



34

AACHEN  
COLLOQUIUM  
SUSTAINABLE MOBILITY

**OCTOBER  
6TH – 8TH, 2025**

**PROGRAM BOOKLET**

Eurogress Aachen  
**GERMANY**

**FEV**

tme | cmp

**RWTHAACHEN  
UNIVERSITY**

**fka**

**ika**

**RWTHAACHEN  
UNIVERSITY**

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# FOREWORD BY THE SCIENTIFIC DIRECTORS



**UNIV.-PROF. DR.-ING.  
LUTZ ECKSTEIN**

ika, RWTH Aachen University

**UNIV.-PROF. DR.-ING.  
STEFAN PISCHINGER**

tme, RWTH Aachen University

The automotive industry is undergoing a dynamic technological change. Engineers, developers and decision-makers are tackling complex challenges – from electrification and next-gen battery systems to software-defined vehicle architectures, intelligent energy management and increasing levels of automation. The need to innovate has never been greater and with rising pressure from evolving regulations, user expectations and sustainability goals, the pace of transformation keeps accelerating.

Innovative powertrain solutions like electric drives, fuel cells and hydrogen engines are being explored simultaneously, while battery technology, charging infrastructure and range improvements remain key to the future of BEVs. At the same time, intelligent energy and thermal management systems are essential to optimize efficiency and performance across vehicle platforms. Another major driver is the increasing role of software – not only in connectivity and infotainment, but also in safety functions like advanced driver assistance, cybersecurity and automated vehicle control. The rise of AI and data-driven development is reshaping how we design, validate, operate and update vehicles.

In this landscape of rapid change, the **Aachen Colloquium Sustainable Mobility** serves as a vital platform to exchange ideas, present breakthrough and align on strategies that will shape the mobility of tomorrow:

We proudly present an exciting mix of high-profile **keynotes** and over **80 technical presentations** covering a wide range of topics such as Strategy, E-Drive, Battery, ADAS, Software-defined Vehicles, ICE and more. For the first time, we are inviting you to a **start-up panel discussion** to create a lively space for fresh ideas and groundbreaking innovations in addition to the **start-up turbo talks and exhibition area**. After last year's great success, our unique **driving event in real road traffic** will return, offering hands-on experience with cutting-edge technologies. As always, **networking** remains at the heart of our event and we are looking forward to the **traditional banquet** – because only together can we drive sustainable mobility forward!



# FOREWORD BY THE LORD MAYOR



**SIBYLLE KEUPEN**

Lord Mayor of the City of  
Aachen

Welcome to the **34th Aachen Colloquium Sustainable Mobility!**

Dear experts, innovators, researchers and visionaries, It is my great pleasure to welcome you once again to Aachen, a city that has always been a hub of progress and innovation.

In its 34th edition, this colloquium has brought together brilliant minds to shape the future of mobility. And in 2025, the challenge is clearer than ever: sustainable, intelligent, and efficient transportation solutions for a changing world.

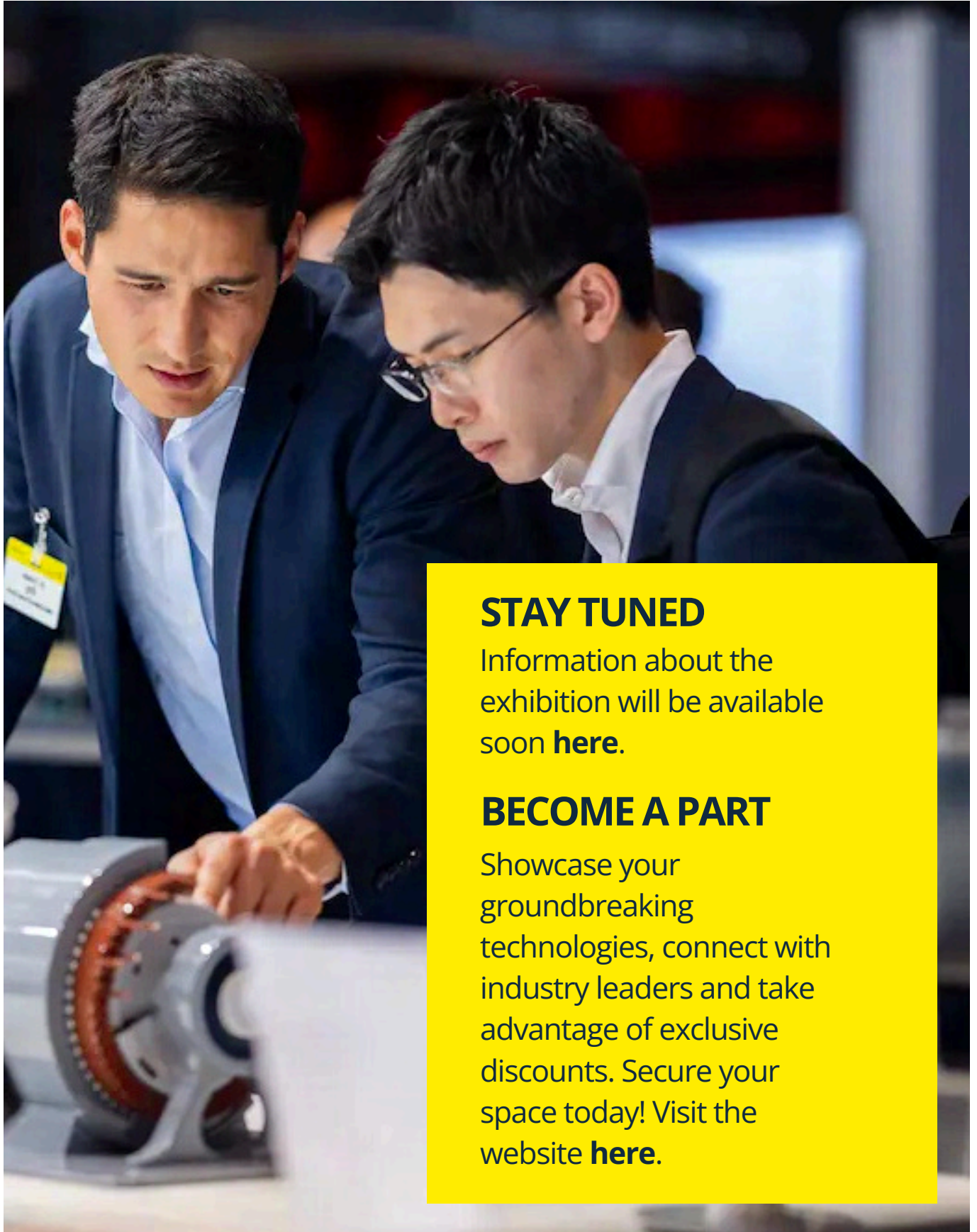
With **over 80 expert talks**, an **impressive exhibition** - including a vibrant **startup area**- and hands-on **driving experiences**, this event is not just about discussing the future. It's about creating it. The presence of top executives, pioneering startups, and leading researchers underscores the global impact of your work.

Aachen is proud to host this **dynamic exchange** of ideas. Beyond the technical program, I invite you to experience the **unique spirit** of our city — whether during **networking sessions**, evening events in our **historic venues**, or simply through the inspiring atmosphere of this **international gathering**.

Enjoy an event full of innovation, collaboration, and new perspectives. Together, we are driving the change towards a more **sustainable future!**



# EXHIBITION INFORMATION



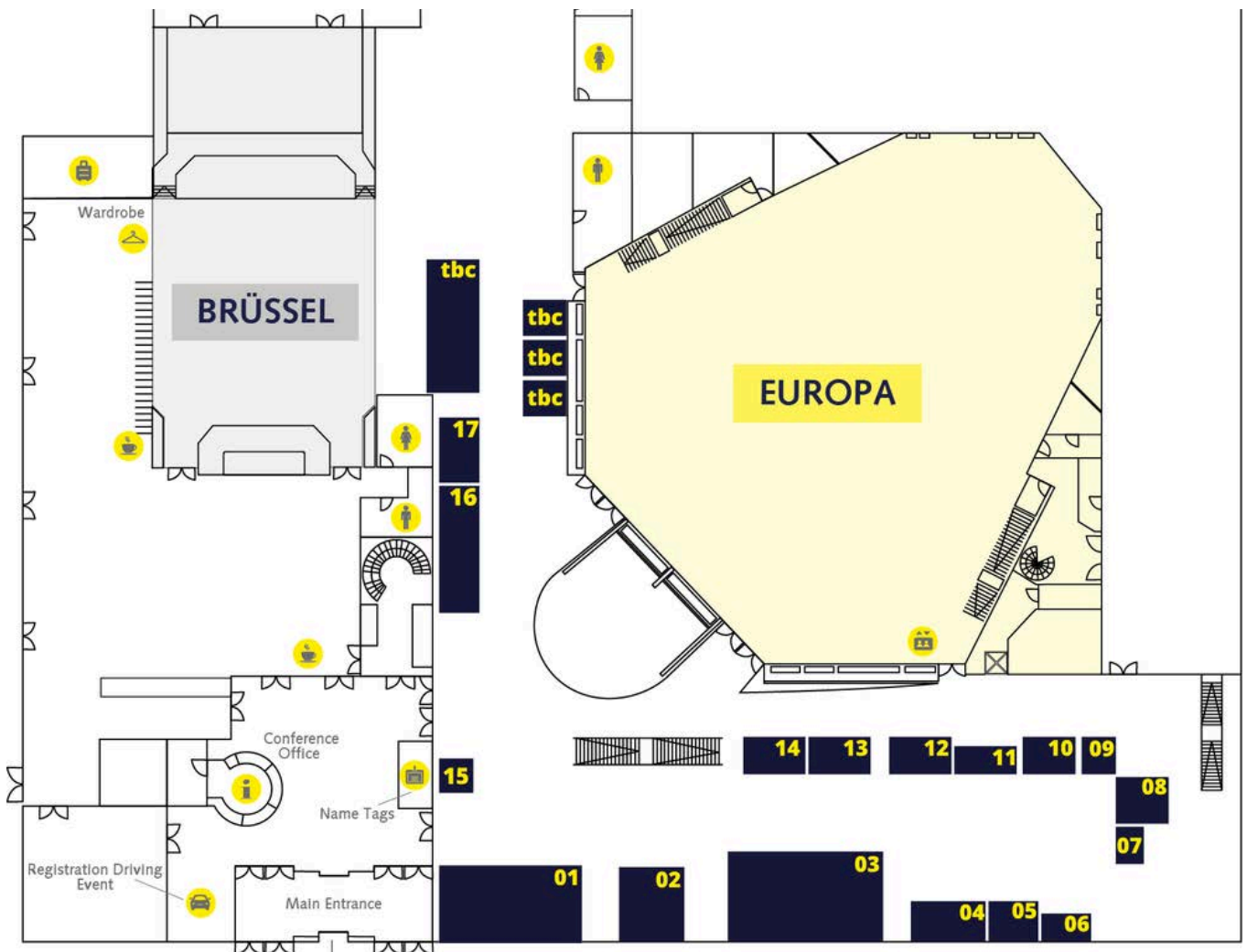
## STAY TUNED

Information about the exhibition will be available soon **here**.

## BECOME A PART

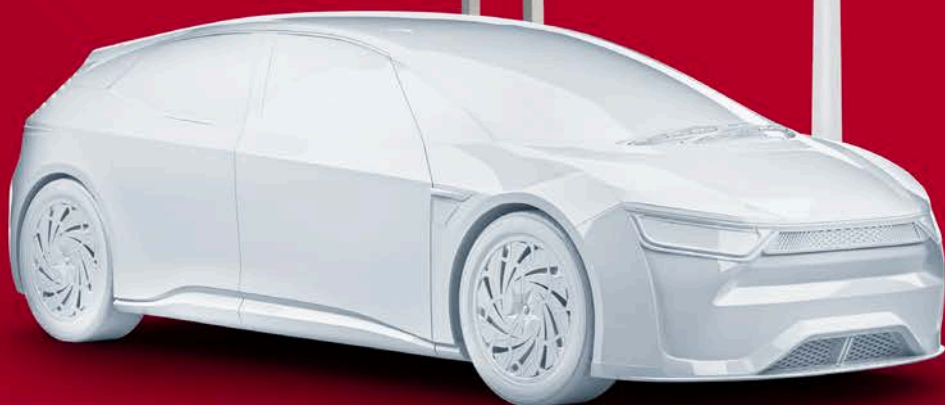
Showcase your groundbreaking technologies, connect with industry leaders and take advantage of exclusive discounts. Secure your space today! Visit the website **here**.

# EXHIBITION PLAN



<b>01</b>	fka	<b>07</b>	800 Volt	<b>13</b>	ACTech
<b>02</b>	Denso	<b>08</b>	Wattical	<b>14</b>	SEi Automotive
<b>03</b>	FEV	<b>09</b>	t.b.c.	<b>15</b>	Printen Klein
<b>04</b>	Ecurie Aix	<b>10</b>	eMoveUs	<b>16</b>	IAV
<b>05</b>	Ecogenium	<b>11</b>	Loge	<b>17</b>	t.b.c.
<b>06</b>	V-Hola	<b>12</b>	Freudenberg FST	<b>18</b>	t.b.c.

FEV



**We drive innovation to help the world evolve.**

We love technology. And we understand it deeply. This enables us to pioneer ideas and shape strategies that keep our clients, partners and our people ahead of the game. We do this by asking the right questions: why is it this way? How can it be better? Then we explore, challenge, test and learn – continually improving the solutions we implement and the ways we work together. This helps us develop world-class innovations within sustainable mobility, energy and software to power a better future and a greater quality of life for all.

feel evolution



# KEYNOTE SPEAKER

## EMILIO SCERVO



Emilio Scervo is a British-Italian engineer, holding a degree in Aerospace Engineering from Pisa University and an Executive MBA from SDA Bocconi in Milan. With a wealth of expertise spanning the aerospace and automotive luxury hypercar industries, Emilio has contributed to the development of iconic products, including the Ferrari 458, McLaren 720S, and McLaren Speedtail.

In 2021, Emilio assumed the role of Board Member and Chief Technology Officer at Bugatti Rimac, where he leads the development of groundbreaking hypercars for both Bugatti and Rimac. Under his strategic guidance, Emilio oversees the evolution of product portfolio of both esteemed brands. His visionary leadership and instrumental role in shaping the long-term strategy position Bugatti Rimac as the preminent hypercar company, poised to set new standards in the global automotive landscape.

Emilio has played a key role in the development of the Bugatti Tourbillon, Mistral, Bolide, as well as the Rimac Nevera and Nevera R – with many more revolutionary models still to come.

# KEYNOTE SPEAKER

# RAMASAMY VELUSAMY



**President of Automotive  
Technology & Product  
Development**

**Mahindra & Mahindra**

R. Velusamy is a seasoned automotive leader with over 28 years of experience. He has been instrumental in shaping Mahindra's vehicle development strategy and driving technological advancements across its Automotive product portfolio.

Joining Mahindra & Mahindra in 1996, Velusamy began his career in the powertrain division, where he led the development of the revolutionary MHawk engines, setting new industry standards for performance, efficiency, and durability.

His leadership has played a key role in the development and launch of Mahindra's most iconic vehicles, including the All-New Thar, XUV700, Scorpio-N, and the recent blockbusters XUV3XO and Thar Roxx, which have redefined their respective segments.

Velusamy is also the Joint Managing Director of Mahindra Electric Automobile Limited (MEAL) and spearheaded the development and launch of Mahindra's electric-origin SUV portfolio in November 2024, setting new benchmarks in the Indian automotive space.

Beyond his role in product development, he serves as the Chairman of Mahindra Racing UK and as a Director on the Board of PF Holding B.V. He also actively contributes to industry advancements as the Vice Chair of the Automotive Research Association of India's (ARAI) Governing Council, a Member of the Governing Board for the Centre for Advanced Automotive Research (CAAR), and the Chair of the CMVR Committee at SIAM, focusing on safety regulations.

Velusamy holds a B.Sc. from the University of Madras and a B.Tech in Automobile Engineering from Anna University, Chennai. He has further strengthened his leadership and strategic acumen through executive programs at Wharton Business School, Harvard University, and Michigan Ross School of Business.

# KEYNOTE SPEAKER

## JIAN WU



**President**

**GAC Research Institute**

Jian Wu, born in 1967, graduated from Tianjin University with a doctorate degree in power machinery and engineering.

He is currently a member of the Executive Committee of GAC Group and Deputy Director of the Independent Brand Management Committee, President of GAC Research Institute, Member of the Standing Committee of Guangdong Association for Science and Technology, Vice Chairman of the Society of Automotive Engineers of China, and Chairman of the Guangdong Society of Automotive Engineers.

With more than 30 years of experience in the automotive industry, he joined GAC Research Institute in May 2008, as the main technical leader and manager of GAC's independent R&D system. Moreover, He has accumulated rich experience in technical planning, product development, technology research and development, scientific and technological innovation and talent training. Moreover, he is committed to the research and development and innovation of core and key technologies of automobiles.

He has won the first prize of China Automobile Industry Science and Technology Award, the first prize of Science and Technology Award of China Internal Combustion Engine Society and other awards. The "Outstanding Scientific and Technological Talent Award of China Automotive Industry" and "Fellow" of the Society of Automotive Engineers of China, and the "Outstanding Contribution Award" of the Chinese Society of Internal Combustion Engines.



# START-UP PLENARY DISCUSSION



**SARAH FLEISCHER**

CEO & Co-Founder  
tozero

- Sarah Fleischer: CEO and Co-Founder of tozero GmbH – Europe's first start-up dedicated to lithium-ion battery recycling.
- Focused on circular value chains and low-emission processes to return critical raw materials back into the supply chain.



**MARCUS BEHRENDT**

Managing Partner  
BMW i Ventures

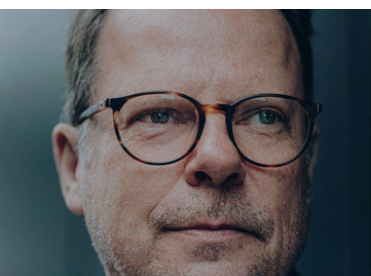
- Managing Partner at BMW i Ventures with deep expertise in automotive technology, venture capital, and scaling deep tech startups
- Supports founders in mobility, manufacturing, and AI-driven sectors, leveraging global corporate leadership and hands-on experience in fostering impactful collaborations between startups and established industry players



**KLAUS ENTENMANN**

Co-Founder & CCO  
ExpectedIT

- Co-Founder & CCO of ExpectedIT and former CEO of Daimler Financial Services, with extensive expertise in mobility finance and venture building.
- Advises early-stage companies on scaling and strategy, combining corporate leadership experience with a start-up-driven mindset.



**PETER MERTENS**

Executive Director  
Mertens VC

- Investor, advisor, and former CTO of Audi AG with decades of leadership experience in the global automotive industry.
- Supports mobility start-ups as a board member and strategic advisor, bridging the gap between corporate scale and start-up agility.

# CLOSING DISCUSSION



## GERRIT MARX

Chief Executive Officer

CNH Industrial

As CEO of CNH, he leads 40,000+ employees and oversees the Agriculture segment, driving global farming and construction solutions.

He brings 25+ years of leadership across McKinsey, Daimler, Volkswagen China, Bain Capital, and Iveco Group, where he advanced connectivity and alternative propulsion.

Gerrit Marx holds degrees in Mechanical Engineering, an MBA from RWTH Aachen, and a PhD from Cologne. His focus: transformation, value creation, and tech-driven change.



## CHRISTIAN OBERWINKLER

Chief Technology Officer

Kässbohrer Geländefahrzeug AG

Dr. Christian Oberwinkler has been CTO and board member at Kässbohrer Geländefahrzeug AG since March 2023, overseeing technology and production for vehicles in extreme environments.

Previously in leadership at Komptech, he focuses on sustainability, digitalization (including AI), and demographic change to ensure user-friendly, advanced, and future-ready products.

He holds a doctorate in engineering and promotes openness to technology, alternative drives, and AI, aligning innovation with efficiency, resource conservation, and climate goals.

# CONFERENCE AGENDA

EUROPA

BRÜSSEL

K1

K2

**Monday, October 6th, 2025**

18:00

Welcome Reception &  
Opening Exhibition

**Tuesday, October 7th, 2025**

08:30

Opening Plenary  
Session

10:45

Strategy I

E-Drive-Components

AI

Development  
Processes I

12:15

Lunch

13:30

Strategy II

E-Drive-Systems

Fuel Cells I

SdV

16:00

Turbo Talks -  
Start-Up Pitches

16:35

Vehicle & Mobility  
Concepts

Battery I

ADAS / DMS

Fuel Cells II

**Wednesday, October 8th, 2025**

08:15

ICE I

Battery II

Safety Assurance

Chassis - Active  
Components

10:15

HEV

Energy Carriers &  
Infrastructure

Real World  
Applications

Electric  
HD-Transport

12:15

Lunch

13:30

Plenary Discussion  
"Start-Ups in Mobility:  
Chances and Challenges"

15:00

ICE II

Thermal  
Management

Development  
Processes II

Chassis - Vehicle  
Dynamics

16:40

Closing Plenary  
Discussion



# TURBO TALKS

Attend our Turbo Talks, where young companies, startups and student initiatives present their innovative mobility solutions and bring fresh ideas to life.

## **Ecogenium e.V.**

Ecogenium is a multidisciplinary team of motivated students working in the area of hydrogen mobility with the goal to design and build a hydrogen fuel cell vehicle to race for efficiency at the annual Shell Eco-Marathon.

## **Ecurie Aix Formula Student Team RWTH Aachen e.V.**

Ecurie Aix is the Formula Student Team of RWTH Aachen University. Every year, the team builds a fully electric racing car and converts a vehicle of the previous year into an autonomous vehicle to compete on renowned racetracks.

## **eMoveUs GmbH**

eMoveUs provides solutions for electrical and electromechanical energy conversion systems in the drivetrain at the level of electronics hardware, software, electromagnetics, and mechanics, aiming to ensure efficient and sustainable mobility for all.

## **800 Volt Technologies**

800 Volt Technologies is the team behind PUMP, the iOS app for electric vehicle drivers which allows to connect the car, plan a trip and charge.

## **V-HOLA**

V-HOLA Labs develops energy efficiency solutions for electric vehicles, as their AI engine adeptly manages energy consumption, considering both the vehicle and driver.

## **VAIONIC**

VAIONIC develops modular, ironless axial flux motors and power electronics for efficient, compact, and sustainable electric drive systems—scalable from vehicles to aerospace and stationary applications.

## **Wattical Energon Tech GmbH**

Wattical Energon Tech GmbH is a high-tech leader in battery testing and energy storage solutions, with a strong commitment to deliver safe, reliable, and innovative products.

## **to be continued...**



# DOWNLOAD EVENT APP

## ALL INFORMATION AT YOUR FINGERTIPS

Make the most of your Aachen Colloquium experience with our official event app! Stay up to date with real-time schedule updates, speaker details, and session locations. Easily navigate the conference agenda, bookmark your favorite presentations, and receive important notifications – all in one place.

## NETWORKING & INTERACTIVE FEATURES

The event app is not just a digital program – it's your gateway to networking and engagement. Connect with fellow participants, ask speakers questions during sessions, and take part in live polls. The integrated chat function allows you to exchange ideas and schedule meetings with industry experts. Download the Aachen Colloquium event app now and enhance your conference experience!

# fka **ACK 25'**

## Booth Topics

- › LevelXData
- › Sensor Testing
- › Steer-by-Wire: Controllability
- › Hybrid Testing of Heavy-Duty Vehicles



Meet us!



CREATING IDEAS & **DRIVING INNOVATIONS**



# CONFERENCE SCHEDULE

## Welcome & Introduction to the 34th Colloquium

08:30



Univ.-Prof. Dr. rer. nat. Dr. h.c. mult  
**ULRICH RÜDIGER**  
Rector  
RWTH Aachen University



Univ.-Prof. Dr.-Ing  
**LUTZ ECKSTEIN**  
Institute Director  
ika, RWTH Aachen University



Univ.-Prof. Dr.-Ing  
**STEFAN PISCHINGER**  
Institute Director  
tme, RWTH Aachen University

## Opening Plenary Session

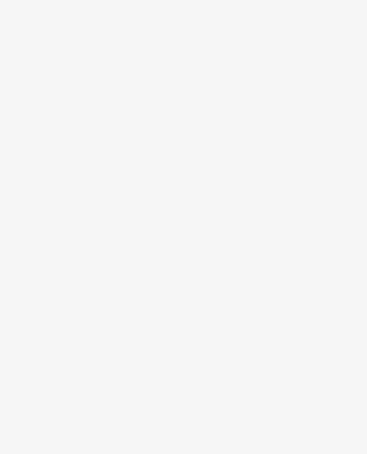
08:40



**EMILIO SCERVO**  
Chief Technology Officer  
Bugatti Rimac



**RAMASAMY VELUSAMY**  
President of Automotive  
Technology & Product  
Development  
Mahindra & Mahindra



**JIAN WU**  
President  
GAC Research Institute

# PRESENTATIONS

Tuesday, October 7th, 2025

10:45 - 11:15

11:15 - 11:45

11:45 - 12:15

## EUROPA

## BRÜSSEL

## K1

## K2

### Strategy I

Nikolai Ardey  
Volkswagen AG

### E-Drive-Components

Norbert Alt  
tme, RWTH Aachen University

### AI

Ralf G. Herrtwich  
NVIDIA Automotive Software

### Development Processes I

Steven Peters  
FZD, TU Darmstadt

### Global Light Vehicle Powertrain Outlook

W. Hossenally  
S&P Global

### From eDaily to S-eWay: Feature driven development of electrified commercial vehicles

A. Bernardini - Iveco Group  
P. Glusk, F. Richert - FEV

### Challenges for perception systems in autonomous agricultural machines

A. Schröder  
CLAAS E-Systems GmbH

### Rethinking Gears: From Idea to Virtual Assembly

U. Rütjes  
Hirschvogel Holding GmbH

### Last Man Standing Is No Solution

C. Koehler - H&Z Group  
J. Rückauf - Hirschvogel Group

### Designing for efficiency in high performance AFM powertrains

T. Hillman, R. Phillips, T. Woolmer  
YASA

### An MLOps Architecture for Automated Driving and Beyond

B. Lampe, L. Eckstein  
ika, RWTH Aachen University

### Functional Safety and AI: Opportunities and Challenges for the Automotive Domain

R. Adler  
Fraunhofer IESE

### ESG - Excellence in operations

A. Busse, M. Brandt  
fka GmbH / strato7

### Current leakage mitigation innovations & testing methodology for oil-cooled eAxles

A. Simonin  
SKF

### Industrial Vehicle Autonomy - technical and commercial dimensions of driver out applications

A. Wischnewski  
driveblocks

### Integration of System Engineering with a Compliance Agent

A. Lauringer, H. Yasko  
Kontrol

# PRESENTATIONS

Tuesday, October 7th, 2025

13:30 - 14:00

## EUROPA

### Strategy II

Max Brandt  
strato7

## BRÜSSEL

### E-Drive-Systems

Lutz Eckstein  
ika, RWTH Aachen University

## K1

### Fuel Cells I

Helmut Eichelseder  
TU Graz

## K2

### SdV

Stefan Kowalewski  
i11, RWTH Aachen University

14:00 - 14:30

### Making Europe Great Again – Perspectives to Regain the Competitive Position of Europe's Automotive Industry

W.-D. Hoppe, K. Schmitz  
Arthur D. Little

### Next-Generation Traction Drive with highly compact Multilevel Inverter Architecture for improved 800V vehicle efficiency

J. Deussen, A. Apelsmeier,  
P. David, L. Louco, K. Schten,  
A. Mayer, H. Nanjundaswamy  
BorgWarner

### Comparing Hydrogen Fuel Cell Engines and Hydrogen Internal Combustion Engines for Zero-Emission Heavy-Duty Vehicles

J. Masson  
Ballard Power Systems

### The Evolution of Software-Defined Vehicles: Technological and Organizational Transformation, and Ecosystem Dynamics

W. Said, R. Biurrun  
Porsche Consulting GmbH

14:30 - 15:00

### Navigating the Digital Revolution: Transforming R&D in the Automotive Sector

C.-S. Ernst, K. Thielemann  
Roland Berger GmbH

### The Electric Drive Platform Select – compact, magnet free and drag loss optimized solutions for “Boost Drives”

P. Wieske, W. Barth, O. Bayer,  
M. Berger, U. Niehaus, S. Stroph  
ZF Friedrichshafen AG

### Advancing Fuel Cell Drives: Enhancing Efficiency and Performance for Heavy-Duty Long-Haul Transport

M. Zubel, J. Blum, T. Braun,  
S. Hollnaicher, J. Köhler,  
N. Loughlan, N. Weidler  
cellcentric GmbH & Co. KG

### Advanced Product Development for SDV: Boosting competitiveness and speed

M. Engelhard  
FEV Consulting

15:00 - 15:30

### Chip shortage ahead: How to react

T. Schadt, N. Becht, C. Foltz  
PwC Strategy& (Germany) GmbH

### MMA: CLA with EQ Technology - Next Generation BEV by Mercedes-Benz

T. Stegmaier  
Mercedes-Benz AG

### Model-based fuel cell stack design and optimization

P. Eppe, J. Kraft, F. von Lehn,  
K. Wahl, N. Zsiga  
EKPO Fuelcell Technologies GmbH

### autotech.agil: Architectures and Tools for Future Mobility

C. Geller, R. van Kempen,  
L. Eckstein  
ika, RWTH Aachen University

### Humanoid Robotics: Potential or Hype for Automotive Suppliers?

R. Padovano, D. Boemer,  
B. Knobloch, A. Nase, H. Wegner  
FEV Consulting

### Next Battery Swapping: Accelerating Electrification in Medium-Duty Transport with Dual Battery Swapping for 12-18t Truck

S. Steinwascher  
GETEC Getriebe Technik GmbH

### Electrification in Mobility: Fuel Cell Vehicle

D. Kim  
Hyundai Motor Company

### Open-Source as a crucial factor for the implementation of SDV

T. Wooten  
Thinking Cars GmbH

# PRESENTATIONS

Tuesday, October 7th, 2025

16:00 - 16:30

EUROPA

BRÜSSEL

K1

K2

Turbo Talks -  
Start-Up Pitches

16:35 - 17:05

Vehicle & Mobility  
Concepts

Christian Enderle  
Esslingen University

Battery I

Stefan Pischinger  
tme, RWTH Aachen University

ADAS / DMS

Axel Gern  
Aeva

Fuel Cells II

Martin Nitsche  
FVV e.V

Unleashing the  
Potential of Data: How  
Data Helps Developing  
the Best Vehicles

O. Seifert  
Dr. Ing. h.c. F. Porsche AG

Driving a Healthier EV  
Industry: Breaking  
Through Battery  
Technology Barriers

C. Hsieh  
Prologium

Performance of LiDARs  
in adverse conditions:  
Results from the LPAC  
project

A. Sakpal, U. Kradepohl  
fka GmbH

Development trends  
for the next  
generation of BoP  
products

M. Wick, M. Becker  
Rheinmetall AG

17:05 - 17:35

Energy Management  
in Honda S+ Shift  
Control

Y. Ukai  
Honda Motor Co., Ltd.

Demonstrating recent  
Advances of Solid  
State Battery  
Technology

U. Keller, S. Bach, D. Bohrmann -  
Mercedes-Benz AG  
M. Stapelbroek - FEV

Challenges in Mass  
Processing of Open  
Road Data for  
Statistical Validation of  
AD/ADAS Systems

P. Krejčí, D. Aurélio, T. Kletečka  
Valeo

Titel t.b.c.

t.b.c.  
t.b.c.

17:35 - 18:05

V2G: Enabler of  
Mobility and Energy  
Transition

I. Drescher  
Volkswagen AG

AI vs. Model-Based  
Methods: The Future  
of State-of-Charge  
Estimation for Li-ion  
(LFP) Batteries

U. Genc, C. Kurtulus, U. Yavas  
eatron technologies

In-Cabin Sensing:  
Detecting Driving  
Under the Influence of  
Alcohol

J.-P. Göbel  
CARIAD SE

Model-Based  
Assessment of  
Performance and Total  
Cost of Operation for  
Various Fuel Cell and  
Battery Sizes of a Fuel  
Cell Powered Truck

E. I. Yalçın, Ç. Gürel, D. Ş. Yıldız,  
Y. Togay - FORD OTOSAN



# PRESENTATIONS

Wednesday, October 8th, 2025

08:15 - 08:45

08:45 - 09:15

09:15 - 09:45

## EUROPA

## BRÜSSEL

## K1

## K2

### ICE I

Christian Beidl  
TU Darmstadt

### Battery II

Dirk Uwe Sauer  
RWTH Aachen University

### Safety Assurance

Peter Urban  
ika, RWTH Aachen University

### Chassis - Active Components

Adrian Zlocki  
fka GmbH

### HyMot: H2 Engine optimized for Light Commercial Vehicle Applications with Near-Zero Emissions

J.-B. Leroy - Robert Bosch France  
O. Coureau - Renault Group  
F. Pignard - Forvia  
B. Corbières - Alpine  
A.-L. Mendes-Siqueira - TotalEnergies  
N. Perrot - Ecole Centrales Nantes  
X. Gautrot - IFP Energies Nouvelles  
R. Grizivatz - Ose Engineering

### Key enablers for commercial superfast charging battery cells

S. Beschnitt, A. Averberg,  
J. Küpper, M. Rudolph,  
M. Stapelbroek - FEV

### Linking Real-World Data with Simulation: Handling Requirements for the Validation of Automated Driving Functions

M. Buller  
dSPACE

### Hydraulic Steer-by-Wire System Development for Commercial Vehicle

J. Schubert  
Weber-Hydraulik GmbH

### JMC's all-new 2,5L Diesel Engine Platform – an enabler of economical and sustainable mobility worldwide

T. Koerfer - JMC / FEV  
M. Chao, L. Shanbin, D. Hui  
- Jiangling Motor Co., Ltd.  
U. Grütering, X. Liu, J. Li - FEV

### Next Generation of Prismatic Battery Cell Caps

S. Morgenstern  
Freudenberg Sealing Technologies

### leveLXData update: UAV-based Naturalistic Traffic Data with Multi-Sensor Enrichment

C. Klas  
fka GmbH

### Fluid-free active-passive hybrid electromagnetic damper and its control strategy design

X. Cao, H. Niu  
Hunan University

### A generation of piston bowl geometry: a redefinition of paradigms in high-efficiency natural gas Heavy Duty engine design

S. Golini, S. Giordana, N. Rapetto  
- FPT Industrial  
P. Napolitano, D. Di Domenico,  
C. Beatrice - CNR STMS

### Revolutionizing Low-voltage Boardnet Systems with SCiB™ Cell Property with lithium titanium oxide (LTO) Anode

S. Shimakawa, M. Sekino  
Toshiba Corporation

### Symbolic logic framework for situational awareness in mixed autonomy

M. van Schijndel, S. Haesaert  
- Eindhoven University of Technology  
S. Soudjani, A. Ghosh  
- Max Planck Institute for Software Systems

### From Technology to the Road: Vehicle-Level Performance Analysis of Innovative Roll Damping and Stabilization Solution

T. Schrüllkamp, A. Gersmeier,  
D. Schröder  
- Mubea Fahrwerksfedern GmbH  
C. Kwak, K. Oguzcan  
- Hyundai Motor

# PRESENTATIONS

Wednesday, October 8th, 2025

10:15 - 10:45

10:45 - 11:15

11:15 - 11:45

11:45 - 12:15

## EUROPA

## BRÜSSEL

## K1

## K2

### HEV

Bernhard Geringer  
TU Wien

### Energy Carriers & Infrastructure

André Casal Kulzer  
FKFS, University of Stuttgart

### Real World Applications

Adrian Zlocki  
fka GmbH

### Electric HD-Transport

Jakob Andert  
MMP, RWTH Aachen University

Modular hybrid high-performance drivetrain - engine development within the challenge of performance & sustainability

M. Schober  
Audi AG

Synchronizing Fuel Cells, Industrialization, and Infrastructure for Heavy-Duty Long-Haul Applications

F. Henkel, A. Engelen,  
L. Johansson  
cellcentric GmbH & Co. KG

Teleoperation: Ensuring Safety and Reliability in the Future of Driverless Mobility

M. Mering  
RTC

Sustainability in commercial transport: the eTrailer from Trailer Dynamics

R. Henn, A. Jaber  
Trailer Dynamics GmbH

A Mass Market Highly Efficient Range Extender Engine for Light-duty Vehicles

M. Bassett, Y. Ao, A. Cooper,  
D. Hancock  
MAHLE Powertrain Limited

Assessment of Monitoring and Methodologies for Detecting Carbon Neutral Fuels for Vehicles

J. Weber, M. Calixto de Sousa,  
O. E. Herrmann, Y. Frekers, D. Queck,  
J. Schatorjé  
DENSO AUTOMOTIVE Deutschland GmbH

Results from Large-Scale Testing of Automated Driving

M. Sonntag, L. Eckstein  
ika, RWTH Aachen University

Heavy Duty Drivetrain Electrification: fka development platform accelerates development of innovative technologies

O. Vossen  
fka GmbH

Benchmark in efficiency – the all-new 48-V Hybrid Powertrain of Mercedes-Benz

H. Schilling, N. Brinkert,  
J. Fischer, A. Harsch, W. Holly,  
A. Rehberger, V. Marx  
Mercedes-Benz AG

Unlocking the potential of eFuels - Market volumes to be expected and resulting CO<sub>2</sub> reductions

L. Mauler  
Porsche Consulting

Utilizing Naturalistic Urban Driving Scenarios for Customer-Centric Engineering of ADAS and Automated Driving Systems

F. Schröder, M. Grimm  
- Dr. Ing. h.c. F. Porsche AG  
C. Klas, C. Kotulla, S. Runde,  
A. Zlocki - fka GmbH

High-voltage batteries and heavy-duty electrification: trends, challenges, and solutions

C. Kleinhans, M. Müller  
IONCOR

Range Extender, a new push for electromobility?

P. Kapus, J. Linderl,  
C. Martin, G. Meister  
AVL

Role and opportunity of advanced bio- and e-fuels in mobility

K. Wilbrand, F. Balthasar,  
R. Cracknell, A. Kolbeck,  
R. Uitz-Choi  
SHELL GLOBAL SOLUTIONS  
DEUTSCHLAND GMBH

Why Simulation Technology is the Key for Developing Autonomous Ridepooling

C. Rösener  
Volkswagen AG Nutzfahrzeuge

From Challenge to Charge – Promise and Complexities of Megawatt Charging for Heavy-Duty Trucks

R. Uerlich  
DAF Trucks N.V.

# PRESENTATIONS

Wednesday, October 8th, 2025

13:30

EUROPA

BRÜSSEL

K1

K2

Plenary Discussion  
"Start-Ups in Mobility: Chances and Challenges"

15:00 - 15:30

ICE II

Thomas Koch  
IFKM, Kalsruher Institut für  
Technologie (KIT)

Thermal  
Management

Niklas von der Aßen  
RWTH Aachen University

Development  
Processes II

Henning Wallentowitz  
ika, RWTH Aachen University

Chassis - Vehicle  
Dynamics

Jens Passek  
TH Bingen

Brand new 1.5L  
3Cylinder engine  
development  
dedicated to Next-  
Generation NISSAN  
e-POWER

A. Shikata, N. Tagishi  
Nissan Motor Co., Ltd.

Thermal Simulation  
with Optimisation  
Approaches to Reduce  
Heat Losses during  
MCS Megawatt  
Charging of Electric  
Vehicles

J. Krings, S. Beisser, P. Steinmetz,  
P. Ziegler - Daimler Truck AG  
H.-C. Reuss - FKFS Stuttgart

Software-Defined  
Powertrains  
Surpassing the Limits:  
Cloud-Driven Pwt.  
Optimization

A. Fandakov, M. Clauss,  
A. Heghmanns, J. Hilgert,  
M. Sens, S. Sinning, P. Stracke  
IAV GmbH

A Study on Chassis  
Design of PBV to  
Improve Driving  
Stability

S-J. Noh - Hyundai Motor  
B.-K. Cho, S.-S. Kim - VDL

15:30 - 16:00

Weichai's T10 2,0L  
Diesel Engine – a  
global engine design  
to serve multiple  
commercial  
applications towards  
future market

H. Busch - Weichai / FEV  
T. Körfer - FEV  
Y. Wenzhao, W. Ziliang  
- Weichai Power Co., Ltd.

PFAS free refrigerants  
- Two solutions for  
mobile Applications in  
eVehicles

R. Heckt, H. Freitag  
HANON Systems Deutschand  
GmbH

Development of Next-  
Generation Hybrid  
Powertrain for  
C-Segment SUVs

D. Niiyama  
Nissan Motor Co., Ltd.

A Methodological  
Framework for  
Comparing Real-World  
and Vehicle-in-the-  
Loop Brake Control  
System Testing

W. J. Nana  
Volkswagen AG

16:00 - 16:30

Contributing to the  
Environment with  
Internal Combustion  
Engines towards  
Carbon Neutrality

K. Harada, M. Hitomi, E. Nakai,  
D. Shimo, H. Yamashita,  
T. Yamamoto  
- Mazda Motor Corporation

The Strategic Role of  
Electrical Heaters in  
Optimizing Thermal  
Management in EVs

K. Bolz  
- Eberspächer catem GmbH  
& Co. KG  
C. Massonet, L. Eckstein  
- ika, RWTH Aachen University  
L. Fautz - fka GmbH

From Weeks to Hours -  
AI-powered Concept  
Development for  
Driving Attributes

M. Oswald, E. Bogner, S. Kellner  
AVL List GmbH

Potential of fast and  
precise Torque  
Vectoring actuation for  
shaping vehicle  
dynamics  
characteristics

A. Sticht  
AUDI AG

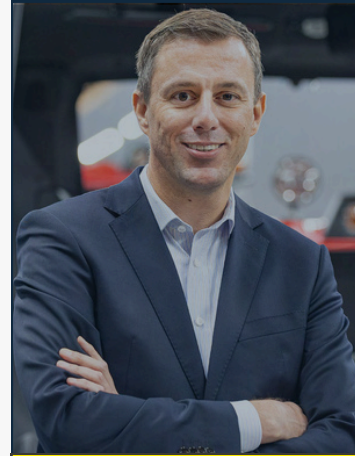
# CLOSING PLENARY SESSION

Plenary Discussion: Sustainable Future in Industrial Applications

16:40



**GERRIT MARX**  
CEO, CNH Industrial



**CHRISTIAN OBERWINKLER**  
CTO, Kässbohrer Geländefahrzeug AG

## Closing Remarks



Univ.-Prof. Dr.-Ing  
**LUTZ ECKSTEIN**  
Institute Director  
ika, RWTH Aachen University



Univ.-Prof. Dr.-Ing  
**STEFAN PISCHINGER**  
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tme, RWTH Aachen University

## End of Colloquium

17:45





# VEHICLE DEMONSTRATIONS

**SCAN ME**

The way we travel is constantly evolving. Mobility solutions are continuously developed to take us from A to B faster, further, more comfortably, and increasingly sustainably. At the Aachen Colloquium, this progress becomes tangible: in front of the Eurogress, you'll have the chance to experience innovative vehicle concepts firsthand. Test drives allow you to explore new technologies and future-oriented solutions for individual transportation – especially in urban environments, where the demand for smart and sustainable mobility is greater than ever.

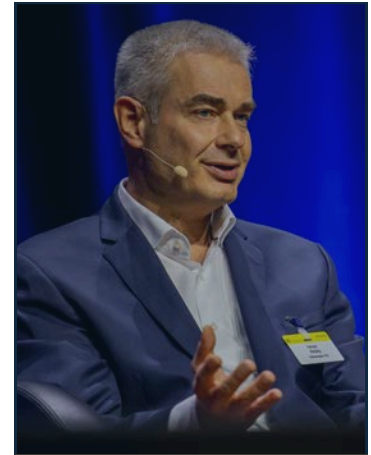
## HERE'S HOW TO PARTICIPATE:

- 1** Register as a participant for the Colloquium.
- 2** Upon arrival at the Eurogress Aachen, head to the driving event registration desk in the foyer.
- 3** Present a valid driving license – international participants must provide a German translation of their license.
- 4** Once verified, you'll receive access to our event platform, where you can book individual test drives with the participating vehicle manufacturers.

**PRO TIP:** SLOTS FILL UP FAST – THE SOONER YOU CHECK IN AND REGISTER ON-SITE, THE MORE OPTIONS YOU WILL HAVE!

# THANK YOU

We sincerely thank the Advisory Board of the Aachen Colloquium for their valuable support, dedication, and expertise. Your commitment plays a crucial role in shaping the quality and success of this event. We deeply appreciate your guidance and contributions, which help drive innovation and meaningful discussions within our community.



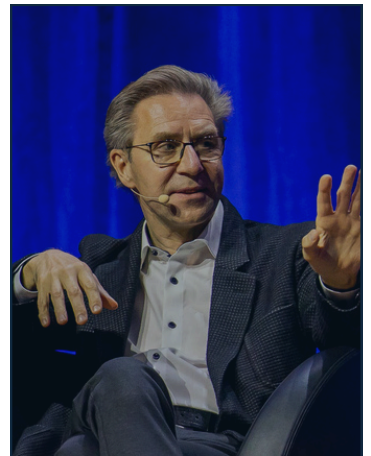
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**RALF HERRTWICH**  
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**PHILIP KOEHN**  
BMW Group



**GERRIT MARX**  
CNH Industrial



**KARSTEN WILBRAND**  
Shell





# TRADITIONAL BANQUET

SCAN ME



The traditional banquet on Tuesday evening presents a feast of culinary delights set in the historic buildings around the Aachen marketplace. This enchanting evening offers a unique blend of exquisite cuisine and restaurants for every taste, providing the perfect backdrop for meaningful interactions. Join your business partners in a relaxed atmosphere, where you can reflect on the day's experiences and deepen your professional relationships. Additionally, this gathering offers an excellent opportunity to enhancing your business prospects and create new contacts.

## EVENING OF CONNECTION, CULTURE & CONVERSATION

This year, in addition to our traditional seated dinners. We are excited to introduce a more agile and interactive format: the banquet at Karls Café and the Centre Charlemagne. Between the stunning Aachen Cathedral and the town hall, Karls Café is far more than just a café. It sits within the Centre Charlemagne, the city's historical museum, and offers a unique blend of cultural ambiance and modern elegance.

# CALL FOR PRESENTATION 2026

Next year the Aachen Colloquium will take place for the 35th time. You are warmly invited to submit a lecture proposal on one of the main topics. You will find the submission form on our website from December 2025: [www.aachen-colloquium.com](http://www.aachen-colloquium.com)

**February 2026**

## DEADLINE FOR ABSTRACTS

Submit your abstract online by February 15th to be considered as a speaker. Submissions will be reviewed by the scientific committee. Presentations must be held in English.

**April 2026**

## NOTIFICATION OF AUTHORS

Authors will receive feedback on their submissions by mid to late April. Accepted speakers will receive further instructions for registration and preparation of their presentations for the Aachen Colloquium Sustainable Mobility 2026.

**September 2026**

## DEADLINE FOR SUBMISSION

Final presentation files must be uploaded by September. This ensures proper technical setup and allows organizers to prepare the event schedule. Late submissions may not be accepted for presentation.

**October 2026**

## ON-SITE PRESENTATION

All accepted contributions will be presented in person at the Aachen Colloquium, taking place from **October 5-7, 2026** at the Eurogress Aachen.

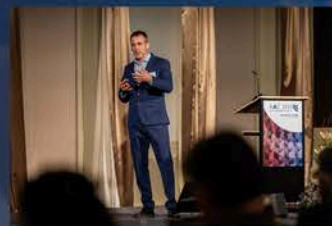


# AAC 2025

AACHEN ACOUSTICS COLLOQUIUM

**November 24 – 26, 2025**  
**Aachen, Germany**

Join us for insightful talks from leading experts in acoustics! Presentations, exhibition and networking opportunities await you.



**Register now!**

[www.aachen-acoustics-colloquium.com](http://www.aachen-acoustics-colloquium.com)

# REGISTRATION & CONFERENCE

## REGISTRATION PROCEDURE

- 1** Registration  
[www.aachen-colloquium.com/registration](http://www.aachen-colloquium.com/registration)
- 2** Receive confirmation by e-mail
- 3** Settle the invoice
- 4** Registration completion after Receipt of payment

## PARTICIPANT FEE

All prices are exclusive of VAT

**Full Participation on site:** 1.590,- €

### Day tickets for flexible participation:

include conference access, catering and event materials.

The banquet can be added for 100,- €

Day 1 Ticket 950,- €

Day 2 Ticket 750,- €

**Online:** 795,- €

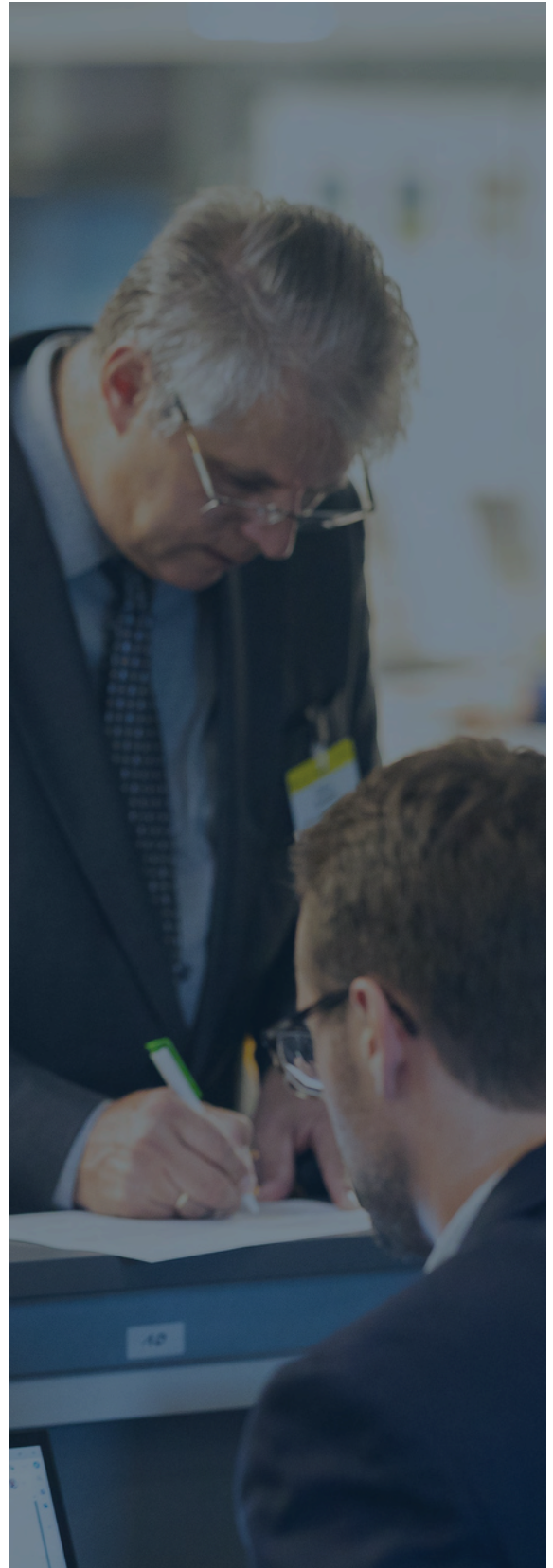
**University members:** 50% discount on all options

## CONFERENCE DOCUMENTS

Licences for single or multiple use of the complete conference proceedings as well as individual presentations can be ordered via [www.aachen-colloquium.com/proceedings](http://www.aachen-colloquium.com/proceedings)

## CONFERENCE OFFICE

Monday, Oct. 6th, 2025	04:00pm - 07:00pm
Tuesday, Oct. 7th, 2025	07:30am - 06:00pm
Wed., Oct. 8th, 2025	07:30am - 06:00pm



# GENERAL INFORMATION

## ORGANIZER

Aachener Kolloquium  
Fahrzeug- und Motorentechnik GbR  
Steinbachstraße 7  
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Germany

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Univ.-Prof. Dr.-Ing. Lutz Eckstein  
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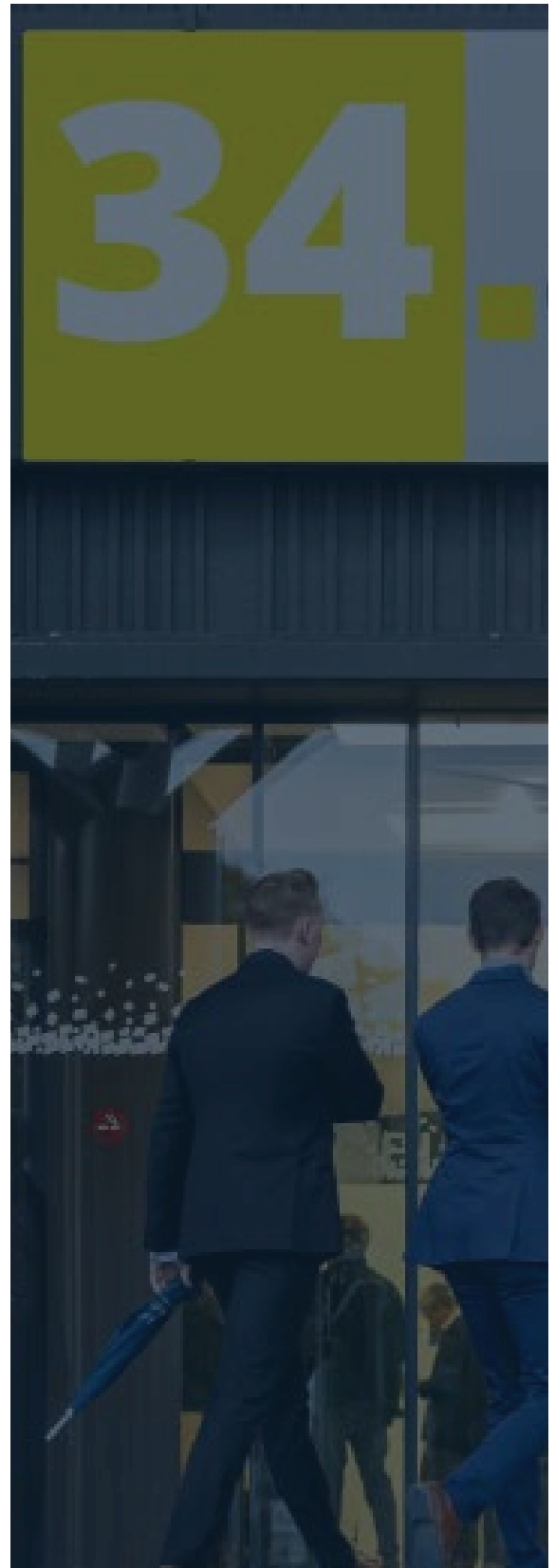
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Franziska Goffart





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# LOOKING FORWARD TO SEEING YOU NEXT YEAR **OCTOBER** **5TH – 7TH, 2026**

[www.aachen-colloquium.com](http://www.aachen-colloquium.com)

[info@aachen-colloquium.com](mailto:info@aachen-colloquium.com)