

AFPAC Programme

Wednesday 21 January 2026

10:00 AM - 10:30 AM	Registration and Arrival Refreshments
10:30 AM - 10:40 AM	Welcome
10:40 AM - 11:10 AM	Invited Speaker: Bertrand Dubus , University of Lille, CNRS Space-time phononic crystals
11:10 AM - 12:30 PM	Morning Session 1 11:10 AM - 11:22 AM Jennifer Jobling , Rolls-Royce Quantitative Phase Characterisation of Nickel-Based Superalloy Inconel 718 Using Ultrasound 11:22 AM - 11:34 AM William Lucas Ultrasonic Interferometry for the characterization of localized porosity in stratified composites 11:34 AM - 11:46 AM Wanqi Zheng , University College London A simulation framework for optimising Fabry- Pérot fibre optic hydrophones 11:46 AM - 11:58 PM Nicolas Leymarie , Université Paris-saclay, Cea, List Numerical Characterisation of Elastic Wave Propagation in Fibre-Textured Polycrystals: Example of Complex-Valued Stiffness Evolution with Microstructural Parameters 11:58 AM - 12:10 PM Lisa Justiniany , Laboratoire De Mécanique Et D'acoustique X-ray and Ultrasound-Based Multiphysical Study of Bone' Breakage and Archaeozoology Application 12:10 PM - 12:22 PM Lynda Chehami Lamb Wave Imaging and Estimation of Defect Scattering Response via the Analysis of Reverberating Coda Waves in Thin Elastic Plates
12:30 PM - 1:30 PM	Lunch
1:30 PM - 3:30 PM	Afternoon Session 2 1:30 PM - 1:42 PM Junsun Hwang , EPFL Small-scale actuators powered by sound waves travelling through air 1:42 PM - 1:54 PM Soma Mochizuki Manually reconfigurable phased array 1:54 PM - 2:06 PM Joshua Mukherjee , University College London AcousTools: A Python Library for 'full-stack' acoustic holography 2:06 PM - 2:18 PM Yusuke Koroyasu , University Of Tsukuba Experimental Demonstration of Acoustic Levitation in High-Pressure Regions Using Zero-Order Bessel Beams 2:18 PM - 2:30 PM Martin Weber , University Of Helsinki Sound-matter interaction in acoustic 3D printing

	2:30 PM - 2:42 PM Barnaby Emmens Reconfigurable Phased Array Acoustic Tweezers for Manipulating Biomedical Samples in Petri Dishes 2:42 PM - 2:54 PM Sandy Cochran, University of Glasgow A Dexterous Integrated Ultrasonic Array for High Intensity Beamforming in Water 2:54 PM - 3:06 PM Dmitrii Nikolaev Acoustophoretic guidance of particles in air using an airborne phased array 3:06 PM - 3:18 PM Juliette Pierre, Institut D'alembert – Cnrs Origin of the sound produced by a newborn bubble
3:30 PM - 4:00 PM	Afternoon Break
4:00 PM - 5:30 PM	Afternoon Session 3 4:00 PM - 4:12 PM David Shaw, University Of Strathclyde Enhanced Transduction in ZnO SAW Devices via Metallic Zn Seed Layer 4:12 PM - 4:24 PM Juan Pablo Escudero, CNRS LAUM Using Wiremesh Gratings to mimic Anechoic Environments 4:24 PM - 4:36 PM Elmergue Germano Characterisation and Performance Analysis of Pz29-Based 4 MHz Ultrasonic Transducers for Through-Metal Communication 4:36 PM - 4:48 PM Kirill Horoshenkov, University Of Sheffield Basic physics rules behind a successful sustainable acoustic absorber 4:48 PM - 5:00 PM Antton Goicoechea, Sorbonne University Propagation of Acoustic Waves in Correlated Systems 5:00 PM - 5:12 PM Florent Dorlot, Institut Langevin – ESPCI Reconfigurable and active time-reversal metasurface turns walls into sound routers 5:12 PM - 5:24 PM Andrea Achilleos, University College London Omnidirectional Wave Control Using Polyhedral Acoustic Metasurfaces
7:00 PM - 10:00 PM	Dinner