MONDAY, JULY 9th WELCOME 8:30 - 9:00 9:00 - 9:30 OPENING SESSION Martin Wegener, Karlsruhe Institute of Technology (Germany), 9:30 - 10:10 **Experiments on 3D mechanical metamaterials.** Seauential Mechanical Metamaterials. 10:10 - 10:30 Martin Van Hecke et al., Leiden Institute of Physics (Netherlands). 10:30 - 11:00 COFFEE BREAK Optimal Pentamodes for Guiding Stress, 11:00 - 11:20 Graeme Milton, University of Utah (USA). New developments towards seismic metamaterials, 11:20 - 11:40 Philippe Roux, Isterre, Grenoble (France). Seismic isolation of buildings using composite foundations based on 11:40 - 12:00 metamaterials, Giovanni Finocchio, Unime (Italy). Conversion of surface waves in a forest of trees, a homogenization approach, 12:00 - 12:20 Agnès Maurel et al., Institut Langevin (France). Seismic metamaterials: where is the edge? 12:20 - 12:40 Sébastien Guenneau Institut Fresnel (France). 12:40 - 14:20 **IUNCH BRFAK** Mathias Fink, CNRS, Institut Langevin (France), 14:20 - 15:00 Wave Control with 'Time Materials'. Creating Unique Flows and Functions in Microuidics with Phononics, 15:00 - 15:20 Jon Cooper University of Glasgow (UK). Non-reciprocal elastic wave propagation in piezoelectric phononic crystals with 15:20 - 15:40 electrical boundary conditions modulated in space and time, Bertrand Dubus, et al., IEMN, Lille (France). 15:40 - 16:10 **COFFEE BREAK** Development and validation of a wideband steerable acoustic metasurface composed of active electroacoustic resonators, 16:10 - 16:30 Hervé Lissek et al., École Polytechnique Fédérale de Lausanne (Switzerland).

Terahertz acoustics in two-dimensional materials and nanostructures.

Johan Christensen, Universidad Carlos III de Madrid (Spain)

Elastic and acoustic waves control using adaptive periodic Interfaces,

Morvan Ouisse¹ and Manuel Collet², ¹FEMTO-ST and ²LTDS (France).

Parity-Time Synthetic Phononic Media and non-Hermitian Valley Transport,

Anthony Kent, University of Nottingham (UK).

POSTER SESSION & CHEESE AND WINE PARTY

16:30 - 16:50

16:50 - 17:10

17:10 - 17:30

18:30

TUESDAY, JULY 10th

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

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