

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A06.01 Microphone and MEMS transducers

Wednesday 9 September

08:40

A06.01 Microphone and MEMS transducers: S037

Session | Location: Messe Congress Graz, Saal 11B | Conveners: Petr Honzík, Dominik Mayrhofer

08:40–09:00 Diaphragm Sealing Strategies for MEMS Loudspeakers

Speaker

Nils Wittek

09:00–09:20

Time-Domain Modeling of Distortion Reduction in In-Ear MEMS Loudspeakers via Feedback Linearization

Speaker

Romain Liechti

09:20–09:40

Low-Power Push–Pull Actuated Piezoelectric MEMS Loudspeakers

Speaker

Filippo Pietro Perli

09:40–10:00

Modulated ultrasound MEMS loudspeakers – a paradigm shift

Speaker

Dominik Mayrhofer

10:00

10:20

A06.01 Microphone and MEMS transducers: S316

Session | Location: Messe Congress Graz, Saal 11B | Conveners: Dominik Mayrhofer, Petr Honzík

10:20–10:40

Numerical Simulation and Evaluation of Viscous Effects in a Coupled Modulated Ultrasound Microspeaker

Speaker

Tobias Wilczacki

10:40–11:00

Eigenfrequencies of Perforated Plates in MEMS Transducers: an Analytical Approximation

Speaker

Aneta Furmanová

11:00–11:20

Segmented-backplate condenser microphone with controlled directivity: advanced analytical modeling

Speaker

Petr Honzík

11:20–11:40

Miniaturization of bio-inspired MEMS sensors for next-generation hearing aids

Speaker

Claudia Lenk

11:40–12:00

Design, Fabrication, and Packaging of Multi-Band Piezoelectric MEMS Accelerometers for Auditory Prostheses

12:00
15:00
18:00

Speaker
Karl Grosh

A06.01 Microphone and MEMS transducers: P430

Session | **Location:** Messe Congress Graz, Messehalle (Poster+Exhibition) | **Conveners:** Dominik Mayrhofer, Petr Honzík

15:00–18:00

Reduction of nonlinear distortion in condenser microphones: a unified approach for single and dual backplate designs

Speaker
Petr Honzík