Automotive Acoustics Conference 2025

Smart practices in sustainable noise control

8 — 9 July 2025 Constance I Germany or virtually via live stream

Hybrid event

Your choice:

Participate on site or virtually via live stream

KEYNOTE LECTURES

Dr. Eskil Lindberg, Volvo Cars Corporation, Sweden

Dr. Alexander Peiffer, AUDI AG, Germany

Dr. Léon Gavric, Stellantis, France



Smart practices in sustainable noise control

- **NVH OF ELECTRIFIED VEHICLES**
 - Acoustic Vehicle Alerting System, virtual artificial models, and active sound design
- LIGHTWEIGHT MATERIALS Metamaterials and sustainability
- SIMULATION AND PREDICTION OF ACOUSTIC PHENOMENA

Vehicle exterior and interior noise

HIGHLIGHT

Evening event with panorama boat cruise on Lake Constance



© Guido Kasper, Bodenseeforum Konstanz



Dr. Davide Canrioli Head of Acoustic and Thermal Management -Research & Technology, Autoneum Management AG



Dr. Alexander Heintzel Editor-in-Chief ATZ | MTZ Group, Springer Nature

Welcome

As the increasing electrification of mobility continues to reshape the acoustic landscape in the automotive industry, high standards for noise, vibration and harshness (NVH) remain critical to vehicle quality and refinement. In this context, sustainable and smart noise control solutions are key to enhancing the NVH performance of both passenger cars and commercial vehicles while minimizing their environmental impact.

The 8th Automotive Acoustics Conference will cover the latest developments in this area and provide a comprehensive snapshot of global advancements in acoustics and NVH. This year's program features 28 presentations from industry leaders, including keynote lectures by Volvo, Audi, and Stellantis. Topics range from NVH strategies for electric vehicles to cutting-edge materials and simulation techniques.

For the first time, our leading global conference in the field of automotive acoustics will take place at the Bodenseeforum in Constance, Germany. The hybrid format of the 2025 edition once again allows participants worldwide to attend virtually.

We look forward to meeting you in Constance or online.

On behalf of the Scientific Advisory Board

Stay at the cutting edge!

- Highly relevant technical papers presented by renowned speakers
- Networking in the international expert community
- Innovative products and services

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Automotive Acoustics Conference

The international Automotive Acoustics Conference is a biennial global forum for the exchange of information and networking among engineers engaged in further improving the NVH characteristics of passenger cars and commercial vehicles. The principal themes of the conference explore the technological innovations as well as the market and regulatory demands that are driving the state of the art in the automotive industry.

Furthermore, the conference caters to the needs of researchers and developers alike by addressing growing expectations with regard to vehicle performance and sustainability. It also touches upon the particular challenge that developments in one area of the car often also affect its acoustic characteristics – especially as perceived by the end user.



The choice is yours: attend on site or virtually via live stream

The digital event platform offers you

- access to all features from one week before until one week after the conference
- Q&A feature in the live stream
- participation on all common devices (smartphone, tablet and laptop)
- 1:1 video chats with attendees, exhibitors and speakers
- live polls
- your personal program overview
- a virtual exhibition
- all available conference documents in one place for download
- as well as other useful functions

Scientific Advisory Board

Our Scientific Advisory Board, which is made up of prominent experts in their respective fields, provides support during the planning phase of the conference and helps to identify suitable topics.

With its expertise the board has made a valuable contribution to the choice of themes for the lecture program.



Dr. Davide Caprioli Autoneum Management AG



Prof. Dr. Markus Bambach ETH Zurich

Scientific Director of the Conference

Patron of the Conference

Thomas Antoine

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Claudio Bertolini

Autoneum Management AG

Dr. Claus Claeys

KU Leuven

Dr. Léon Gavric

Stellantis

Dr. Christine Hascoët

HEAD acoustics GmbH

Dr. Alexander Heintzel

Editor-in-Chief ATZ | MTZ Group, Springer Nature

Dr. Piercarlo Miglietta

Stellantis

Chris Mills

Hyundai Motor Europe Technical Center GmbH

Prof. Dr. Hermann Rottengruber

Otto von Guericke University Magdeburg

Dr. Christian Schuster

Ford-Werke GmbH

Dr. Hendrik Sell

Vibracoustic SE & Co. KG

Johan Stenson

Volvo Car Corporation

Dr. Makram Zebian

Continental Reifen Deutschland GmbH

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PROGRAM TUESDAY, 08-07-2025 **PROGRAM** TUESDAY, 08-07-2025 **PROGRAM** TUESDAY, 08-07-2025

09:15 Welcome and opening

Eelco Spoelder, CEO, Autoneum Management AG, Switzerland; Marc Ziegler, Deputy Editor-in-Chief MTZ, Springer Nature, Germany; Dr. Davide Caprioli, Head of Acoustic and Thermal Management, Autoneum Management AG, Switzerland

09:30 - 10:30 Plenum - Plenary Hall

FULL VEHICLE DESIGN I

Moderation: Dr. Davide Caprioli, Autoneum Management AG, Switzerland

KEYNOTE

09:30 / Volvo EX90 – the journey towards world class comfort

Dr. Eskil Lindberg, Engineering Manager, Driving Experience, Volvo Car Corporation, Sweden

10:00 Ford's Transit Custom – electrifying Ford's successful commercial vehicle

Daniel Kierspel, Attribute Engineer, Vehicle Powertrain NVH -BEV Powerpacks - PD Europe, Ford-Werke GmbH [in cooperation with Vehicle Technology, AKAD University], Germany

10:30 Refreshment break with coffee and tea in the exhibition area

11:00 – 12:30 Plenum – Plenary Hall

FULL VEHICLE DESIGN II

Moderation: Claudio Bertolini, Autoneum Management AG, Switzerland

11:00 Noise transmission path analysis and sound package optimization for BEVs using numerical simulation

Ki Chang Jo, Senior Research Engineer, NVH Technology Team, Hyundai Motor Company, South Korea [in cooperation with Autoneum Management AG, Switzerland]

11:30 SEA hybrid p/Q correlated modelization process for vehicle transient "on track" noise assessment

Jean-Baptiste Prunet, Cockpit Functional Design Expert, NVH, Stellantis, France [in cooperation with Stellantis Germany GmbH, Germany]

12:00 Recent advances in efficient fully-trimmed body NVH analysis

Dr. Nicolas Driot, Product Manager, Design and Engineering, Hexagon Manufacturing Intelligence, France [in cooperation with AUDI AG, Germany; Skoda Auto AS, Czech Republic]

12:30 Lunch in the exhibition area

14:00 - 15:30 Parallel strand I - Plenary Hall

ADVANCED NOISE REDUCTION

Moderation: Dr. Claus Claeys, KU Leuven, Belgium

14:00 Noise reduction in passenger vehicles using plasmacoustic transducers

Dr. Stanislav Sergeev, CTO, Sonexos SA [in cooperation with Laboratory of Wave Engineering, Swiss Federal Technology Institute of Lausanne (EPFL)], Switzerland

14:30 Optimal, non-redundant input sensor selection for active noise control of HVAC systems in vehicles

Daniela Bellinetto, PhD Candidate, BMW Group [in cooperation with TU Clausthal; recalm GmbH], Germany

15:00 Comparison of different noise and vibration reduction measures on a cover for power electronics

Dr. Sebastian Rieß, Research Associate, Fraunhofer Institute for Structural Durability and System Reliability (LBF) [in cooperation with ika, RWTH Aachen University; Mercedes-Benz AG], Germany

15:30 Refreshment break with coffee and tea in the exhibition area

16:00 – 17:30 Parallel strand I – Plenary Hall

COMPONENTS

Moderation: Johan Stenson, Volvo Car Corporation, Sweden

16:00 Analysis of noise transmission routes for advanced development of door systems

Yuko Nakagawa, Group Manager, Interior and Exterior Advanced Development Department, Toyota Boshoku Corporation [in cooperation with ATN Auto Acoustics Inc.], Japan

16:30 Method for determination of psycho-haptically perceived vibration in steer-by-wire applications

Kenny Faske, Senior Specialist NVH, Schaeffler Technologies GmbH & Co. KG, Germany

17:00 From pulsations to perfection: a hybrid approach for NVH optimization in automotive fluid systems

Jonas Holzbrecher, NVH and Simulation Expert, Engineering Simulation Acoustics (ESA), Evamo - Pump Technology Solutions PS GmbH, Germany

17:30 End of the first day of the conference 18:00

14:00 – 15:30 Parallel strand II – Congress Hall

POWERTRAINS

Moderation: Dr. Piercarlo Miglietta, Stellantis, Italy

14:00 Optimizing e-axle noise and vibration through virtual simulation and experimental validation

lacopo Stoppato, NVH Analyst, Virtual Engineering & NVH, Dumarey Automotive Italia, Italy

14:30 NVH optimal dedicated hybrid IC engine

Bernhard Graf, Skill Team Leader, Vehicle and PT-NVH & Acoustics, AVL List GmbH, Austria

15:00 Virtual EDU integration – NVH optimization through coupling of simulation and experimental data

Dr. Christoph Steffens, Department Manager, Powertrain and Vehicle NVH, FEV Europe GmbH, Germany

16:00 – 17:30 Parallel strand II – Congress Hall

HIGH FREQUENCY

Moderation: Chris Mills, Hyundai Motor Europe Technical Center GmbH, Germany

16:00 High-frequency system sensitivities as a key factor for early NVH optimization

Dr. Florian Löcken, Team Leader, Vehicle Testing & NVH, Vibracoustic SE & Co. KG, Germany

16:30 Characterization of the electromagnetic noise generated by PWM

Salomé Wanty, PhD Student, Laboratoire Vibrations Acoustique (LVA), INSA Lyon & Dassault Systèmes, France

7:00 Advanced battery representations for optimal body integration

Marc Brughmans, RTD Fellow, Siemens Digital Industries Software, Belgium

Panorama boat cruise on Lake Constance with dinner on Mainau Island



Enjoy a delightful evening and interesting conversations over dinner with colleagues and speakers.

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08:30 - 10:00 Plenum - Plenary Hall

SUSTAINABILITY

Moderation: Prof. Dr. Markus Bambach, ETH Zurich, Switzerland

KEYNOTE

08:30 Optimization of mass-spring noise control treatment using a permeable heavy layer

Dr. Alexander Peiffer, Head of Team, Whole Vehicle Acoustics BEV and Active Systems, AUDI AG, Germany

09:00 Comfort evaluation of the introduction of a mono-material floor insulator in D-segment vehicles

Keun-Young Kim, Senior Research Engineer, Interior & Exterior Materials Development, Hyundai Motor Company, South Korea; Dr. Théophane Courtois, Manager of Customer Pre-Development - Research & Technology, Autoneum Management AG, Switzerland

09:30 Mono-material TPU foam and heavy layer with improved acoustic performance and recyclability

Mark Brennan, Senior Research Manager, Huntsman, Belgium

10:00 Refreshment break with coffee and tea in the exhibition area

10:30 - 12:00 Plenum - Plenary Hall

TPA

Moderation: Dr. Makram Zebian, Continental Reifen Deutschland GmbH, Germany

10:30 Predicting vehicle road noise using component-based transfer path analysis with all tires rolling

Javier del Fresno Zarza, PhD Researcher, Department of Mechanical Engineering, KU Leuven / Flanders Make, Belgium [in cooperation with Bridgestone Europe NV/SA, Italy]

11:00 Hybrid virtual prototyping using CTPA for road noise performance

Domenico Minervini, Advanced Research Engineer, Simcenter Services, Siemens Digital Industries Software, Belgium [in cooperation with Hyundai Motor Europe Technical Center GmbH, Germany; Hyundai Motor Company, South Korea]

11:30 Predicting blocked force changes of a suspension system using an SI method evaluated in an NVH simulator

Eric Pasma, Head of Business Development & Projects, Vibes.technology B.V., Netherlands; Graham Franks, Principal NVH Technical Specialist, VI-grade, United Kingdom [in cooperation with Hyundai Motor Europe Technical Center GmbH; VI-grade GmbH, Germany]

12:00 Lunch in the exhibition area

13:00 – 14:30 Plenum – Plenary Hall

ADVANCED MODELLING

Moderation: Dr. Christine Hascoët, HEAD acoustics GmbH. Germany

13:00 Deep learning surrogate models for automotive acoustics predictions

Afaq Mustafa, Industry Process Consultant Specialist, Dr. Faron Hesse, SIMULIA Industry Process Constultant Specialist, Dassault Systèmes Deutschland GmbH, Germany

13:30 The relevance of artificial heads in test-based and numerical scenarios

Haiko Brücher, Pre-Development Engineer, Pre-Development SW&HW, HEAD acoustics GmbH [in cooperation with Dr. Ing. h.c. F. Porsche AG], Germany

14:00 Coupling acoustic and structural modes via non-conforming interfaces

Manuel Gutbrod, Doctoral Student, Passenger Compartment/ Aeroacoustics, BMW Group, Germany [in cooperation with Institute for Mechanics and Mechatronics, TU Vienna, Austria]

14:30 Refreshment break with coffee and tea in the exhibition area

15:00 - 16:00 Plenum - Plenary Hall

FULL VEHICLE DESIGN III

Moderation: Dr. Davide Caprioli, Autoneum Management AG, Switzerland

15:00 NVH Digital Prototype for trucks: prediction of customer feature values

Dr. Oleg Danilov, NVH & Ride Feature Analyst, Volvo GTT, France [in cooperation with Volvo GTT, Sweden; Volvo Group India Private Limited, India]

KEYNOTE

15:30 Exterior noise model for BEVs

Dr. Léon Gavric. Senior Fellow. Engineering. Stellantis. France

16:00 Summary of the conference and closing remarks

Dr. Davide Caprioli, Head of Acoustic and Thermal Management, Autoneum Management AG, Switzerland; Marc Ziegler, Deputy Editor-in-Chief MTZ, Springer Nature, Germany COOPERATION PARTNER FURTHER PARTNERS









Autoneum Management AG

Autoneum is globally leading in acoustic and thermal management for light and commercial vehicles. The Company develops and produces multifunctional, lightweight and sustainable components and systems for the interior floor and interior trim as well as the engine bay and the underbody. The innovative products and technologies are suitable for all drive types and contribute significantly to the reduction of interior and exterior noise of internal combustion, hybrid or pure electric vehicles, thereby enhancing driving comfort.

Autoneum's individually adaptable technologies and product packages also make vehicles considerably lighter, which leads to improved fuel and energy efficiency and, consequently, to less CO_2 emissions and an increased driving range. In addition, the Company provides specialized benchmark measurement systems for automotive acoustics that allow for the evaluation and optimization of the NVH performance of components and material properties.

Autoneum's long-standing expertise and comprehensive technological know-how is recognized by nearly all automobile manufacturers worldwide and is also proven by the continuous success of the Automotive Acoustics Conference, which was held for the first time more than 50 years ago. The Swiss-based Group is represented in 25 countries, employs around 16,500 people and operates 77 production facilities worldwide.

Cooperation partner

autoneum

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Mr. Alex Woidich
Phone +49 611 7878-206
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Registration fee

Participation on site: € 1,295.– plus VAT

This includes the conference documentation, the accompanying trade exhibition, the use of the digital event platform as well as the catering during breaks and the evening event on 08-07-2025.

Participation virtually via live stream: € 795.- plus VAT

This includes the conference documentation as well as the use of the digital event platform with virtual exhibition.

In addition, all participants will have access to the video recordings of all released lectures a few days after the event.

Date

08 - 09 July 2025

Venue

Bodenseeforum Konstanz Reichenaustr. 21 78467 Constance Germany or virtually via live stream



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Language used in the presentations

English

Hotels

Some hotels have room blocks at reduced prices for the participants. You can find more information on the events page of our website.

Further information and online registration:



www.atzlive.com/acoustics

Participants

The Automotive Acoustics Conference is aimed at professionals working in acoustics and NVH at OEMs, component and systems suppliers, engineering consultancy partners, and experts conducting research at academic institutions. They are active in different, but complementary, parts of the process chain, such as development, design, material and component characterization/validation, calculation and simulation, testing, and production.



Further information and online registration:



www.ATZlive.com

www attlive com/acoustics

Automotive Acoustics Conference 2025 8 – 9 July 2025, Constance I Germany or virtually via live stream

Hybrid event

Your choice:

Participate on site or virtually via live stream

Your contact person

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ATZlive Spotlight on Powertrain and Vehicle Engineering

Our events are firm fixtures in the diaries of automotive engineers and powertrain specialists. We offer a range of innovative conferences on the latest topics in the world of automotive engineering and powertrain technology, from the perspective of research, development, and applications.

Our close collaboration with the editorial teams of our specialist magazines ATZ and MTZ keeps us fully up-to-date on the latest topics and trends on the market.

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