

Session Program

8–12 Sept 2026

Forum Acusticum 2026

***A10.07 Micro-perforated and Helmholtz-type resonant
absorbers: modelling and characterisation***

Wednesday 9 September

08:40

A10.07 Micro-perforated and Helmholtz-type resonant absorbers: modelling and characterisation: S066

Session | Location: Messe Congress Graz, Saal 2 | Conveners: Cedric Maury, Teresa Bravo

08:40–09:00 Slow-sound optimization of rainbow-trapping silencers

Speaker

Teresa Bravo

09:00–09:20 Robustness of Rainbow Trapping Silencers to Low-Speed Flow Effects

Speaker

Cedric Maury

09:20–09:40

Broadband Noise Attenuation in Ventilated Ducts using an Acoustic Black Hole-Micro-perforated Panel Structure

Speaker

Yuchen Zhao

09:40–10:00

Strong fluid-structure interaction effects in subwavelength Helmholtz resonators for underwater acoustics: a comparative study for vibroacoustic design applications

Speaker

Dario Magliacano

10:00

10:20

A10.07 Micro-perforated and Helmholtz-type resonant absorbers: modelling and characterisation: S312

Session | Location: Messe Congress Graz, Saal 2 | Conveners: Teresa Bravo, Cedric Maury

10:20–10:40 Added damping and vibration behavior of a microperforated plate in nonlinear regimes

Speaker

Lucie Gallerand

10:40–11:00 Characterization of micro-perforated materials

Speaker

Felicitas Spörk

11:00–11:20

Modeling and Characterization of Micro-perforated Panel Absorbers with Parallel and Coiled Sub-cavities for Multifunctional Building Acoustic Applications

Speaker

Hequn Min

11:20–11:40

Material Design From Psychoacoustic Targets: Application to Micro-perforated Panels for Sound Absorption

Speaker

Jiahua Zhang

11:40