IOP Imaging of Elasticity Meeting 22nd May 2026

University of Nottingham, B3 – Life Sciences Building, University Park, NG7 2RD

10 am Reception / Coffee

10:20	Prof. Matt Clark	**INTRODUCTION**
10:30	**Dr. Raman Maiti**	**INVITED TALK: Bridging Structure, Mechanics, and Biomedical Applications**
11:00	Salhi Nassimi	Tactile and Ultrasonic imaging for next generation breast cancer screening
11:15	Yi Zheng	Acoustic and elastic characterisation of ex-vivo tissue and tissue mimics for elastography validation.
11:30	Ian Chai	Investigating intratumoural variations in bladder tumour stiffness using vibration-based shear wave elastography (VSWE) and its relationship with stromal collagen architecture
11:45		COFFEE / TEA
12:00	Dr. Wenqi Li	Elasticity imaging by laser-generated surface acoustic waves on metals made by advanced manufacturing techniques
12:15	Dr. Carolina Guerra	Analysis of Stiffness Tensor Variations in Conventionally Fabricated and LPBF Fe-50%Ni Alloys Using SRAS
12:30	Dr. Rafael Fuentes-Dominguez	Spatially Resolved Acoustic Spectroscopy: from hard to soft materials elastic characterisation
12:45	Dr. James Blackwell	Liver Stiffness in Fontan Circulation Assessed by 2D Shear Wave Elastography
13:00	Owen White	Repeatability and reproducibility of 2D and 3D MRE at 1.5T and 3T in the liver of healthy volunteers
13:15	Dr. Henrik Hagemann	Quantifying non-invasive longevity interventions in musculoskeletal tissue with shear wave elastography
13:30		LUNCH
14:15	**Prof. Massimo Vassili**	**INVITED TALK: Exploring the interplay between mechanics and mechanosensing**
14:45	Dr. Amanda Wright	Broadband micro-rheology of a single chromosome – exploring the role of the chromosome periphery
15:00	Dr. Rafael Fuentes-Dominguez	Nanobells: towards elasticity imaging at the nanoscale
15:15	Prof. Heiko Tzschatzsch	Histology-inspired reconstruction and analysis of microscopic tissue structure using sonography: SonoHisto
15:30	David Large	Visco-elasticity and the Material Nature of Peat
15:45		COFFEE / TEA
16:15	Josephine Pearce	Enhanced Elastography Through Improved Displacement Tracking with Coherent Multi-Transducer Ultrasound
16:30	Mitra Gupta	Influence of Imaging SNR and Excitation Conditions on Phase-Gradient Shear Wave Elastography
16:45	Dr. Andre Alvarenga	Beyond Hertzian Models: Robust Identification of Young's Modulus in Compliant Phantoms Using Corrected Indentation Protocol
17:00	Fernando Perez-Cota	The sub-cellular elasticity of at-risk agriculture
17:15		FINISHING COMMENTS