

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
Chairman and CEO
AVL

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

We are seeing a paradigm shift toward software-oriented 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 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
Executive Vice President Global Business
Development, Sales and International
Operations Light Duty Vehicles and Racing
AVL

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

Facts

Event Date:
June 6, 2024

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

Conference Venue:
Waagner-Biro-Straße 98a, A-8020 Graz

Conference Office:
AVL List GmbH, Hans-List-Platz 1, A-8020 Graz
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

For details, please visit www.avl.com/vehicle-environment

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: Graz-Thalerhof
By train: Graz Main Station
By car: Free Parking available

Hotel Reservation:
AVL has blocked rooms at designated host hotels and has made every effort to secure the best possible room rate for you at this event. For more information please visit the conference website.

Exploring the Future of Mobility

Redefining Automotive Sustainability and Embracing a Greener Tomorrow

During this event, we'll dive into the key topics of E-Mobility, Automated and Connected Mobility (ADAS/AD), Electric and Electronics (E/E), Next Generation Vehicle in light of the major perspective of automotive sustainability. These discussion points are set to redefine the landscape of the automotive industry and accelerate our drive towards a more environmentally conscious era of transportation. Join us to discover the future of mobility and make a collective stride towards a greener tomorrow.

4

TRENDING TOPIC STREAMS

5

KEYNOTES

28

SPEAKERS

1.5 / 30

DAYS HOURS

FULL OF CONTENT AND NETWORKING OPPORTUNITIES

200

INTERNATIONAL PARTICIPANTS

Networking Evening June 5, with Ramon Vullings

„Ramon is an electrifying and passionate speaker, his talk on the topic of cross-industry innovation & creativity was one of the most well received talks at the NASA summit.”

Omar Hatamleh, Chief Innovation Officer – NASA

BIOGRAPHY

Ramon Vullings is an engaging international keynote speaker, author of 4 management books on business creativity and cross-sector innovation, Ramon is also a cross-industry expert consultant & ideaDJ wowing audiences around the globe. Ramon speaks about bringing the outside world in and why remixing of ideas cross-sector is a smart strategy.



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,
Member of Executive Board – CTO

🔊 [Opening Keynote Panel](#)



INGO SCHOLTEN

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

🔊 [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

Core Topics and Streams 2024



SUSTAINABILITY

SUSTAINABLE SOLUTIONS – ENVIRONMENTAL PROTECTION

In this event stream of sustainability we will explore multiple vital areas that are redefining the landscape of modern industry. We cover ESG (Environmental, Social, and Governance) regulation and impacts, examining consequences of these new rules on the automotive sector. Further, we will deep-dive into the circular economy, a systemic approach to economic development designed to balance businesses, society, and the environment. In the context of sustainability, we will also assess the lifecycle footprint, and of course we will discuss the sustainability in the supply chain. Another subject is carbon taxation, a critical tool for reducing greenhouse gas emissions. Together, we will navigate the complex world of sustainability, uncovering how the automotive industry can operate in a manner that is not merely profitable, but also green and responsible.



E-MOBILITY

REDRAWING THE LINES OF ELECTRIFICATION

In our quest for sustainable transportation, E-Mobility represents a new era of mobility that is shaped by efficiency, sustainability and innovation. This event stream covers some of the key challenges in scaling up E-Mobility from different perspectives. We will shed light on the pressing need and approaches for more affordable electric propulsion solutions. In addition, we will discuss charging requirements and infrastructure, which is crucial in facilitating ease of use and wide-scale accessibility. Join us on this exciting journey as we explore the potential of E-Mobility and its ability to revolutionize transportation as we know it.



ADAS & E/E

AUTOMATED AND CONNECTED MOBILITY

Autonomous and connected mobility marks a significant shift in our industry. In this event stream, we focus on software defined vehicles, 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. The E/E architecture and system integration involves the design and integration of electric and electronic systems to orchestrate the various functionalities of the vehicle seamlessly. HMI/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. Join us as we dive into these exciting aspects of autonomous and connected mobility, set to redefine the future of transportation.



NEXT GENERATION VEHICLE

ENGINEERING A BETTER FUTURE

In the stream of next generation vehicles, we discuss the future of mobility, pushing the limits of technology and innovation. In this fresh perspective, we explore three essential topics. Firstly, functional development of complete vehicles, a critical strategy in innovation, highlights the need for a holistic and cross-disciplinary approach to vehicle development, based on vehicle functions. Secondly, chassis and driving functions of complete vehicles. A domain that focuses on the synchronization of various vehicular components to ensure optimal performance and balanced vehicles for end-consumers. Lastly, we delve into thermal- and HVAC management. This area is all about 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

Vehicle & Environment Event

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, utilizing the "silent conference" format. With the aid of comfortable headphones, you can effortlessly switch between sessions at the touch of a button. Adjust the volume to your preference and participate by posing questions through the microphone.

Gone are the days of changing rooms between sessions. Simply navigate our interactive conference venue, find a seat, and immerse yourself in the session of your choosing.

Moreover, we customize the presentation format to suit the topic at hand. Whether it's a traditional presentation, interactive Q&A sessions, or 30-minute insightful discussions sparked by impulse talks, this year's Vehicle & Environment event offers the most captivating and engaging presentation styles.

To help you navigate through the sessions effortlessly, we use icons to guide you towards the format that resonates with you.

The Formats



Speech

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



Q&A

This is your chance to address your most urgent concerns. Don't hesitate, go ahead and ask right away. Q&A sessions are typically scheduled 10 minutes following traditional presentation formats.



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.

Agenda



JUNE 5, 2024 Networking Evening

- 4:30 PM Registration Opens
- 5:45 PM **Welcome to Vehicle & Environment 2024**
- 6:00 PM **Networking Dinner with Keynote by Ramon Vullings**
- 10:00 PM Closing

JUNE 6, 2024 Conference

- 7:30 AM Registration Opens
- 8:00 AM Business and Networking Breakfast
- 9:00 AM **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 Vice President, Aurobay Holding P.R.C, Alliances & Synergies

10:15 AM **Break**

10:45 AM PARALLEL MORNING SESSIONS

E-Mobility	Charging and Infrastructure
Next Generation Vehicle	Thermal Management, Chassis and AI
ADAS & E/E	Software Defined Vehicle – Architecture Technology Trends & Challenges
Sustainability	How to Achieve It in the Life-Cycle of a Vehicle



12:30 PM **Lunch**

2:00 PM PARALLEL AFTERNOON SESSIONS

E-Mobility	Affordable E-Mobility Solutions
Next Generation Vehicle	Next Generation Vehicle
ADAS & E/E	Product & Process Solutions for Tomorrow's EE & AD Systems
Sustainability	Climate, Carbon Taxation and ESG

03:45 PM **Break**

- 04:00 PM Closing Keynote Panel
- 04:50 PM Closing of Vehicle & Environment 2024
- 05:00 PM End

MORNING SESSION

Session Chair: **Prof. Dr. CHRISTIAN BEIDL**

CHARGING AND INFRASTRUCTURE

10:45 AM – 11:55 AM



Speech
20 min.
each

Dr. FELIX TEUFEL
EnBW, mobility+, Manager Strategy E-Mobility

Building Germany's Future-Proof Fast Charging Network

ADRIAN OSTERMANN
FfE, Senior Research Associate and Project Manager

Project uniT-e²: A Heroe's Journey of Electromobility

Dr. MICHAEL BOECKL
Stellantis, 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 SESSION

Session Chair: **Prof. Dr. CHRISTIAN BEIDL**

AFFORDABLE E-MOBILITY SOLUTIONS

02:00 PM – 03:10 PM



Speech
15 min.
each

ANNA KRAJINSKA
European Federation for Transport and Environment,
Policy Manager Vehicle Emissions & Air Quality of ADAS/AD

Transport & Environment: Delivering Affordable E-Mobility

DEREK C. JOHNSON
Solid Power, Inc., COO

Sulfide-Based Solid-State Batteries

PRAKASH RAO MALATHKAR
Mahindra, Head of e-PT

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

03:10 PM – 03:40 PM



Discussion
30 min.

with all speakers

MORNING SESSION

Session Chair: **Prof. Dr. PETER FISCHER**

THERMAL MANAGEMENT, CHASSIS AND AI

10:45 AM – 11:55 AM



Speech
20 min.
each

To be announced

To be announced

KRISTOF POLMANS
thyssenkrupp Steering, 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

11:55 AM – 12:25 PM



Discussion
30 min.

with all speakers

AFTERNOON SESSION

Session Chair: **Prof. Dr. PETER FISCHER**

NEXT GENERATION VEHICLE

02:00 PM – 03:10 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, CEO

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

MARTIN PETER
Magna Steyr Fahrzeugtechnik,
Vice President Engineering & Technology

Car of the Future

03:10 PM – 03:40 PM



Discussion
30 min.

with all speakers

MORNING SESSION

 Session Chair: **Prof. Dr. GIORGIO RIZZONI**
SOFTWARE DEFINED VEHICLE – ARCHITECTURE TECHNOLOGY TRENDS & CHALLENGES

10:45 AM – 11:55 AM


RICKY HUDI
 FMT – Future Mobility Technologies GmbH, CEO

 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 Corp, Director Automotive

 Shaping the Future of Mobility: The Rise of SDV
 For ADAS/AD Applications

11:55 AM – 12:25 PM


with all speakers
AFTERNOON SESSION

 Session Chair: **Prof. Dr. GIORGIO RIZZONI**
PRODUCT & PROCESS SOLUTIONS FOR TOMORROW'S EE & AD SYSTEMS

02:00 PM – 03:10 PM


To be announced

To be announced

SALAH HADI
 Qualcomm Technologies, Inc., Vice President, Engineering

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

ANDERS KARLSSON
 CEVT AB, Head of ADAS/AD

ADAS Verification for EU Market

03:10 PM – 03:40 PM


with all speakers
MORNING SESSION

 Session Chair: **DOMINIK OCHS**
HOW TO ACHIEVE SUSTAINABILITY IN THE LIFE-CYCLE OF A VEHICLE?

10:45 AM – 11:55 AM


Dr. LEA SCHWARZ
 AUDI AG, Head of Development Functions/Features Driving
 and Energy

Sustainable Motorsport – From Vision to Reality

Dr. DAVID BOTHE
 Frontier Economics, Director

 Energy Infrastructure - An Important Ingredient for
 the Powertrain Transition

PAUL SPURK
 Umicore

Lilon Battery Cathode Material

GEORG OTTO VON FALCK
 AVL List GmbH, Deputy Skill Area Manager
 Design & Industrialization

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

11:55 AM – 12:25 PM


with all speakers
AFTERNOON SESSION

 Session Chair: **DOMINIK OCHS**
CLIMATE, CARBON TAXATION AND ESG

02:00 PM – 03:10 PM


Prof. Dr. KARL W. STEININGER
 University Graz, University Professor and Director Wegener
 Center for Climate and Global Change

Climate & Carbon Tax

EELCO VAN DER ENDEN
 Global Reporting Initiative (GRI), Chief Executive Officer

 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

Corporate Sustainability

03:10 PM – 03:40 PM


with all speakers

Speakers



DR. MICHAEL BOECKL
Stellantis, 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 of ADAS/AD

“ *Transport & Environment:
Delivering Affordable E-Mobility* ”



ADRIAN OSTERMANN
FfE, Senior Research Associate
and Project Manager

“ *Project uniTe?: A Hero's Journey
of Electromobility* ”



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

“ *Open and Sustainable Vehicle E/E
Architecture Design* ”



RICKY HUDL
FMT – Future Mobility Technologies GmbH,
CEO

“ *Automotive Industry on its Way to the
Software Defined Vehicle – Challenges,
Opportunities, Trends* ”



MONICA PEREZ LOBO
Toyota Motor Europe NV,
Vice President

“ *ESG Implementation at Toyota Motor Europe* ”



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

“ *AI-Powered Vehicle Concept Development* ”



DR. DAVID BOTHE
Frontier Economics, Director

“ *Energy Infrastructure – An Important
Ingredient for the Powertrain Transition* ”



DEREK C. JOHNSON
Solid Power, Inc., COO

“ *Sulfide-Based Solid-State Batteries* ”



ROBERT LOKNER
Microsoft Corp, Director Automotive

“ *Shaping the future of Mobility: The Rise of
SDV for ADAS/AD Applications* ”



MARTIN PETER
Magna Steyr Fahrzeugtechnik,
Vice President Engineering & Technology

“ *Car of the Future* ”



LYNN HELEN CALDER
INEOS AUTOMOTIVE, CEO

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



ANDERS KARLSSON
CEVT AB, Head of ADAS/AD

“ *ADAS Verification for EU Market* ”



PRAKASH RAO MALATHKAR
Mahindra, Head of e-PT

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



KRISTOF POLMANS
thyssenkrupp Steering, Senior Vice
President Research and Advanced
Engineering

“ *X-By-Wire Technology and the Future
Chassis* ”

Speakers



NICOLAS RACQUET,

Ampere SAS, Vice President,
Ampere Vehicle & PWT – Components

🔑 *Key Ingredients of an Affordable EV*



PROF. DR. KARL W. STEININGER

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

🔑 *Climate & Carbon Tax*



RACHEL WHITE

Ricardo

🔑 *Corporate Sustainability*



Dr. ROLAND SARGENTI

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

🔑 *Vehicle Validation Challenges*



DR. FELIX TEUFEL

EnBW mobility+,
Manager Strategy E-Mobility

🔑 *Building Germany's Future-Proof Fast
Charging Network*



DR. LEA SCHWARZ

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

🔑 *Sustainable Motorsport – From Vision
to Reality*



EELCO VAN DER ENDEN

Global Reporting Initiative (GRI),
Chief Executive Officer

🔑 *ESG Standards Towards Impact-Focused
Corporate Sustainability Reporting*



PAUL SPURK

Umicore

🔑 *Lilon Battery Cathode Material*



GEORG OTTO VON FALCK

AVL, Deputy Skill Area Manager
Design & Industrialization

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

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JUNE 5, 2024
NETWORKING DINNER

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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 on June 6. We have limited availability offered in three purchasing phases. Don't miss out on this exclusive experience!

TICKETS

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

Register
now and save
your seat

Reimagining Motion

For a greener, safer, better world of mobility.

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