges, Opportunities & Trends	
	each	MARTIN BORNEMANN Aptiv Services Deutschland GmbH, Vice President, Advanced Technology & Architecture	Open and Sustainable Vehicle E/E Architecture Design	
		ROBERT LOKNER Microsoft Deutschland GmbH, Director Automotive	Shaping the Future of Mobility: The Rise of Software-Defined Vehicles	
		DR. JOHANNES RICHENHAGEN FEV.io GmbH, Managing Director	Leveraging Generative-Al in Software-Defined Vehicles	
11:55 AM - 12:25 PM	Discussion 30 min.	with all speakers		
AFTERNOON SES Session Chair: PROF. DR. GIOF The Ohio State U Center for Autor	RGIO RIZZONI Jniversity,	PRODUCT AND PROCESS SOLUTI FOR TOMORROW'S E/E AND AD S		
2:00 PM - 3:10 PM	Speech 20 min. each	ELISABETH KUCZMARSKI VOLKSWAGEN AG, Head of ADAS/AD Systems Architecture, Safety and Security	Challenges on the Safe Way to an Autonomous Future	
		SALAH HADI Qualcomm Technologies, Inc., Vice President, Engineering	Flexible & Scalable Computing Platforms for Connected & Automated Vehicles of the Future	
		ANDERS KARLSSON Zeekr Technology Europe AB, Head of ADAS/AD	Verification for Zeekr European Market	
3:10 PM - 3:40 PM	Discussion 30 min.	with all speakers		



June 6, 2024 / Vehicle & Environment / Conference

Al-Powered Vehicle Concept Development

MORNING SESSION Session Chair: PROF. DR. PETER FISCHER Graz University of Technology, Institute of Automotive Engineering		EU MARKET ENTRY, X-BY-WIRE AND AI	
10:45 AM - 11:55 AM	Speech 20 min. each	JOCHEN TÜTING Chery Europe GmbH, Managing Director	Delta Engineering - Vehicle Adaptation from CN to EU
	each	KRISTOF POLMANS thyssenkrupp Presta AG, Senior Vice President Research	X-By-Wire Technology and the Future Chassis

AVL List GmbH, Skill Team Leader Virtual Vehicle and

11:55 AM - 12:25 PM



Discussion 30 min.

Energy Management
with all speakers

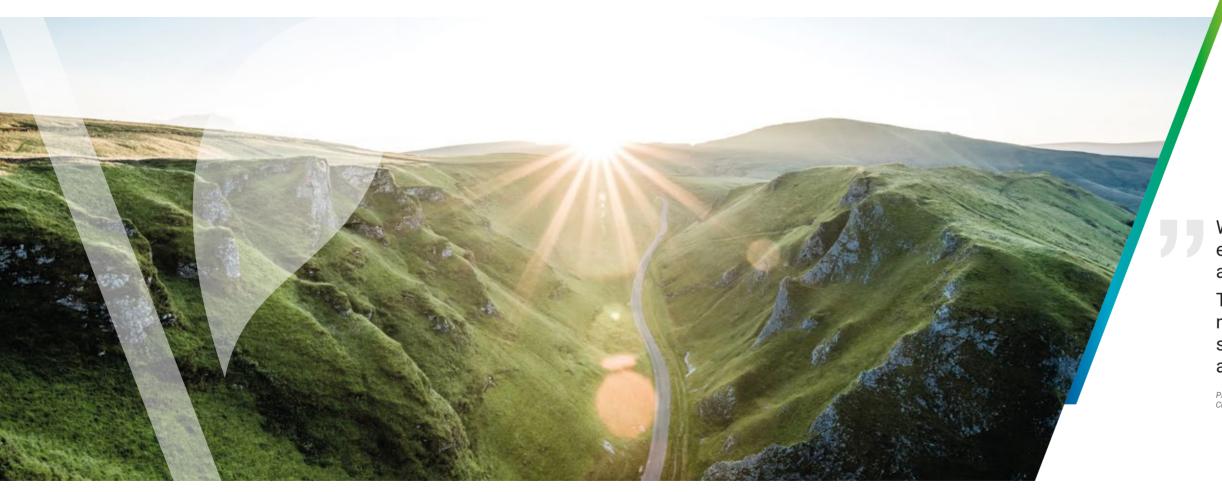
and Advanced Engineering

MARIO OSWALD

AFTERNOON SES Session Chair: PROF. DR. PET Graz University Institute of Auto	ER FISCHER	NEXT GENERATION VEHICLE	
2:00 PM - 3:10 PM	Speech 20 min. each	DR. ROLAND SARGENTI Dr. Ing. h.c. F. Porsche AG, Director Verification Energy and Hybrid/Combustion Systems	Vehicle Validation Challenges
		LYNN HELEN CALDER INEOS Automotive Ltd., CEO	Grit, Rigour & Humour: How INEOS Launched a Global OEM and What Comes Next in a Radically Shifting Industry
		MARTIN PETER Magna Steyr Fahrzeugtechnik GmbH & Co KG, Vice President Engineering & Technology	Car of the Future
3:10 PM - 3:40 PM	Disquesion	with all speakers	

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We are driven by a passion to examine the science, mechanics and philosophy of movement.

To help create a world that is climate-neutral and one that makes safe, comfortable, green mobility a reality for everyone.

PROF. HELMUT LIST Chairman and CEO, AVL List GmbH



JUNE 5, 2024 NETWORKING DINNER

Helmut List Halle Graz, Austria JUNE 6, 2024 CONFERENCE

Helmut List Halle Graz, Austria



#### **Networking Dinner**

#### JUNE 5, 2024

With a limited number of tickets available, we guarantee an intimate and engaging evening, offering you the perfect opportunity to connect and network with speakers and other participants alike.

#### Conference

#### JUNE 6, 2024

Secure your seat and join us for an exciting journey through the world of Vehicle & Environment. Expect an impressive line-up of international and renowned speakers from the automotive industry.

#### TICKETS

ТҮРЕ	REGULAR	
Conference	<b>€ 1,300</b> Feb 11-Jun 3, 2024	Register now and save your seat
Conference + Networking Dinner	50 tickets  € 1,500  available from Nov 1, 2023 onwards	



## Reimagining Motion

For a greener, safer, better world of mobility.

**AVL List GmbH** 

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www.avl.com/vehicle-environment











Classification Public