

AFPAC Programme

Friday 23 January 2026

9:00 AM - 9:30 AM	Invited Speaker: Elly Martin, University College London Transcranial ultrasound for spatially-precise modulation of the deep brain
	Morning Session 7 9:30 AM - 9:42 AM Xuan Li, University of Southampton A miniature ultrasonic surgical device based on a flexextensional configuration with a pre-stressed PZT stack 9:42 AM - 9:54 AM Faraz Amini A Cymbal Transducer as a Single Element Device for Enhanced Cavitation Generation 9:54 AM - 10:06 AM James An Measurement of Fracture Parameters from Ultrasound Images Using Convolutional Neural Networks 10:06 AM - 10:18 AM Alexandr Kiyashko Assessing the Variability of Textured Piezoceramics: Comparison with Hard Piezoceramics for High-Power Ultrasonic Applications 10:18 AM - 10:30 AM Liuyu Chang A Piecewise Random Walk Model for Hydrogen-Induced Cracks 10:30 AM - 10:42 AM Matt Chandler, CFMS Bounce: An HPC-scale elastodynamic finite element solver for ultrasonic non-destructive testing applications 10:42 AM - 10:54 AM Hasan Koruk, National Physical Laboratory Estimation of phase response and uncertainty in ultrasonic hydrophones
9:30 AM - 11:10 AM	
11:10 AM - 11:30 AM	Morning Break
11:30 AM - 1:00 PM	Morning Session 8 11:30 AM - 11:42 PM Ben Cox, University College London Fourier-Neumann Numerical Models of Acoustic Propagation 11:42 AM - 11:54 PM Philippe Lasaygues, Cnrs-Ima Insights into a multi-frequency coded excitation method for enhanced morphometric ultrasound computed tomography 11:54 AM - 12:06 PM Oscar Bates, Imperial College London Skull template registration from acoustic data by manifold optimisation and full-waveform inversion 12:06 AM - 12:18 PM Arthur Jaccottet, University College London Development of a Capacitive Sensor for Shear Wave Elastography of Prostate Tissue 12:18 AM - 12:30 PM Andre Victor Alvarenga, National Physical Laboratory Uncertainty of Shear Wave Speed Measurements in ARFI Ultrasound Elastography 12:30 AM - 12:42 PM Romann Fernandes, Greman Insa Cv Characterization of functionnal bio-based polymers for high frequencies medical imaging

	12:42 AM - 12:54 PM Damien Kuntz, Cea List Paris-Saclay Self-adaptive extraction of the geometric and acoustic properties of the skull for transcranial ultrasound imaging
1:00 PM - 1:30 PM	Lunch (grab and go) and Depart