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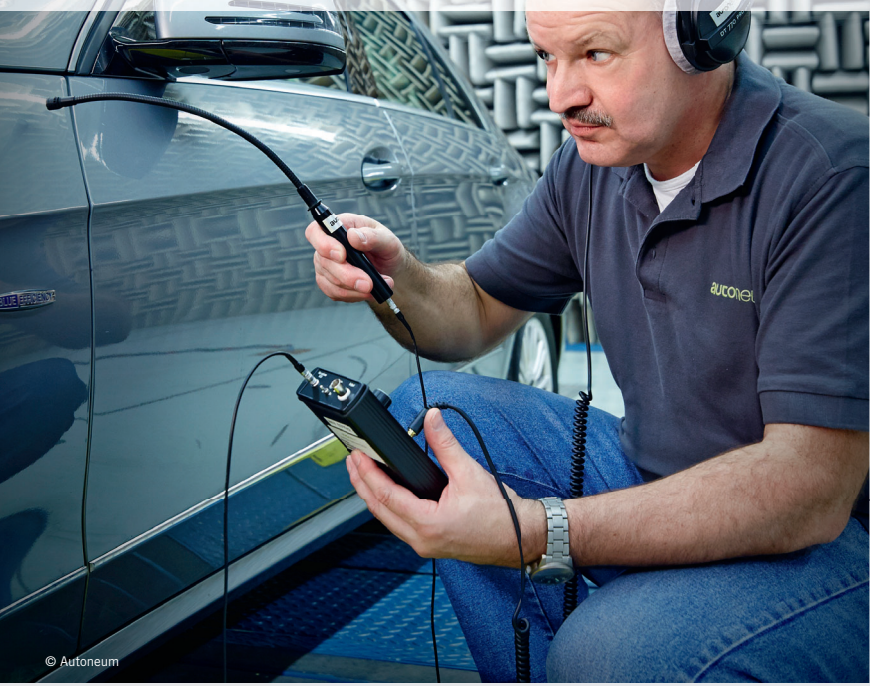
Automotive Acoustics Conference

5th International ATZ Conference on Vehicle Acoustics

9 and 10 July 2019 | Zurich/Rueschlikon | Switzerland



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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

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Automotive Acoustics Conference

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/ Rueschlikon. The 2019 edition will again take place at this renowed 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 |
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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:
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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:

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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: **14 January 2019**
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
14 JANUARY 2019

CONFERENCE BOOKING

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