Monday, July 20, 2026

TIME	EVENT	(+)
08:00 - 08:30	Welcome (Amphitheater 1) - R. Craster, B. Davies, S. Guenneau, M. Kadic, B. Ungureanu, M. Sabaté, M. Touboul	
08:30 - 09:30	Thermal (Amphitheater 1) - Chair: Richard Craster	(+)
08:30 - 09:30	› Nonlocality as a design tool in wave-tape and diffusion-type\\ metamaterials - *Martin Wegener, Karlsruhe Institute of Technology*	
09:30 - 10:00	Coffee break	
10:00 - 12:20	Mechanics (Amphitheater 1) - Dynamics - Chairs: Martin Wegener and Yingrui Ye	(+)
10:00 - 10:20	› Activate mechanical metamaterials with large deformation stiffness and (non)-reciprocity controlled by resistive heating - *Olly Duncan, Manchester Metropolitan University*	
10:20 - 10:40	› Active solids - *Anton Souslov, University of Cambridge*	
10:40 - 11:00	› Domain Structures in Spinor Mechanical Metamaterials - *Miroslaw Dudek, University of Zielona Gora*	
11:00 - 11:20	› Edge resonances in elastic structured waveguides - *Michael Nieves, Keele University*	
11:20 - 11:40	› Elastic waves in space-time varying media - *Nistri Fabio, Politecnico di Torino*	
11:40 - 12:00	› Extremal micropolar metamaterials for controlling elastic wave - *Yi Chen, Karlsruhe Institute of Technology*	
12:00 - 12:20	› A novel Generalized Bloch Mode Synthesis and the Wave-based Finite Element Method for the analysis of hydroelastic phononic crystals: modeling and experiments - *Vinícius Mauro de Souza Santos, Université Marie et Louis Pasteur*	
10:00 - 12:20	Acoustics (Amphitheater 2) - Metasurfaces - Chairs: Paulo Piva and Carsten Rockstuhl	(+)
10:00 - 10:20	› Towards reconfigurable soft acoustic metalenses - *Thomas Brunet, Institut de Mécanique et d'Ingénierie de Bordeaux*	
10:20 - 10:40	› SAW Guiding via Resonant Attenuation of a Weakly Bonded Thin Film - *Maroun Abi Ghanem*	
10:40 - 11:00	› Moiré Acoustic Metasurfaces for Dynamic Out-of-Plane Beam Control - *Hong-Tao Zhou, Tianjin University, National University of Singapore*	
11:00 - 11:20	› Multitasking via metamaterials: New paradigms in wave-based computing - *Mostafa Nouh, University at Buffalo [SUNY]*	
11:20 - 11:40	› Scattering Control Mechanisms and Bidirectional Wavefront Engineering with Janus Waterborne Acoustic Metasurfaces - *Chen-Yang Li, Tianjin University, University of Messina*	
11:40 - 12:00	› Synergistic Metasurface Barrier for Ventilated Broadband Acoustic Insulation via Topology Optimization - *HAOBO QI, Tianjin University, Universite de Lorraine*	
12:00 - 12:20	› Nanodroplet induced acoustic Purcell effects - *Chengzhi Shi, University of Michigan*	
10:00 - 12:20	Applied Mathematics (Amphitheater 3) - Chairs: Michael I. Weinstein and Raphaël Assier	(+)
10:00 - 10:20	› Modelling metamaterials on graphs - from steerable angular filters to smart reflecting surfaces - *Gregor Tanner, University of Nottingham*	
10:20 - 10:40	› Acoustic lattice resonances and generalised Rayleigh–Bloch waves - *Malte A. Peter, University of Augsburg*	
10:40 - 11:00	› Geometry of acoustic, elastic and optical black holes - *Sebastiano Cominelli, Dipartimento di Meccanica = Department of Mechanical Engineering [Politecnico Milano]*	
11:00 - 11:20	› A Real-Space Formulation of the Zak Phase via Weyl m-Functions - *Clemens Thalhammer, Seminar for Applied Mathematics*	
11:20 - 11:40	› An Integral Equation Formulation for the Aeroacoustics of Metacontinua - *Umberto Iemma, Università Roma Tre*	
11:40 - 12:00	› Bounds and Limitations to Broadband Quasistatic Passive Cloaking - *Aaron Welters, Florida Institute of Technology*	
12:00 - 12:20	› Spectral approach for an homogenization problem using boundary integral operators - *Anthony Gerber-Roth, Laboratoire de Mécanique et d'Acoustique [Marseille]*	
10:00 - 12:20	Acoustics (Amphitheater 4) - Time modulation - Chairs: Andrea Alù and Alper Erturk	(+)
10:00 - 10:20	› Programmable Eigenmode Steering and Exceptional Points in Spatiotemporal Acoustic Metamaterials - *Jensen Li, University of Exeter*	
10:20 - 10:40	› Surface water waves localization in a disordered time-modulated system - *Svetlana KUZNETSOVA, Univ. Lille, IEMN, Lille, France*	
10:40 - 11:00	› Taming leaky waves with space- and time-modulated acoustic metamaterials - *Emanuele Riva, Department of mechanical engineering, Politecnico di Milano*	

TIME	EVENT	(+)
11:00 - 11:20	› Time Modulated Metasurface for Nonreciprocal Near-Field Coupling - *Marc Dubois, Institut Fresnel*	
11:20 - 11:40	› Time-Modulated Active Willis Metamaterials - *Bogdan Ioan Popa, Université du Michigan = University of Michigan [Ann Arbor]*	
11:40 - 12:00	› Non-reciprocal information transmission based on dynamic synchronization - *Nicolas Noiray, CAPS Laboratory, Department of Mechanical and Process Engineering, ETH Zurich*	
12:00 - 12:20	› Guided acoustic wave generation via evanescent fields using a spatiotemporally modulated plate stiffnesses - *Blaine Gilbert, The University of Texas at Austin*	
12:30 - 14:00	Lunch	
14:00 - 16:00	Keynotes (Amphitheater 1) - Chair: Anastasia Kisil	(+)
14:00 - 14:30	› Auger processes and switching Indium Tin Oxide with femtosecond laser pulses - *John Pendry, Department of Physics [Imperial College London]*	
14:30 - 15:00	› Acoustic impedance matching between air and water - *Andrew Norris, Rutgers University*	
15:00 - 15:30	› Topology and duality in acoustic metamaterials - *Andrea Alu, City University of New York*	
15:30 - 16:00	› Scattering by a random thin coating of nanoparticles - *Laure Giovangigli, École Nationale Supérieure de Techniques Avancées*	
16:00 - 16:30	Coffee break	
16:30 - 18:30	Acoustics (Amphitheater 2) - Chair: Svetlana Kuznetsova and Thomas Brunet	(+)
16:30 - 16:50	› Acoustic Signatures of Architected Metamaterials for Functional Bone Implants - *Giuseppe Rosi, Modélisation et Simulation Multi-Echelle (MSME)*	
16:50 - 17:10	› An illustrated review of different dynamic homogenization regimes for wave propagation in random media - *Régis Cottereau, Laboratoire de Mécanique et d'Acoustique*	
17:10 - 17:30	› An overview of the use of the Wiener-Hopf method in acoustic wave scattering - *Anastasia Kisil, University of Manchester [Manchester]*	
17:30 - 17:50	› Balancing nonlinearity and dispersion in piezoelectric metamaterials for envelope solitons and reservoir computing - *Alper Erturk, Georgia Institute of Technology*	
17:50 - 18:10	› Band Gaps and Physical Bounds from Randomly Distributed Resonators - *Paulo Piva, University of Sheffield*	
18:10 - 18:30	› Characterization of propagation modes and performance evaluation of phononic crystals for underwater noise reduction - *Juliette KESSLER, IEMN, GREENOV-ITES*	
16:30 - 18:30	Mechanics (Amphitheater 1) - Static - Chairs: Krzysztof Dudek and Vinícius Mauro de Souza Santos	(+)
16:30 - 16:50	› Moiré Mechanical Metamaterials - *Preethi Ramesh Narayan, Universidad Carlos III de Madrid = University of Carlos III of Madrid*	
16:50 - 17:10	› Miniature deep-sea soft robot based on chiral metastructures - *Fei Pan, Beihang University*	
17:10 - 17:30	› Altering elastic properties of the f.c.c. hard sphere crystal with nanoinclusions containing aperiodic phase of hard dumbbells - *Narojczyk Jakub, Institute of Molecular Physics Polish Academy of Sciences*	
17:30 - 17:50	› Aperiodic mechanical metamaterials - *Richard Moat, The Open University*	
17:50 - 18:10	› Auxetic Materials: From Natural Systems to Synthetic Architectures - *Ruben Gatt, University of Malta*	
18:10 - 18:30	› Design and characterization of 2-ply Helical Auxetic Yarns with a fully negative Poisson's ratio by mold casting pre-angled core yarns - *Pierre Roberjot, Delft university of Technology, Department of Precision and Microsystems Engineering (PME)*	
16:30 - 18:30	Thermal (Amphitheater 3) - Chairs: Fernando Guevara Vasquez and Ivan Fernandez-Corbaton	(+)
16:30 - 16:50	› Thermal Bianisotropy Induced by Spatial Asymmetry - *Gal Shmuel, Technion - Israel Institute of Technology*	
16:50 - 17:10	› Dynamic Spectral Regulation and Applications of Vanadium Dioxide in Multi-Spectral Regions - *Shuliang Dou, Harbin Institute of Technology*	
17:10 - 17:30	› Non-Hermitian Thermal Coupling Sensor - *Ying Li, Zhejiang University*	
17:30 - 17:50	› Heat Diffusion Invariant - *Liujun Xu, China Academy of Engineering Physics*	
16:30 - 18:30	Mechanics (Amphitheater 4) - Dynamics - Chair: Yi Chen and Fabio Nistri	(+)
16:30 - 16:50	› Some recent research inspired by contributions to waveguide theory by Professor Denys J. Mead - *Sergey Sorokin, Department of Mechanical and Manufacturing Engineering, Aalborg University*	
16:50 - 17:10	› Perfect absorption of flexural waves in vibration transmission problems using point-like resonant scatterers - *Daniele Giannini, KU Leuven*	
17:10 - 17:30	› Nonreciprocal scattering of elastic waves at time interfaces induced by spatiotemporal modulation - *Yingrui Ye*	
17:30 - 17:50	› Seismic wave interaction with buried cavity networks - *Agnès Maurel, ESPCI ParisTech, CNRS*	

TIME	EVENT	(+)
17:50 - 18:10	› Surface Elastic Waves in Lattices - *Srikantha Phani, University of British Columbia*	
18:10 - 18:30	› The Crucial Role of Interfaces in Metamaterial Performance - *Svenja Hermann, TU Dortmund University*	
19:00 - 20:00	Acoustics (Amphitheater 1) - Chair: Sébastien Guenneau	(+)
19:00 - 20:00	› An Acoustic Arms Race – The stunning acoustic defences moths use to avoid becoming a bat's next meal - *Marc Holderied, School of Biological Sciences, University of Bristol*	

Tuesday, July 21, 2026

TIME	EVENT	(+)
08:30 - 09:30	Mechanics (Amphitheater 1) - Chair: Gengkai Hu	(+)
08:30 - 09:30	› Shearing, folding, and vibrating solids and structures - *Davide Bigoni, University of Trento*	
09:30 - 10:00	Coffee break	
10:00 - 12:20	Applied Mathematics (Amphitheater 3) - Chairs: Clemens Thalhammer and Mriganka Shekhar Chaki	(+)
10:00 - 10:20	› Emerging Opportunities for Space-Time Photonic Metamaterials - *Zeki Hayran, Imperial College London*	
10:20 - 10:40	› Geometric spectral properties of electromagnetic waveguides - *Maxence CASSIER, Institut FRESNEL*	
10:40 - 11:00	› Waves within a network of lowly time-modulated interfaces: time-dependent effective properties, reciprocity and high-order dispersion - *Bruno Lombard, Aix Marseille Univ, CNRS, Centrale Marseille, LMA UMR 7031, Marseille, LMA*	
11:00 - 11:20	› Wave propagation across a network of time-modulated interfaces: recovering non-reciprocity through homogenization. - *Raphaël Assier, Department of Mathematics, The University of Manchester*	
11:20 - 11:40	› Error estimation for a homogenized model of a time-modulated metamaterial - *Jean-Francois Mercier, Poems*	
11:40 - 12:00	› A modal analysis of rainbow trapping vs rainbow reflection - *Luke Bennetts, University of Melbourne*	
12:00 - 12:20	› Mechanical inhibition of dissipation in a thermodynamically consistent active solid - *Luca Cocconi, University of Cambridge [UK], Max Planck Institute for Dynamics and Self-Organization*	
10:00 - 12:20	Acoustics (Amphitheater 2) - Chairs: Emanuele Riva and Olga Boyko	(+)
10:00 - 10:20	› Dispersion relation of acoustic waves in metaporous layers - *Jean-Philippe Groby, Laboratoire d'Acoustique de l'Université du Mans*	
10:20 - 10:40	› Elastic wave propagation in stealthy hyperuniform materials - *Tony Valier-Brasier, Institut d'Alembert*	
10:40 - 11:00	› Designing sonic crystals via primitive geometric shapes - *Anna Sukhotinskaya, Technion - Israel Institute of Technology*	
11:00 - 11:20	› Experimental acoustic and vibrational studies of periodic macro-inclusion panels for underwater acoustics applications - *Clément Larcade, IEMN*	
11:20 - 11:40	› From metamaterials to products: challenges across the TRL scale - *Gianluca MEMOLI, University of Sussex, Metasonixx Ltd*	
11:40 - 12:00	› Model-based auralization and optimization of vibro-acoustic metamaterial partitions to reduce annoyance - *Lucas Van Belle, KU Leuven, Deparment of Mechanical Engineering, Flanders Make@KU Leuven*	
12:00 - 12:20	› Contact points open complete band gaps in artificial crystals - *David Röhlig, Université Marie et Louis Pasteur*	
10:00 - 12:20	Mechanics (Amphitheater 1) - Topology - Chairs: Preethi Ramesh Narayan and Jacopo Maria De Ponti	(+)
10:00 - 10:20	› Asymmetric Wave Transport Starting from Zero Frequency in 3D Topologically Elastic Metamaterials - *Feng Li, Beijing Institute of Technology*	
10:20 - 10:40	› Automated Design of Topological Metamaterials via Band Morphology Optimization - *Stefano Gonella*	
10:40 - 11:00	› From Soft Matter Physics to Topological Mechanical Metamaterials - *Di Zhou, Beijing Institute of Technology*	
11:00 - 11:20	› Nonreciprocal topological kink-wave propagation in mechanical metamaterials - *Jinliang Wang, Universite Marie et Louis Pasteur*	
11:20 - 11:40	› Boundary elastic waves in topological soft metamaterials under uniaxial stretching - *Gang-Gang Xu, Tianjin University*	
11:40 - 12:00	› Orbital Degrees of Freedom Enable Extended Su-Schrieffer-Heeger Topology in Elastic Lattices - *Rui Zhu, Beijing Institute of Technology*	
12:00 - 12:20	› Auxetic Higher-Order Topological Insulator with a Tunable Band Gaps - *Eloi Perez Compte, Politecnico di Torino*	

TIME	EVENT	(+)
10:00 - 12:20	Mechanics (Amphitheater 4) - Statics - Chairs: Christelle Combescure and Luke Mizzi	(+)
10:00 - 10:20	› Multifunctionality in Auxetic Materials: From Droplets to Laminates - *Shruti Mandhani, Sheffield Hallam University*	
10:20 - 10:40	› Structural Metamaterials for Enhanced Damping and Thermal Stability in Large Space Structures - *Şerife Tol, University of Michigan System*	
10:40 - 11:00	› Non-reciprocal buckling makes active filaments polyfunctional - *Jack Binysh, University of Amsterdam*	
11:00 - 11:20	› Dynamic Control of Topological Mechanical Metamaterials - *Antonio Gliozzi, Politecnico di Torino*	
11:20 - 11:40	› Shell-lattice metamaterials with intrinsic contact stabilization for exceptional mechanical performance and nonlinear stability - *Xueyan Chen, Harbin Institue of technology*	
11:40 - 12:00	› Non-trivial origami metastructures with superior energy absorption performance - *Pooya Sareh, Newcastle University [Newcastle]*	
12:00 - 12:20	› Selective Plasma Bonding of Silicones for Active Mechanical Metamaterials - *Luke Tinsley, Manchester Metropolitan University*	
12:30 - 14:00	Lunch	
14:00 - 16:00	Keynotes (Amphitheater 1) - Chair: Ying Wu	(+)
14:00 - 14:30	› Bounds on the complex permittivity, complex permittivity, and Q-factors in two-phase composites - *Graeme Milton, The University of Utah*	
14:30 - 15:00	› Spectral properties of hyperbolic and fractal lattices - *Massimo Ruzzene, University of Colorado Boulder*	
15:00 - 15:30	› Rayleigh Waves in 2D Extremal Materials - *Gengkai Hu, Beijing Institute of Technology*	
15:30 - 16:00	› Tunable scattering from spatiotemporally modulated acoustic metasurfaces and finite domains - *Michael Haberman, Walker Department of Mechanical Engineering, The University of Texas at Austin, Applied Research Laboratories, The University of Texas at Austin*	
16:00 - 16:30	Coffee break (Terrasse)	
16:30 - 18:30	Applied Mathematics (Amphitheater 3) - Chairs: Sebastiano Cominelli and Maxence Cassier	(+)
16:30 - 16:50	› Chirality for all seasons: from exceptional points to analogue computing - *Steven Koufidis, Imperial College London*	
16:50 - 17:10	› Sound wave propagation in waveguides with imperfect boundaries - *Mriganka Shekhar Chaki, University of Sheffield*	
17:10 - 17:30	› Tunable quasiperiodic composites and their spectral properties - *Elena Cherkaev, Elena Cherkaev*	
17:30 - 17:50	› Subwavelength localisation in aperiodic resonator arrays - *Alexander Uhlmann, Ecole Polytechnique Fédérale de Zurich*	
17:50 - 18:10	› Universal Chern Models on Arbitrary Triangulations - *Emil Prodan, Yeshiva University*	
16:30 - 18:30	Mechanics (Amphitheater 1) - Dynamics - Chairs: Daniele Giannini and Eloi Perez Compte	(+)
16:30 - 16:50	› Some Practical Aspects of Designing and Validating Metastructures for Vibration Control - *Morvan Ouisse, Université Marie et Louis Pasteur, SUPMICROTECH, CNRS, Institut FEMTO-ST*	
16:50 - 17:10	› Accurate Mode Conversion and Preservation via an Impedance-Guided Elastic Metasurface - *Mu Jiang, Tianjin University, University of Lorraine*	
17:10 - 17:30	› When waves localise: how topological interface states can advance microscale sensing - *Jacopo Maria De Ponti, Politecnico di Milano*	
17:30 - 17:50	› Reconfigurable Topological Waves - *Sayan Jana, Tel Aviv University*	
17:50 - 18:10	› Multiple Scattering Theory for Finite-Width Elastic - *Mario Lazaro, Universitat Politècnica de València*	
16:30 - 18:30	Mechanics (Amphitheater 4) - Statics - Chairs: Davide Bigoni and Shruti Mandhani	(+)
16:30 - 16:50	› Topological Instability in Mechanical Metamaterials - *JINGYI ZHANG, Institute IMDEA Materials [Madrid]*	
16:50 - 17:10	› Negative stiffness mechanical metamaterials: design and application - *Xiaojun Tan, Beihang University*	
17:10 - 17:30	› Limits of linear elastic behavior of lattice materials due to buckling and bifurcation: theoretical and experimental approaches. - *Marc Louis Maurice François, Institut de Recherche en Génie Civil et Mécanique*	
17:30 - 17:50	› Linear and nonlinear metaclusters of scatterers for mechanical energy flow control - *Pawel Packo, AGH University of Science and Technology*	
17:50 - 18:10	› Linking Metamaterial Symmetry and Domain of linearity : New Numerical Insights - *Christelle Combescure, Institut de Recherche Dupuy de Lôme*	
18:10 - 18:30	› Multiscale programmable mechanical metamaterials - *Krzysztof Dudek, University of Zielona Góra*	
16:30 - 18:30	Acoustics (Amphitheater 2) - Chairs: Tony Valier-Brasier and Lucas Van Belle	(+)

TIME	EVENT	(+)
16:30 - 16:50	› Experimental Investigation of Resonant Microdisks for the Creation of a Multiple-Scattering Acoustic Medium - *Olga Boyko, Olga Boyko-Kazymyrenko*	
16:50 - 17:10	› Interplay between zero-index media and topological states - *Changqing Xu, Nanjing Normal University*	
17:10 - 17:30	› Harnessing topological acoustics for applications: Geometric phase computing, engineering and sensing - *Pierre Deymier, University of Arizona*	
17:30 - 17:50	› Hyperuniformity from reaction-diffusion interactions in Turing patterns - *Vicente Romero Garcia, Polytechnic University of Valencia*	
17:50 - 18:10	› Integrated phononic devices for on-chip signal processing: critical dimensions variability - *Omid Reza Ranjbar Naeini, International Iberian Nanotechnology Laboratory*	
18:10 - 18:30	› Attacus MetaSurface - Reverse engineering a natural sound absorber metamaterial - *Marc Holderied, School of Biological Sciences, University of Bristol*	
19:00 - 21:00	Welcome cocktail (corsican style) at the conference venue	

Wednesday, July 22, 2026

TIME	EVENT	(+)
08:30 - 09:30	Mechanics (Amphitheater 1) - Chair: Anastasiia Krushynska	(+)
08:30 - 09:30	› Waves in Multistable Mechanical Metamaterials - *Vincent TOURNAT, Laboratoire d'Acoustique de l'Université du Mans (LAUM), Harvard John A. Paulson School of Engineering and Applied Sciences*	
09:30 - 10:00	Coffee break	
10:00 - 12:20	Acoustics (Amphitheater 2) - Chairs: Agnès Maurel and Emanuele De Bono	(+)
10:00 - 10:20	› Effects of spatial modulation on a electroacoustic absorbant metasurface - *Leonardo Ferreira, Université Marie et Louis Pasteur*	
10:20 - 10:40	› Sensitivity to the boundary condition: from quasi-normal modes of open media to bound states in the continuum - *Vincent Laude*	
10:40 - 11:00	› Wave propagation in weakly disordered honeycomb sandwich panels. - *Stepan Avetisov, LMA, CNRS*	
11:00 - 11:20	› Wave dynamics in a nonreciprocal lattice - *Vassos Achilleos, Laboratoire d'Acoustique de l'Université du Mans*	
11:20 - 11:40	› Metamaterial-Based Acoustofluidic Chip for Wave Control and Particle Manipulation - *Xianchen Xu, Beijing Institute of Technology*	
11:40 - 12:00	› Engineering topologically protected modes inspired by topological insulators - *Camelia Prodan, Fordham University*	
10:00 - 12:20	Applied Mathematics (Amphitheater 3) - Chairs: Bérangère Delourme and David Aznaurov	(+)
10:00 - 10:20	› Wave dispersion and localisation in chiral elastic waveguides subjected to gravity and variable gyricity - *Alexander Movchan, Department of Mathematical Sciences, The University of Liverpool*	
10:20 - 10:40	› Effective mass density in the zero-shear limit of elastodynamics - *william parnell, University of Manchester*	
10:40 - 11:00	› Honeycomb structures perturbed along irrational edges - *Pierre Amenoagbadji, Columbia University*	
11:00 - 11:20	› Parametric Resonance in the LC Circuit: EPD Hypersensitivity and Capacitance Sensing - *Alexander Figotin, Alexander Figotin*	
11:20 - 11:40	› Scattering of transient waves by an interface with time-modulated jump conditions - *Michaël Darche, Laboratoire de Mécanique et d'Acoustique [Marseille]*	
11:40 - 12:00	› Homogenization of resonant bubble screens: influence of bubble shape and lattice arrangement - *Kim Pham, ENSTA*	
12:00 - 12:20	› Acoustic Scattered Field Calculation for a Moving Source Using Time-Dependent Physical Optics - *Lea Sirota, School of Mechanical Engineering, Tel Aviv University*	
10:00 - 12:20	Mechanics (Amphitheater 1) - Static - Chairs: Dennis Kochmann and Paolo Han Beoletto	(+)
10:00 - 10:20	› Development, mechanical characterisation and optimisation of novel Axisymmetric auxetic metamaterial - *Nejc Novak, University of Maribor*	
10:20 - 10:40	› Disordered Auxetic Metamaterial Frameworks - *Luke Mizzi, University of Modena and Reggio Emilia*	
10:40 - 11:00	› Dynamics and Elasticity of origami-like beams and plates - *Igor Berinskii, Tel Aviv University*	
11:00 - 11:20	› From articulated-bi-parallelogram trusses to third gradient 1D continua - *Claude Boutin, École Nationale des Travaux Publics de l'État*	
11:20 - 11:40	› Hyperelastic Mechanical Metamaterials with Skin-like Behavior - *Qingxiang JI, Université Marie et Louis Pasteur*	

TIME	EVENT	(+)
11:40 - 12:00	› Lightweight and rigid metamaterials based on random micro-lattice architectures - *Thuy Nguyen, DVRC & SPEC CEA Saclay*	
12:00 - 12:20	› Enhancing Dielectric Elastomer Energy Harvesting through Collapsible Metamaterial Architectures - *Arnob Dutta, Département de Physique*	
10:00 - 12:20	Mechanics (Amphitheater 4) - Dynamics - Chairs: Svenja Hermann and Pavel Galich	(+)
10:00 - 10:20	› Traveling waves in a nonlinear lattice with nonreciprocal coupling - *Behrooz Yousefzadeh, Concordia University*	
10:20 - 10:40	› Vibrations in a finite-size microstructured Euler-Bernoulli beam:homogenization and edge effects - *Antoine Rallu, ENTPE*	
10:40 - 11:00	› Viscoelastic phononic crystals for vibration isolation: a material study - *Bart Van Damme, Empa, Laboratory for AcousticsandNoise Control*	
11:00 - 11:20	› Wave based manipulation and reading of mechanical memory in a mass-in-mass metamaterial - *Audrey Watkins, Harvard University*	
11:20 - 11:40	› Homogenized model of a prestressed ladder beam – Application to buckling - *Stanislas Antczak, University of Lyon, ENTPE*	
11:40 - 12:00	› Size effects and dynamic behavior in mechanical metamaterials: a relaxed micromorphic study - *Mohammad Sarhil, TU Dortmund University*	
12:00 - 12:20	› Frustrated Active Metamaterial - *Rupesh Rupesh Mahore, Universiteit van Amsterdam - Corentin Coulais, Universiteit van Amsterdam*	
12:30 - 14:00	Lunch	
14:00 - 16:00	Keynotes (Amphitheater 1) - Chair: William Parnell	(+)
14:00 - 14:30	› Design of Metamaterials - *Dennis Kochmann, ETH Zurich*	
14:30 - 15:00	› Photonic Time-Crystals - *Mordechai (Moti) Segev, Technion*	
15:00 - 15:30	› Non-Hermitian Topological Mode Morphing in Active Metabeams: Continuum Formulation and Experimental Validation - *Guoliang Huang, Peking University [Beijing]*	
15:30 - 16:00	› The Mosaic Approach to Acoustic Metamaterials Design - *Ping Sheng, Hong Kong University of Science and Technology and Clare Hall*	
16:00 - 16:30	Coffee break	
16:30 - 18:30	Mechanics (Amphitheater 1) - Dynamics - Chairs: Claude Boutin and Bart Van Damme	(+)
16:30 - 16:50	› Extreme damping and time-varying material parameters in elastic metamaterials: from theoretical prediction to experimental validation - *Kaijun Yi, Beijing Institute of Technology*	
16:50 - 17:10	› Extreme wave focusing in nonlinear mechanical metamaterials - *Jinkyu Yang, Seoul National University*	
17:10 - 17:30	› Integrating Bragg scattering, local resonance, and contradirectional coupling: a path towards wide elastic band-gap engineering - *Elisabetta Manconi, University of Parma*	
17:30 - 17:50	› Magnetic-Field Sensitivity of Shear Waves in Isotropic Magneto-Active Polymers - *Pavel Galich, Technion - Israel Institute of Technology*	
17:50 - 18:10	› Modeling wave propagation and boundary effects in vibroacoustic metamaterials by a relaxed micromorphic continuum - *Svenja Hermann,TU Dortmund University*	
18:10 - 18:30	› Multifunctional composite metastructures - *Yabin Jin, Fudan University*	
16:30 - 18:30	Applied Mathematics (Amphitheater 3) - Chairs: Lea Sirota and Michaël Darche	(+)
16:30 - 16:50	› Wave localisation in periodic media. - *Yannick De Bruijn, University of Oslo*	
16:50 - 17:10	› Wave Control through Topology Optimization: Acoustic Rainbow Devices and Topological Insulators - *Rasmus Christiansen, Technical University of Denmark*	
17:10 - 17:30	› Numerical simulation of metasurfaces (joint work with I. Chollet, N. Grenèche and P.H. Tournier). - *Bérangère Delourme, Université Sorbonne Paris Nord*	
17:30 - 17:50	› Structures, properties, and fields in optimal multi-material structures - *Andrej Cherkaev, Andrej Cherkaev*	
17:50 - 18:10	› A scattering perspective on acoustic metamaterials - *Carsten Rockstuhl, Karslruhe Institute of Technology*	
18:10 - 18:30	› Machine Learning Methods for Chiral Elastic Cloaking Using a Differentiable FEM Framework - *David Aznaurov, Institute of Mechanics*	
16:30 - 18:30	Acoustics (Amphitheater 2) - Chairs: Stepan Avetisov and Vassos Achilleos	(+)
16:30 - 16:50	› Experimental demonstration of three-dimensional Anderson localization of scalar classical waves - *Fanambinana Delmotte, Université Paris Cité*	
16:50 - 17:10	› Tunability of electrically controlled piezoelectric phononic crystals - *Anne-Christine Hladky, Université de Lille, IEMN*	

TIME	EVENT	(+)
17:10 - 17:30	› Robust Topological Optomechanical coupling in 1D SSH PhoXonic crystals - *yan pennec, Institute of Electronic, Microelectonic and Nanotechnology*	
17:30 - 17:50	› TOWARD NONLINEAR METAMATÉTRIAL PROGRAMMING - *Emanuele De Bono*	
17:50 - 18:10	› Architected Metamaterials for Low-Frequency Noise Mitigation and Energy Harvesting from Walking - *Xingyun LI, Institut d'Électronique, de Microélectronique et de Nanotechnologie - UMR 8520*	
18:10 - 18:30	› Harnessing Electro-Momentum Coupling for Programmable Directional Wave Control in Active Piezoelectric Metamaterials - *Hrishikesh Danawe, Indian Institute of Technology Bombay*	
20:00 - 22:00	Gala dinner at the conference venue	

Thursday, July 23, 2026

TIME	EVENT	(+)
08:30 - 09:30	Applied Mathematics (Amphitheater 1) - Chair: Laure Giovangigli	(+)
08:30 - 09:30	› Quantum tunneling and its complete suppression in strongly magnetic systems - *Michael Weinstein, Columbia University*	
09:30 - 10:00	Coffee break (Terrasse)	
10:00 - 12:20	Acoustics (Amphitheater 2) - Absorption - Chairs: Steven Cummer and Oliver Wright	(+)
10:00 - 10:20	› Rayleigh waves mitigation in granular media via a terraced metasurface - *Nikos Aravantinos-Zafiris, Department of Environment, Ionian University, Zakynthos, 29100, Greece*	
10:20 - 10:40	› Metafluid interpretation of sonic black holes in ducts: rainbow trapping versus black-hole effect - *Oriol Guasch, Human-Environment Research (HER) group, Department of Engineering, La Salle, Universitat Ramon Llull (LS - URL)*	
10:40 - 11:00	› Two-dimensional sonic black holes for wave trapping and noise reduction - *Jie Deng, Human-Environment Research (HER) group, Department of Engineering, La Salle, Universitat Ramon Llull*	
11:00 - 11:20	› Noise reduction in turbulent flows using graded labyrinthine metamaterials - *Federico Bosia, Politecnico di Torino [Torino]*	
11:20 - 11:40	› Numerical study of a hybrid active-passive metamaterial sound absorber - *Felix Langfeldt, University of Southampton*	
11:40 - 12:00	› Sound transmission characteristics of anisotropic metamaterial slabs - *Vinicius Dal Poggetto, Universitat Politècnica de València = Universitad Politecnica de Valencia = Polytechnic University of Valencia*	
10:00 - 12:20	Applied Mathematics (Amphitheater 3) - Chair: Pierre Amenoagbadji and Andrej Cherkaev	(+)
10:00 - 10:20	› Quantitative multiscale operator approximations for high-contrast subwavelength resonances - *Valery Smyshlyaev, University College of London*	
10:20 - 10:40	› Nonlinear Topological Mechanical Metamaterials : acoustic control of kinks - *Georgios Théocharis, Laboratoire d'Acoustique de l'Université du Mans*	
10:40 - 11:00	› Bayesian Meshless Methods for Scattering and Inverse Problems - *Artur Gower, University of Sheffield*	
11:00 - 11:20	› On the surface Bloch waves in truncated periodic media - *Bojan Guzina, University of Minnesota*	
11:20 - 11:40	› On the design of metacontinua in the aeroacoustic spacetime - *Giada Colombo, Department of Civil, Computer Science and Aeronautical Technologies Engineering, Roma Tre University*	
11:40 - 12:00	› Optimization of metasurfaces using locally periodic resonant homogenization - *Nicolas Lebbe, LAPLACE*	
10:00 - 12:20	Mechanics (Amphitheater 1) - Chair: Arthur Lebée and José Bico	(+)
10:00 - 10:20	› From non linearity to metamaterials for robotics advanced performances - *Kanty Rabenorosoa, Université Marie et Louis Pasteur*	
10:20 - 10:40	› Investigation of the Mechanical Response of Additively Manufactured PEEK Metamaterials under Varying Environmental Conditions - *Bo Cao, Northwestern Polytechnical University*	
10:40 - 11:00	› Stability, Features, and Constraints in Non-Local Phononic Crystals with Beyond-Nearest-Neighbor Interactions - *Pai Wang, The University of Utah*	
11:00 - 11:20	› Gradiometric sensors design for sub-Nyquist wavefield reconstruction - *Davide Piciucco, ETH Zurich*	
11:20 - 11:40	› Flattening curved surfaces - *Paolo Han Beoletto, Politecnico di Torino*	
11:40 - 12:00	› Automatic Differentiation for Nonlinear Mesh Optimization - *Acuña Daniel, University of Amsterdam*	
12:00 - 12:20	› Optimising mechanical metamaterials for head impact protection in sport - *Harry Plant, Sheffield Hallam University*	

TIME	EVENT	(+)
10:00 - 12:20	Acoustics (Amphitheater 4) - Topology - Chair: Vinicius Dal Poggetto and Vicente Romero	(+)
10:00 - 10:20	› Emergent Unconventional Topological States in Complex Phononic Crystals - *Jihong Ma, University of Vermont [Burlington]*	
10:20 - 10:40	› Topological phases and scattering protected by projective chiral symmetry - *Theo Torres, Laboratoire Interdisciplinaire Carnot de Bourgogne*	
10:40 - 11:00	› Topological localized modes in Hermitian and non-Hermitian periodic or disordered elastic metastructures - *Bahram Djafari-Rouhani, IEMN, CNRS UMR 8520, University of Lille*	
11:00 - 11:20	› Geometric Control of Topological Modes in Segmented Acoustic Waveguides - *Sarah TACHET, Laboratoire de Mécanique et d'Acoustique [Marseille]*	
11:20 - 11:40	› Twofold Topological Phase Transition in a Coupled-Resonator Phononic Molecule - *Rafael Mendez, Instituto de Ciencias Físicas, Universidad Nacional Autónoma de México, C.P. 62210 Cuernavaca*	
11:40 - 12:00	› Ultra-High-Q BIC-Enabled Underwater Acoustic Metasurfaces for Coherent Perfect Absorption and Ultrasensitive Sensing - *Abdelkrim Khelif, College of Science and Engineering, Hamad Bin Khalifa University*	
12:00 - 12:20	› Modal Confinement by Curvature: Quasimodes at the Photon Sphere in an Acoustic Black Hole - *Jiaoqing Wang, Bar-Ilan University [Israël]*	
12:30 - 14:00	Lunch	
14:00 - 16:00	Keynotes (Amphitheater 1) - Chair: Felix Langfeldt	(+)
14:00 - 14:30	› Mechanical metamaterials for implants: from design to clinical application - *Anastasiia Krushynska, University of Groningen [Groningen]*	
14:30 - 15:00	› Physics Driven Design and Digital Fabrication of Metamaterials - *Nicholas Fang, University of Hong Kong*	
15:00 - 15:30	› Phononic subsurfaces: Flow control by wave synchronization across the fluid-structure interface - *Mahmoud I. Hussein, University of Colorado*	
15:30 - 16:00	› Acoustofluidics and Metamaterials - *Steven Cummer, Duke University*	
16:00 - 16:30	Coffee break (Terrasse)	
16:30 - 18:30	Thermal (Amphitheater 3) - Chair: Gal Shmuel and Liujun Xu	(+)
16:30 - 16:50	› "Thermal radiation via Hilbert space methods " - *Ivan Fernandez-Corbaton, Karslruhe Institute of Technology*	
16:50 - 17:10	› Temperature-selective emitter - *Hang Wei, Soochow University*	
17:10 - 17:30	› Active thermal cloaking - *Fernando Guevara Vasquez, Department of Mathematics - University of Utah*	
16:30 - 18:30	Mechanics (Amphitheater 1) - Dynamics - Chair: Elisabetta Manconi and Abdelkrim Khelif	(+)
16:30 - 16:50	› Design of interface states using canonical phononic waveguides - *Lorenzo Morini, Department of Mechanical, Chemical and Materials Engineering, University of Cagliari*	
16:50 - 17:10	› Non-Newtonian mechanical metamaterials and their potential applications - *Lianchao Wang, IMDEA Materials Institute*	
17:10 - 17:30	› On microstructures realizing all elastic Quadramode materials - *Christian Kern, University of Utah*	
17:30 - 17:50	› Topological instability and reentrant crystallization in active solids - *Zory Davoyan, University of Cambridge [Cambridge, UK]*	
17:50 - 18:10	› From Periodic Bandgaps to Stealthy Disorder Modal Reorganization in Diatomic Mechanical Chains - *Sivan Levi, The University of British Columbia*	
16:30 - 18:30	Acoustics (Amphitheater 2) - Chair: Sarah Tachet and Jie Deng	(+)
16:30 - 16:50	› Omnidirectional and anomalous acoustic absorption with an array of wiremeshes - *Vincent Pagneux, Laboratoire d'acoustique de l'université du Maine*	
16:50 - 17:10	› Some non-Hermitian and modulated acoustic topological crystals - *Baile Zhang, Nanyang Technological University*	
17:10 - 17:30	› Boundary convection, a special type of nonlocality to achieve nonreciprocal acoustic propagation - *Emanuele De Bono, University of Naples*	
17:30 - 17:50	› Scanning near-field acoustic imaging with a zero-mass meta-atom - *Oliver Wright, Hokkaido University, The University of Osaka*	
17:50 - 18:10	› Microrobots actuated by optical tweezers for enhanced optomechanical performance - *Alaa Ali, Franche-Comté Électronique Mécanique, Thermique et Optique - Sciences et Technologies (UMR 6174)*	
16:30 - 18:30	Mechanics (Amphitheater 4) - Statics - Chair: Kanty Rabenorosoa and Bahram Djafari-Rouhani	(+)
16:30 - 16:50	› MatAIRials: Isotropic Inflatable Metamaterials for Freefrom Surface Design - *Arthur Lebée, Laboratoire Navier*	
16:50 - 17:10	› Mechanical metamaterials with integrated intelligence - *Chang Chen, Tsinghua University*	

TIME	EVENT	(+)
17:10 - 17:30	› Mechanical Metamaterials with composite periodic lattice truss materials - *Jian Xiong, Harbin Institute of Technology*	
17:30 - 17:50	› Design and characterization of programmable liquid crystal micro-actuators made by two-photon polymerization - *Arnaud Spangenberg, Institut de Science des Matériaux de Mulhouse*	
17:50 - 18:10	› Shaping pneumatic architected structures - *Jose Bico, PMMH*	
18:10 - 18:30	› Memory effects under vectorial drive - *Colin Meulblok, AMOLF, Amsterdam, Leiden Institute of Physics, University of Leiden (LION)*	
19:00 - 22:00	Boat tour - Sunset at the "Iles sanguinaires", wine and charcuterie tasting, and possibility to swim	

Friday, July 24, 2026

TIME	EVENT	(+)
08:30 - 09:30	Acoustics (Amphitheater 1) - Chair: Martin Van Hecke	(+)
08:30 - 09:30	› Effective medium theories and their applications in metamaterials - *Ying Wu, King Abdullah University of Science and Technology*	
09:30 - 10:00	Coffee break (Terrasse)	
10:00 - 11:30	Keynotes (Amphitheater 1) - Chair: Michael Haberman	(+)
10:00 - 10:30	› Mechano-X - *Nicola Pugno, University of Trento, Queen Mary University of London*	
10:30 - 11:00	› Massively Multistable Metamaterials - *Martin Van Hecke, FOM Institute for Atomic and Molecular Physics*	
11:00 - 11:30	› Explicit fully-coupled nonlocal constitutive relations for a randomly-laminated composite and their implications - *John R Willis, University of Cambridge [Cambridge, UK]*	
11:30 - 12:00	Closing ceremony (Amphitheater 1) - METAMAT	
12:00 - 14:00	Departure in maritime shuttle for a lunch at a beachfront restaurant (La Plage Blanche)	