

Wednesday, June 17, 2026

13:00

Arrival and Registration

congress room n. 1

13:30

Workshop 1

Hybrid Modular Engineering: Blocked Forces, Frequency Based Substructuring, Virtual Point Transformation

Chair: Dennis De Klerk, VIBES Technology

Experts panel:

Munhwan Cho, Hyundai Motor Co

Philipp Wagner, BMW AG

Christoph Frankhauser, Magna Steyr AG & Co KG

Markus Brandstetter, Siemens Digital Industries Software

Frank Naets, KU Leuven

Ron Reichart, VIBES Technology

15:30

Coffee Break

16:00

Workshop 2

Active Sound Design: Virtual Prototyping and Validation with NVH Simulators

Chair: Giorgio Adriano, VI-grade / HBK

Experts panel:

Ben Schneider, DSP Concepts – Audio Weaver

Iain Suffield, Jaguar Land Rover

Jose Maria Marin, Blackberry QNX

Michael Wirtz, Bose Automotive

18:00

19:00

Evening Reception @ Graz "Das Promenade"
Please register in advance

08:00

Thursday, June 18, 2026

Arrival and Registration

congress room n. 1

08:45

Opening Session & Welcome Addresses

Chair: Eugène Nijman and Anton Fuchs, Virtual Vehicle Research GmbH

09:05

1st Keynote Lecture

Hear what you want – the future of the automotive in-cabin audio experience

Aaron Jefferson, Bose Automotive

09:40

Coffee Break

congress room n. 1

congress room n. 2

congress room n. 3

10:00

Session 1

Numerical methods / modelling

Chair: Manfred Kaltenbacher
Co-Chair: Nicola Contartese

Session 2

Vehicle NVH

Chair: Laurent Gagliardini
Co-Chair: Alexander Peiffer

Session 3

Sound Package Design & Materials

Chair: Thierry Bourdon
Co-Chair: Piercarlo Migletta

10:00

26SNVH-0008/2026-01-0679

Impact of door dynamics on vehicle interior low-frequency vibro-acoustics

Manuel Gutbrod, BMW AG

26SNVH-0003/2026-01-0688

NVH Design and Refinement of Dedicated Hybrid Engine on Range Extender Electric Vehicle

Guiqiang Zhang, Shanghai Lixiang Automobile Technology

26SNVH-0041/2026-01-0675

Study on Interior Noise Contribution and Improvement Measures for the Door System of a Premium Vehicle

Ki-Sang Chae, Hyundai Motor Company

10:20

26SNVH-0074/2026-01-0676

Dynamic characterisation and modelling of Electric Cables under representative load conditions

Blasius Buchegger, Virtual Vehicle Research GmbH & David Lukavsky, Gebauer & Griller Kabelwerke GesmbH

26SNVH-0075/2026-01-0723

Spatial Noise Acquisition at the Driver's Position in an Electric Vehicle with Increased Accuracy

Thomas Rittenschober, Seven Bel GmbH

26SNVH-0026/2026-01-0708

Holistic sound package design for optimal NVH and carbon footprint of a BEV

Theophane Courtois, Autoneum Management AG

10:40

26SNVH-0001/2026-01-0681

Single microphone sound source localisation in partially known environments using sequential spatial sampling

Giovanni Battista Pirro, Virtual Vehicle Research, KU Leuven

26SNVH-0060/2026-01-0696

Simulation and Analysis of Flow and Acoustic Induced Structural Vibration

Florian Schwertfirm, Kreuzinger und Manhart Turbulenz GmbH

26SNVH-0029/2026-01-0702

Optimizing recycled and recyclable PET felt lightweight formulations for best acoustic insulation as poroelastic springs with minimum weight

Arnaud Duval, Treves

11:00

26SNVH-0019/2026-01-0713

Towards Realistic Stick-Slip Testing: Efficiently Mapping Material Behaviour across a wide Range of Loading Conditions

Susanne Fritz, FILK Freiberg Institute gGmbH

26SNVH-0076/2026-01-0684

A Modular Method for Certified Virtual Validation of NVH Performance in Automotive Platforms

Lucia Celiberti and Andrea Camia, Stellantis

26SNVH-0050/2026-01-0678

Effect of Backing PU Foam Material Properties on Acoustic Insulation Pad Insertion Loss

Ki-Sang Chae, Hyundai Motor Co.

11:20

26SNVH-0012/2026-01-0714

Bridging Simulation And Reality: Incorporating Seal Contact Detachment Into Stick-Slip Prediction

Martin Strangfeld, FILK Freiberg Institute gGmbH

26SNVH-0059/2026-01-0703

NVH Aspects of DC Charging

Josef Gojo, AVL List GmbH

26SNVH-0033/2026-01-0701

Improving reliability of an automotive power electronic unit using Locally Resonant Metamaterials

Sara Tincani, Robert Bosch GmbH; KU Leuven

11:40

Room Change

congress room n. 1

11:45

2nd Keynote Lecture

Active Approaches to Enhancing Noise and Vibration Control

Jordan Cheer, University of Southampton

12:15

EXHIBITORS' PRESENTATIONS

Chair: Jan Rejlek

Virtual Vehicle, AVL, CDH, HEAD acoustics, VI-grade, HBK, Qsources, Motion Scope, Seven Bel

12:50

Lunch Break

	<i>congress room n. 1</i>	<i>congress room n. 2</i>	<i>congress room n. 3</i>
14:30	<p>Session 1 cont.</p> <p>Numerical methods / modelling</p> <p>Chair: Benoit v.d. Nieuwenhof Co-Chair: Peter Kalinke</p>	<p>Session 4</p> <p>Vehicle NVH - body</p> <p>Chair: Lucia Celiberti Co-Chair: Blasius Buchegger</p>	<p>Session 5</p> <p>Electric Drive Unit (EDU) NVH</p> <p>Chair: Matthew Maunder Co-Chair: Bernhard Graf</p>
14:30	<p>26SNVH-0070/2026-01-0700</p> <p>Experimental Validation of Frame-Dependent Gyroscopic Frequency Splitting in a Freely Rotating Tire Using Wireless MEMS Accelerometers and Scanning Laser Doppler Vibrometer</p> <p>Javier del Fresno Zarza, KU Leuven</p>	<p>26SNVH-0011/2026-01-0680</p> <p>New Correlation Approach for Body Distortion of a Complete Vehicle Using MBD and Test Results</p> <p>Lisa Lindkvist and Emma Olger, Geely Technology Europe AB</p>	<p>26SNVH-0018/2026-01-0685</p> <p>High-Fidelity NVH Analysis Model Development Process for EV Traction Motors Based on Experimental Correlation</p> <p>Donghee Kim, Hyundai Mobis</p>
14:50	<p>26SNVH-0020/2026-01-0709</p> <p>Regularized Inverse Methods for Tire Noise Source Identification and Pass-by Noise Estimation in Electric Vehicles</p> <p>Benjamin Morin, Autoneum</p>	<p>26SNVH-0016/2026-01-0682</p> <p>A New Approach to Identify Rigid Body Rotations When Measuring the Body Distortion of a Full Vehicle</p> <p>Emma Olger and Lisa Lindkvist, Geely Technology Europe AB</p>	<p>26SNVH-0056/2026-01-0677</p> <p>Analytical Magnetic Circuit Modeling and Parameter Estimation of a PMSM for Spatial Harmonics and Radial Forces Characterization</p> <p>Ludovica Luciano, Universitat Politècnica de Catalunya;</p>
15:10	<p>26SNVH-0078/2026-01-0711</p> <p>A contribution to the probabilistic road noise simulation using a Non-Parametric Variability Modeling</p> <p>Laurent Gagliardini, Acoustics In The Loop</p>	<p>26SNVH-0035/2026-01-0674</p> <p>Early-Stage BIW Design Evaluation Using Higher-Order Beam-Shell Hybrid Models</p> <p>Jin Hong Kim, Hyundai Motor Group</p>	<p>26SNVH-0055/2026-01-0695</p> <p>Influence of Common Mode Voltage Reduction Algorithms on High-Frequency Sideband Vibrations in PMSMs</p> <p>Mahmoud Aly Khamis, Universitat Politècnica de Catalunya, Tanta University</p>
15:30	Coffee Break		
15:50	<i>congress room n. 1</i>		
15:50	<p>3rd Keynote Lecture</p> <p>AI-supported NVH Development</p> <p>Jürgen Kohler, Mercedes-Benz AG</p>		
16:25	Room change		

16:30

Session 1 cont.

Numerical methods / modelling

Chair: Peter Kalinke
Co-Chair: Benoit v.d. Nieuwenhof

Session 6

Vehicle NVH - components

Chair: Michael Hartmann
Co-Chair: Joerg Ocker

Session 5 cont.

Electric Drive Unit (EDU) NVH

Chair: Bernhard Graf
Co-Chair: Matthew Maunder

16:30

26SNVH-0013/2026-01-0694

A High-Performance Computing Strategy for Acoustic Encapsulation Modeling of Electric Vehicle Subsystems Using Coupled BEM-PEM-FEM Methods

Massimiliano Calloni, Keysight Technologies Inc.

26SNVH-0066/2026-01-0724

An Experimental Setup for Vibroacoustic and Fluid-Borne Noise Characterization of Electric Refrigerant Compressors using R1234yf or R744

Gabriel Beer, Institute of Fluid Mechanics Erlangen

26SNVH-0002/2026-01-0691

Methodology Development for EDM Vibroacoustic Assessment using Simulation Measurement Comparison and RCA

Borislav Klarin, AVL-AST d.o.o.

16:50

26SNVH-0067/2026-01-0706

Mid-High frequency structure-borne transmission in full vehicles trimmed body models using a reverberant finite element approach

Fabrizio Errico, Dassault Systemes

26SNVH-0064/2026-01-0722

Vibroacoustic Analysis and Optimisation of an Electric Refrigerant Scroll Compressor

Lukas Saur, Institute of Fluid Mechanics Erlangen

26SNVH-0007-2026-01-0687

Electric drive unit housing ribbing for low noise radiation

Johan Cederlund, Volvo Car Corp.

17:10

26SNVH-0058/2026-01-0705

Transmission Loss of Vehicle Components Using Virtual SEA: Validation and Modeling Challenges

Joseph Orselli, MSC Software

26SNVH-0025/2026-01-0673

Vibration Synthesis and Seat Dynamics Compensation for Single-Axis Seat Vibration in Driving Simulators

Joshua Daniel Muthu Chaiphas, Siemens Industry Software

26SNVH-0015/2026-01-0692

Investigation of Spline-Induced Excitation Forces in Electric Drive Units via Flexible Multibody Dynamic Simulation

Dong-Jun Kim, Hyundai Mobis

17:30

26SNVH-0027/2026-01-0707

Validation of an adaptive order Finite Element model for transmission loss simulation of trimmed automotive structures

Bert Van Genechten, Siemens Digital Industries Software

26SNVH-0005/2026-01-0712

Spatial Optimisation of Inner Dash Acoustic Performance using Reciprocal Holography

Giacomo Eandi, Adler Pelzer Group

26SNVH-0047/2026-01-0686

Application of Tone-to-Noise Ratio for Early Diagnosis and Control of Electric Drive Whine

Changshui Zhou, Geely Automobile Research Institute Co., Ltd.

17:50

19:30

Social Evening at Schlossberg Restaurant
Please register in advance

Friday, June 19, 2026

09:00

congress room n. 1

congress room n. 2

congress room n. 3

09:00

Session 7

Substructuring, Component based TPA, blocked forces & virtual sensing

Chair: Frank Naets
Co-Chair: Dennis de Klerk

Session 8

Machine learning and Data Science for NVH

Chair: Stefan Becker
Co-Chair: Josef Girstmair

Session 9

Vehicle NVH - perception

Chair: Ralf Lehmann
Co-Chair: Laura Leucke

09:00

26SNVH-0010/2026-01-0699

Standardized Equivalent Tire Load measurements delivered by suppliers to an OEM enabling consistent and comparable simulation input

Ron Reichart, VIBES.technology

26SNVH-0063/2026-01-0720

Active Learning Supported Metadata Extraction from NVH Simulations

Marinus Luegmair, BMW Group

26SNVH-0052/2026-01-0670

Vibro-Acoustic simulation for vehicle audio design

Mehdi Zerrad, Renault Group

09:20

26SNVH-0080/2026-01-0710

Frequency Based Substructuring as Key Enabler for New NVH Root Cause Analysis Types in FE Simulations

Markus Herbst, BETA CAE Systems

26SNVH-0065/2026-01-0718

A Self-Learning Framework for NVH CAE Analysis

Rene Visser, CDH AG

26SNVH-0014/2026-01-0672

Psychoacoustic Annoyance Models Assessment for Automotive Fan-Systems

Denis Scouarnec, Valeo Power

09:40

26SNVH-0057/2026-01-0704

Automating Component NVH Characterization: A Systematic Approach for Component Test Bench Testing

Markus Brandstetter, Siemens Digital Industries Software

26SNVH-0061/2026-01-0689

Best-in-Class NVH Optimisation for Electric Powertrains, Holistic Front-Loading Approaches

Mehdi Mehrgou, AVL List GmbH

26SNVH-0068/2026-01-0690

Field-Based Evaluation of Physiological Fatigue Reduction in Fuel Cell Refuse Collection Vehicle Using Heart Rate Variability

Atsuko Utsumi, Keio University

10:00

26SNVH-0051/2026-01-0721

Robustness Analysis for A Computationally efficient Virtual Sensing Framework in time domain for Exterior Vibroacoustics proble

Luyao Dong, KU Leuven

26SNVH-0039/2026-01-0671

The Influence of Interior Noise on Just Noticeable Speed Differences in Conventional and Electric Vehicles

Zhenxian Li, INSA Lyon-LVA

10:20

Coffee Break

congress room n. 1

10:40

4th Keynote Lecture

From China to the World: Geely Auto and its NVH Evolution

Changshui Zhou, Geely Research Institute

11:15

Room Change

	<i>congress room n. 1</i>	<i>congress room n. 2</i>	<i>congress room n. 3</i>
11:20	<p>Session 7 cont.</p> <p>Substructuring, Component based TPA, blocked forces & virtual sensing</p> <p>Chair: Dennis de Klerk Co-Chair: Frank Naets</p>	<p>Session 8 cont.</p> <p>Machine learning and Data Science for NVH</p> <p>Chair: Stefan Becker Co-Chair: Josef Girstmair</p>	
11:20	<p>26SNVH-0044/2026-01-0683</p> <p>Joint estimation of inputs and states for multi-axis vibration environment testing</p> <p>Rodrigo Salazar Colunga, Robert Bosch GmbH, KU Leuven</p>	<p>26SNVH-0042/2026-01-0717</p> <p>Development of a Convolutional Autoencoder Based Unsupervised Classification and Visualization Model for Extracting Feature Frequency in C-EPS Fault Diagnosis</p> <p>Jun-Seo Park, Hyundai Mobis</p>	
11:40	<p>26SNVH-0062/2026-01-0693</p> <p>High-frequency mount characterization: a comparison of methodologies</p> <p>Fabio Bianciardi, Siemens Industry Software</p>	<p>26SNVH-0048/2026-01-0719</p> <p>NoiseSphere: An AI-Based Approach for Dynamic and Large-Scale Noise Mapping</p> <p>Josef Girstmair, Virtual Vehicle Research Center</p>	
12:00	<p>26SNVH-0054/2026-01-0697</p> <p>Feasibility of Hybrid Dynamic Substructuring for Structural Modifications in Automotive Suspension Subsystems</p> <p>Munhwan Cho, Hyundai Motor Co</p>	<p>26SNVH-0079/2026-01-0716</p> <p>AI-Based Package Tray Design Method for Controlling Acoustic Modes in a Sedan</p> <p>Jin Woo Lee, Ajou University</p>	
12:20	Room Change		
	<i>congress room n. 1</i>		
12:25	<p>Congress Summary, Best Paper Award & Concluding remarks</p>		
12:40	Lunch Break		
13:40	<p>Informal Get-Together & End of Congress</p>		