

Session Program

8–12 Sept 2026

Forum Acusticum 2026

***A10.02 Metamaterials for noise and vibration reduction:
applications and experimental methods***

Friday 11 September

09:00

A10.02 Metamaterials for noise and vibration reduction: applications and experimental methods: P475

Session | Location: Messe Congress Graz, Messehalle (Poster+Exhibition) | Conveners: Elena Shabalina, Jacques Cuenca

09:00–12:00

Broadband Sound Absorption Using Weakly Coupled Parallel- Arranged Helmholtz Resonators in Acoustic Metasurfaces

Speaker

FAISAL RAFIQUE

12:00

10:40

A10.02 Metamaterials for noise and vibration reduction: applications and experimental methods: S061

Session | Location: Messe Congress Graz, Saal 11A | Conveners: Elena Shabalina, Jacques Cuenca

10:40–11:00

Parametric Investigation of Tesla Valve-inspired Acoustic Metamaterials for Tunable Low-frequency Sound Absorption in Cementitious Composites

Speaker

Alemayehu Moges Kebede

11:00–11:20

Labyrinth Type Gossembrot-Inspired Metamaterial for Low- Frequency Sound Attenuation

Speaker

Erfan Asgari

11:20–11:40

Design of a Phase Gradient Metamaterial with perforated foams

Speaker

Adrien Guthapfel

11:40

14:20

A10.02 Metamaterials for noise and vibration reduction: applications and experimental methods: S516

Session | Location: Messe Congress Graz, Saal 11A | Conveners: Jacques Cuenca, Elena Shabalina

14:20–14:40

Molded acoustic metamaterial for automotive door noise reduction: experimental validation in real vehicle

Speaker

Sunao Tomita

14:40–15:00

Metamaterial design and optimization methods for a low-height noise barrier for railways

Speaker

Domenico De Salvio

15:00–15:20

Design and Modelling of an Acoustic Metasurface for Low- frequency Room Mode Absorption

Speaker

Juan Luis de la Torre Moral

15:20