

AVL



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

A handwritten signature in black ink, appearing to be 'H. List'.

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 CO₂.

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.



**PROF. DR.
UWE DIETER GREBE**
AVL List GmbH
Executive Vice President Global Business
Development, Sales and International
Operations Light Duty Vehicles and Racing

A handwritten signature in black ink, appearing to be 'U. Grebe'.

Facts

Networking Dinner:

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:

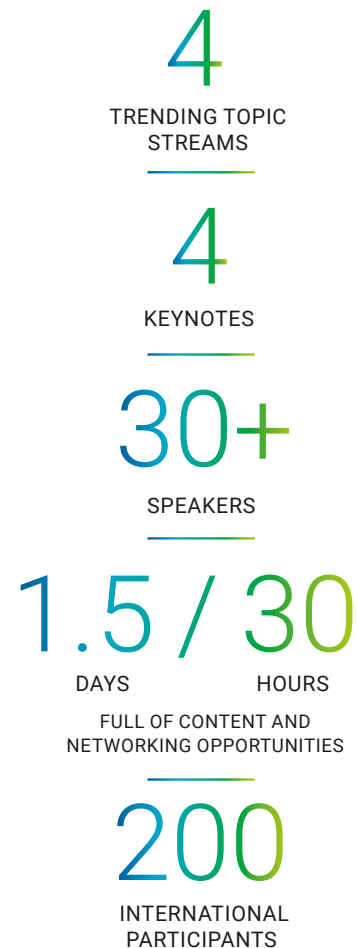
We have reserved rooms in selected hotels and
made every effort to secure the best possible
room rates for this event. For more information,
please visit the conference website.

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.



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 key-note 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.



SOME REFERENCES



RAMON VULLINGS

Speaker, Cross-Industry Expert & IdeaDJ

Keynote Speakers



MATE RIMAC

Rimac Group,
Founder and CEO

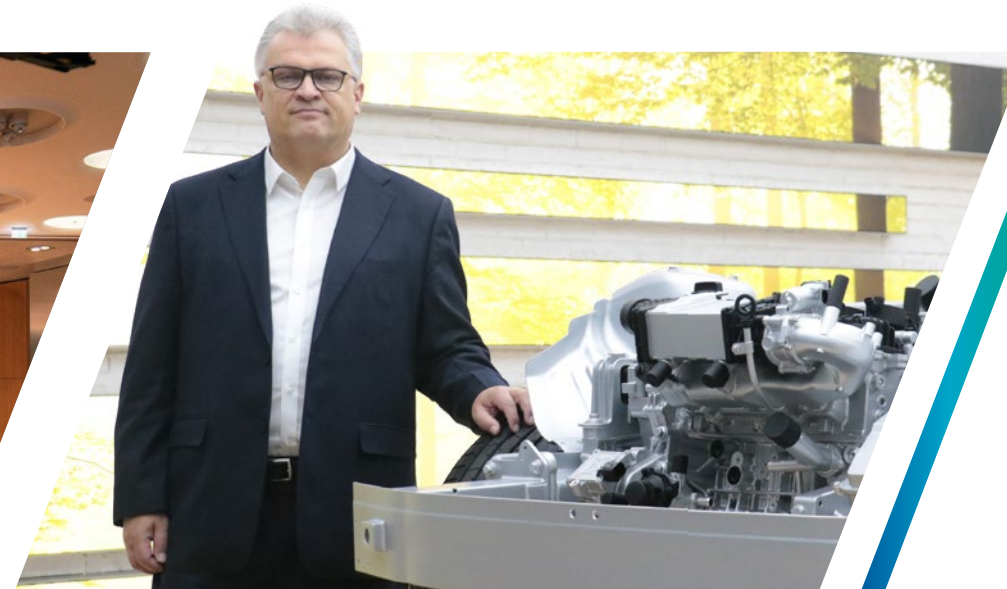
» Opening Keynote Panel



JOCHEN HERMANN

Mercedes-AMG GmbH,
CTO

» Opening Keynote Panel



INGO SCHOLTEN

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

» Opening Keynote Panel

Info

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



PROF. DR. ANDRÉ D. THESS

University of Stuttgart,
Institute for Building Energetics,
Thermotechnology and Energy Storage



DR. OTMAR SCHARRER

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



NINA WINTERHOLLER

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

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

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



SALAH HADI

Qualcomm Technologies, Inc., Vice President, Engineering

“Flexible & Scalable Computing Platforms for Connected & Automated Vehicles of the Future



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-e²: A Heroe's Journey of Electromobility



MARTIN BORNEMANN

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

“Open and Sustainable Vehicle E/E Architecture Design



DR. CHRISTOF HORN

Accenture Dienstleistungs GmbH, Global Lead SDV

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



ELISABETH KUCZMARSKI

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

“Challenges on the Safe Way to an Autonomous Future



MARIO OSWALD

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

“AI-Powered Vehicle Concept Development



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



ROBERT LOKNER

Microsoft Deutschland GmbH, Director Automotive

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



MONICA PEREZ LOBO

Toyota Motor Europe, Vice President Corporate Affairs & Sustainability

“ESG Implementation at Toyota Motor Europe



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



ANDERS KARLSSON

Zeekr Technology Europe AB, Head of ADAS/AD

“Verification for Zeekr European Market



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

“Car of the Future

Speakers



KRISTOF POLMANS

thyssenkrupp Presta AG,
Senior Vice President Research
and Advanced Engineering

“ X-By-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



JOCHEN TÜTING

Chery Europe GmbH, Managing Director

“ Delta Engineering - Vehicle Adaptation
from CN to EU



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



EELCO VAN DER ENDEN

Global Reporting Initiative (GRI),
CEO

“ ESG Standards Towards Impact-Focused
Corporate Sustainability Reporting



DR. JOHANNES RICHENHAGEN

FEV.io GmbH, Managing Director

“ Leveraging Generative-AI in
Software-Defined Vehicles



PROF. DR. KARL W. STEININGER

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

“ Climate & Carbon Tax



GEORG OTTO VON FALCK

AVL List GmbH, Deputy Skill Area Manager
Design & Industrialization

“ Trade-off Between Costs and CO₂
Reduction in the Life-Cycle



DR. ROLAND SARGENTI

Dr. Ing. h.c. F. Porsche AG, Director
Verification Energy and Hybrid/
Combustion Systems

“ Vehicle Validation Challenges



DR. FELIX TEUFEL

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

“ Building Germany's Future-Proof Fast
Charging Network



RACHEL WHITE

Ricardo Plc., Global President Clean
Energy and Environmental Solutions

“ The Future of Sustainability in the
Automotive Sector

Info

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



SUSTAINABILITY

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.



E-MOBILITY

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.



ADAS & E/E

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.



**VEHICLE &
ENVIRONMENT**



NEXT GENERATION VEHICLE

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**
- 6:00 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** 

| 10:45 AM PARALLEL MORNING SESSIONS | |
|------------------------------------|--|
| Sustainability | How to Achieve It in the Life-Cycle of a Vehicle? |
| E-Mobility | Charging and Infrastructure |
| ADAS & E/E | Software Defined Vehicle – Architecture Technology Trends and Challenges |
| Next Generation Vehicle | EU Market Entry, X-by-Wire and AI |



12:30 PM **Lunch 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 |


3:45 PM **Coffee Break** 

- 4:00 PM Closing Panel Discussion
- 4:50 PM Closing of Vehicle & Environment 2024
- 5:00 PM End of the Conference



MORNING SESSIONSession Chair: **DOMINIK FRANZISKUS OCHS**
TREEO**HOW TO ACHIEVE SUSTAINABILITY 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 |
| | | 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 CO ₂ Reduction in the Life-Cycle |
| 11:55 AM – 12:25 PM |  Discussion 30 min. | with all speakers | |



AFTERNOON SESSIONSession Chair: **DOMINIK FRANZISKUS OCHS**
TREEO**CLIMATE, CARBON TAXATION AND 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, Vice President Corporate Affairs & Sustainability | 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 | |

Subject to change without notice. Please visit www.avl.com/vehicle-environment for latest details.**MORNING SESSION**Session Chair: **PROF. DR. CHRISTIAN BEIDL**
Technical University of Darmstadt, Institute for Internal Combustion Engines and Powertrain Systems**CHARGING AND INFRASTRUCTURE**

| | | | |
|---------------------|--|---|--|
| 10:45 AM – 11:55 AM |  Speech 20 min. each | DR. FELIX TEUFEL EnBW Energie Baden-Württemberg AG, Manager Strategy E-Mobility | Building Germany's Future-Proof Fast Charging Network |
| | | ADRIAN OSTERMANN Ffe eV, Senior Research Associate and Project Manager | Project uniT-e²: A Heroe's Journey of Electromobility |
| | | DR. MICHAEL BOECKL Stellantis NV, Global Head of Battery Pack Engineering | The Maserati Granturismo High-Performance Battery and a Closer Look on Fast Charging |
| 11:55 AM – 12:25 PM |  Discussion 30 min. | with all speakers | |

AFTERNOON SESSIONSession Chair: **PROF. DR. CHRISTIAN BEIDL**
Technical University of Darmstadt, Institute for Internal Combustion Engines and Powertrain Systems**AFFORDABLE E-MOBILITY SOLUTIONS**

| | | | |
|-------------------|--|--|--|
| 2:00 PM – 3:10 PM |  Speech 15 min. each | ANNA KRAJINSKA European Federation for Transport and Environment, Policy Manager Vehicle Emissions & Air Quality | Transport & Environment: Delivering Affordable E-Mobility |
| | | DR. DEREK C. JOHNSON Solid Power, Inc., COO | Sulfide-Based Solid-State Batteries |
| | | 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 |
| | | NICOLAS RACQUET Ampere SAS, Vice President, Ampere Vehicle & PWT – Components | Key Ingredients of an Affordable EV |
| 3:10 PM – 3:40 PM |  Discussion 30 min. | with all speakers | |

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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



DR. CHRISTOF HORN
Accenture Dienstleistungs GmbH, Global Lead SDV

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

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-AI in Software-Defined
Vehicles

with all speakers

11:55 AM – 12:25 PM


AFTERNOON SESSION

Session Chair: **PROF. DR. GIORGIO RIZZONI**
The Ohio State University,
Center for Automotive Research

**PRODUCT AND PROCESS SOLUTIONS
FOR TOMORROW'S E/E AND AD SYSTEMS**

2:00 PM – 3:10 PM



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

with all speakers

3:10 PM – 3:40 PM


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



KRISTOF POLMANS
thyssenkrupp Presta AG, Senior Vice President Research
and Advanced Engineering

X-By-Wire Technology and the Future Chassis

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

AI-Powered Vehicle Concept Development

DR. ROLAND SARGENTI
Dr. Ing. h.c. F. Porsche AG, Director Verification Energy
and Hybrid/Combustion Systems

Vehicle Validation Challenges

with all speakers

11:55 AM – 12:25 PM


AFTERNOON SESSION

Session Chair: **PROF. DR. PETER FISCHER**
Graz University of Technology,
Institute of Automotive Engineering

NEXT GENERATION VEHICLE

2:00 PM – 3:10 PM



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

JOCHEN TÜTING
Chery Europe GmbH, Managing Director

Delta Engineering - Vehicle Adaptation from CN to EU

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

Car of the Future

with all speakers

3:10 PM – 3:40 PM





”

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
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Graz, Austria

Tickets

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

| TYPE | REGULAR |
|-----------------------------------|--|
| Conference | € 1,300.- Feb 11 – Jun 3, 2024 |
| Conference + Networking Dinner | <div>50 tickets</div> € 1,500.- available from Nov 1, 2023 onwards |

Register
now and **save**
your seat

Reimagining Motion

For a greener, safer, better world of mobility.

AVL List GmbH

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Classification Public