

MONDAY, JULY 9th

8:30 – 9:00	WELCOME
9:00 – 9:30	OPENING SESSION
9:30 – 10:10	Martin Wegener, Karlsruhe Institute of Technology (Germany), <i>Experiments on 3D mechanical metamaterials.</i>
10:10 – 10:30	<i>Sequential Mechanical Metamaterials,</i> Martin Van Hecke <i>et al.</i> , Leiden Institute of Physics (Netherlands).
10:30 – 11:00	COFFEE BREAK
11:00 – 11:20	<i>Optimal Pentamodes for Guiding Stress,</i> Graeme Milton, University of Utah (USA).
11:20 – 11:40	<i>New developments towards seismic metamaterials,</i> Philippe Roux, Isterre, Grenoble (France).
11:40 – 12:00	<i>Seismic isolation of buildings using composite foundations based on metamaterials,</i> Giovanni Finocchio, Unime (Italy).
12:00 – 12:20	<i>Conversion of surface waves in a forest of trees, a homogenization approach,</i> Agnès Maurel <i>et al.</i> , Institut Langevin (France).
12:20 – 12:40	<i>Seismic metamaterials: where is the edge?</i> Sébastien Guenneau Institut Fresnel (France).
12:40 – 14:20	LUNCH BREAK
14:20 – 15:00	Mathias Fink, CNRS, Institut Langevin (France), <i>Wave Control with 'Time Materials'.</i>
15:00 – 15:20	<i>Creating Unique Flows and Functions in Microuidics with Phononics,</i> Jon Cooper University of Glasgow (UK).
15:20 – 15:40	<i>Non-reciprocal elastic wave propagation in piezoelectric phononic crystals with electrical boundary conditions modulated in space and time,</i> Bertrand Dubus, <i>et al.</i> , IEMN, Lille (France).
15:40 – 16:10	COFFEE BREAK
16:10 – 16:30	<i>Development and validation of a wideband steerable acoustic metasurface composed of active electroacoustic resonators,</i> Hervé Lissek <i>et al.</i> , École Polytechnique Fédérale de Lausanne (Switzerland).
16:30 – 16:50	<i>Terahertz acoustics in two-dimensional materials and nanostructures,</i> Anthony Kent, University of Nottingham (UK).
16:50 – 17:10	<i>Parity-Time Synthetic Phononic Media and non-Hermitian Valley Transport,</i> Johan Christensen, Universidad Carlos III de Madrid (Spain)
17:10 – 17:30	<i>Elastic and acoustic waves control using adaptive periodic Interfaces,</i> Morvan Ouisse ¹ and Manuel Collet ² , ¹ FEMTO-ST and ² LTDS (France).
18:30	POSTER SESSION & CHEESE AND WINE PARTY

TUESDAY, JULY 10th

09:00 – 09:40	Davide Bigoni, Universita' di Trento (Italy), <i>Investigation of singular behaviours for flutter instability and configurational forces in structural dynamics"</i>
09:40 – 10:00	<i>Extensive tailorability of sound absorption using acoustic metamaterials,</i> Abdelkrim Khelif, Institut FEMTO-ST (France).
10:00 – 10:20	<i>Push me, pull me far and wide: Double Negative Mechanical Metamaterials,</i> Andrew Alderson Sheffield Hallam University (UK).
10:20 – 11:00	COFFEE BREAK
11:00 – 11:20	<i>Graded mechanical sub-resonant arrays for mode conversion,</i> Daniel Colquitt, University of Liverpool (UK).
11:20 – 11:40	<i>Full Control of Lamb Modes in Phononic Crystal Plates,</i> Daniel Torrent, Universitat Jaume I (Spain).
11:40 – 12:00	<i>A metamaterial approach to the cochlear wave,</i> Fabrice Lemoult et al., Institut Langevin (France).
12:00 – 12:20	<i>Hierarchy, shape change and fractality: their use to design metacompliance and energy dissipation,</i> Fabrizio Scarpa, University of Bristol (UK).
12:20 – 14:00	LUNCH BREAK
14:00 – 14:40	Ping Sheng, Hong Kong University of Science and Technology, <i>Acoustic Metamaterials with Ultra-broadband Absorption and Minimum Thicknesses</i>
14:40 – 15:00	<i>Non-separability of elastic states in scalable multipartite elastic systems,</i> Pierre Deymier, University of Arizona (USA).
15:00 – 15:20	<i>Design, manufacture and application of digital space-coiling metasurfaces,</i> Bruce Drinkwater, University of Bristol (UK).
15:20 – 15:50	COFFEE BREAK
15:50 – 16:10	<i>Metadiffusers, deep subwavelength acoustic diffusers,</i> Vicente Romero-Garcia, Laboratoire d'Acoustique de l'Université du Mans (France).
16:10 – 16:30	<i>Effective boundary conditions for acoustic metasurface with strong near field interactions,</i> Olga Umnova, University of Salford (UK)
16:30 – 16:50	<i>Tunable metasurfaces for elastic waves: numerical simulations and experiments,</i> Andrea Colombi, ETH Zurich (Switzerland).
16:50 – 17:10	<i>Manipulating Sound with Acoustic Metamaterials,</i> Alastair Hibbins, University of Exeter (UK).
17:10 – 17:30	<i>Soft Opals beyond Hypersonic Phononics,</i> Georges Fytas, Max Planck Institute for Polymer Research (Germany).
20:00	GALA DINNER

WEDNESDAY, JULY 11th

9:00 - 09:40	Jensen Li, University of Birmingham (UK), <i>Space-coiling metamaterials: from negative refraction to generating wave illusion.</i>
09:40 - 10:00	<i>Metamaterial plates for controlling flexural waves at low frequencies,</i> José Sanchez-Dehesa, Valence (Spain).
10:00 - 10:20	<i>Soft Acoustic Metamaterials: from 3D locally resonant metafluids to soft porous gradient index metasurfaces,</i> Thomas Brunet et Olivier Poncelet, I2M, Bordeaux (France).
10:20 - 10:50	COFFEE BREAK
10:50 - 11:10	<i>Asymptotically discrete phononic crystals formed by closely spaced cylinders and perforated boxes,</i> Ory Schnitzer et al. Imperial College, London (UK).
11:10 - 11:30	<i>Observation of a phononic quadrupole topological insulator,</i> Sebastian Huber, ETH Zurich (Switzerland).
11:30 - 11:50	<i>A hybrid Wave Based-Finite Element unit cell method to predict the sound transmission loss of locally resonant metamaterials,</i> Claus Claeys, KU Leuven (Belgium).
11:50 - 12:10	<i>Chiral elastic multi-structures and their applications in the wave control for metamaterials,</i> Alexander Movchan, University of Liverpool (UK).
12:10 - 12:30	CLOSING SESSION