

ATZ live

Call for Papers

www.ATZlive.com

Automotive Acoustics Conference

5th International ATZ Conference on Vehicle Acoustics
9 and 10 July 2019 | Zurich/Ruschlikon | Switzerland



© Autoneum

NVH OF ELECTRIFIED VEHICLES
Vehicle NVH
E-Powertrain

LIGHTWEIGHT MATERIALS
Meta-Materials

SIMULATION AND PREDICTION OF ACOUSTIC PHENOMENA
Vehicle Exterior Noise

/// SCIENTIFIC DIRECTOR

Dr. Davide Caprioli, Autoneum

autoneum



Impressions of the 2017 conference





Prof. Dr. Hartmut Bathelt
Akustikzentrum GmbH



Claudio Bertolini
Autoneum
Management Ltd



Giovanni Boreanaz
FIAT Group
Automobiles S.p.A.



Dr. Davide Caprioli
Autoneum Management Ltd
Scientific Director
of the Conference



Prof. Dr. Paolo Ermanni
ETH Zurich
Patron of the
Conference



Dr. Léon Gavaric
PSA Peugeot
Citroën Automobiles



Dr. Alexander Heintzel
Editor-in-Chief
ATZ | MTZ | ATZelektronik |
lightweight.design



Christoph Meier
Daimler AG



Prof. Dr. Hermann Rottengruber
Otto von Guericke
University Magdeburg



Dr. Christian Schuster
Ford Motor Company



Dr. Hendrik Sell
Vibracoustic
GmbH & Co. KG



Dr. Makram Zebian
Continental Reifen
Deutschland GmbH

WELCOME

NVH has always been an important indicator of vehicle processing and quality. The increased variety and complexity of today's powertrains is further increasing the effort required for acoustic development. Noises that the internal combustion engine has masked are now clearly emerging. As a result, acoustic experts are faced with the challenge of effectively reducing the noises also from servomotors and auxiliary units that are no longer superimposed. Lightweight construction also increases the complexity of striving for a comfortable NVH level. Better measurement analyses and faster calculation methods are important tools for this and central topics in the experts' discussion.

The biennial Automotive Acoustics Conference has established itself as the leading global conference in the field of automotive acoustics, providing an up-to-date overview of the latest trends and expertise. At the 2017 conference, more than 250 participants representing 119 companies gathered at the Gottlieb Duttweiler Institute (GDI) in Zurich/Ruschlikon. The 2019 edition will again take place at this renowned Swiss think tank under the patronage of Professor Dr. Paolo Ermanni of ETH.

The conference program includes presentations by OEMs, suppliers, engineering service providers, and university research institutes. The event is complemented by parallel workshops on the latest trends in the automotive industry as well as an extensive exhibition of various suppliers presenting innovations in acoustic management.

We look forward to your active participation and would be delighted if you would submit a proposal for a paper.

On behalf of the Scientific Advisory Board

Dr. Davide Caprioli
Head Product Acoustic
and Thermal Performance
Autoneum Management Ltd

Dr. Alexander Heintzel
Editor-in-Chief
ATZ | MTZ | ATZelektronik |
lightweight.design



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: development, design, material, and component characterization/validation, calculation and simulation, testing, and production.

MAIN SUBJECT AREAS

Vehicle NVH

Passenger cars and commercial vehicles | Autonomous cars NVH requirements | Body, chassis, suspension, powertrain | Exterior / interior noise and vibration | Wind noise / aero-acoustics | Tire noise

NVH of HEVs & BEVs

xEV NVH challenges | xEV NVH design strategies | Sound design / quality | E-motors / e-equipment source characterization

Engine / Powertrain NVH

Internal combustion engines | Engine bay / vehicle exterior sound package design | Intake / exhaust noise | Sound design / quality

Vehicle exterior noise

Legislation, directives, noise abatement regulations | Measurement methods and testing equipment | Powertrain / vehicle exterior NVH design strategies | Tires / road characterization and simulation

Lightweight NVH materials and components

Meta-materials, sound absorbers, sound insulation packages, dampers | Multifunctional materials / components | Design for lightweight NVH packages | Active noise and vibration systems | Sound package solutions for lightweight vehicle bodies

Measuring, testing, and experimental engineering

NVH measurement methods | Sound source identification / characterization | Sensors and test rigs | Measurement data processing | Aero-acoustics

Calculation and simulation

Deterministic and statistical methods | Airborne / structure-borne noise simulation | Hybrid methods – experiment and calculation | Simulation of exterior NVH packages | Multidisciplinary simulation | Vibro-acoustic optimization

YOUR PRESENTATION PLATFORM

Take this opportunity to present your latest products and services to the specialist audience: as an exhibitor in our exclusive exhibition and/or as a sponsor with an attractive advertising presentation. Make use of this industry meeting place to make valuable contacts with customers.

For information on the various presentation options, please contact:
Elke van Lon
Phone +49 611 7878-320
elke.vanlon@springernature.com

CALL FOR PAPERS

Are you interested in presenting a paper on one of these subjects?

If so, please send a short version of your proposed paper to:

Gabriele Bozsa | ATZlive
Abraham-Lincoln-Straße 46 | 65189 Wiesbaden | Germany
Phone +49 611 7878-160 | Fax +49 611 7878-452
gabriele.bozsa@springernature.com

Your submission proposal should contain:

- The title of the paper in English
- The name of the speaker and any co-authors with job title, company address in English, telephone number, and e-mail address
- Main points of the paper's contents and a short abstract in English
- Classification under one of the main subject areas in English
- Brief indication of the innovative value of the work in English
(Please submit documents as a PDF file or in Microsoft Word format)

On the basis of the short version of the paper, the Scientific Advisory Board for the conference will decide on its acceptance.

Information on the Conference

The time allowed for presentation is 20 minutes with a subsequent discussion. The registration fee will be waived for one speaker per paper presented. The language of the conference (manuscripts, slides and speech) is English.

Schedule

Deadline for submission proposals: **10 December 2018**
Notification of the authors: **February 2019**
Submission of final manuscripts: **20 May 2019**

The final conference program will be published in April 2019.

DEADLINE FOR PROPOSAL SUBMISSION

10 DECEMBER 2018

CONFERENCE BOOKING

Would you like to register as a conference participant?
Please use our online booking tool: www.ATZlive.com