

Session Program

8–12 Sept 2026

Forum Acusticum 2026

A13.01 Guided waves for NDT & SHM applications

Thursday 10 September

09:00

A13.01 Guided waves for NDT & SHM applications: P501

Session | **Location:** Messe Congress Graz, Messehalle (Poster+Exhibition) | **Conveners:** Markus Saurer, Robert Nuster, Theodosia Stratoudaki, Lynda CHEHAMI

09:00–12:00 Residual Stress-Induced Shifts of Modal Frequencies Measured by Laser Ultrasound

Speaker
Robert Nuster

12:00

14:20

A13.01 Guided waves for NDT & SHM applications: S090

Session | **Location:** Messe Congress Graz, Saal 11A | **Conveners:** Theodosia Stratoudaki, Markus Saurer, Lynda CHEHAMI

14:20–14:40

Ultrasonic Evaluation of Agra Marble Inlays (Parchin Kari/Pietra Dura) Using Machine Learning for Acoustic Signal Classification: A Heritage NDT Approach

Speaker
Esma Tuzovic

14:40–15:00

Ultrasonic Ellipsometry by 3D Laser Vibrometry for SAW-based Viscoelastic Characterization

Speaker
Aziz BOUZZIT

15:00–15:20

On the role of shear-horizontal plate waves for anisotropic stiffness characterization

Speaker
Daniel A. Kiefer

15:20–15:40

The Use of a Spatial Light Modulator for Increased Flexibility and Efficiency in Laser Ultrasound Array Imaging

Speaker
Hilde Metzger

15:40–16:00

Ultrasonic imaging of internal defect incurred by corrosion in structural steel used in lattice tower

Speaker
Kim Ming NG

16:00

16:20

A13.01 Guided waves for NDT & SHM applications: S355

Session | **Location:** Messe Congress Graz, Saal 11A | **Conveners:** Markus Saurer, Robert Nuster, Theodosia Stratoudaki, Lynda CHEHAMI

16:20–16:40 Subwavelength Damage Imaging Using Nonlinear Guided Wave Propagation

Speaker
Aziz BOUZZIT

16:40–17:00

Detection and Scattering Response Estimation of a Heterogeneity in a Thin Elastic Plate using Lamb Wave Beamforming and Reverberation Analysis**Speaker**

Lynda CHEHAMI

17:00–17:20

Numerical Study on the Effect of Energy Transfer from Primary to Secondary Wave Field with Non-Phase Matched Conditions**Speaker**

Christoph del Castillo Albido

17:20–17:40

Influence of the Spot Size in Transient Grating Spectroscopy**Speaker**

Jakub Kušnir

17:40–18:00

Data-based defect localization with laser ultrasound for samples with dominant higher-order scattering**Speaker**

Markus Saurer

18:00–18:20

Non-contact low-frequency acoustic methods for crack/corrosion pit detection in pipes**Speaker**

Mriganka Shekhar Chaki

18:20