

BNASS 2026 Programme

Wednesday 1 st July	
12:30-13:30	Registration and Lunch
13:30-13:45	Opening Ceremony: History and significance of Cutlers' Hall
13:45-14:00	Welcome address: BNASS 2026 Organising Committee
Session 1: Environmental Applications and Sustainability	
14:00-14:40	Keynote Speaker: Adrien Mestrot, University of Bern, Switzerland Arsenic and antimony in soils and beyond. Novel sampling and speciation techniques, fieldwork and laboratory incubations help shed light into less studied parts of their biogeochemical cycle.
14:40-15:00	Aiman Rizvi, University of Strathclyde, UK Plant Powered Purification: Sorption of Arsenic and Chromium by using Tannic acid-Sodium Alginate Hydrogel beads
15:00-15:20	Pierre Couture, University of Surrey, UK Ion beam analysis of passive bio-indicators for probing traffic-related pollution along an urban-rural gradient from Guildford to Greater London
15:20-15:50	Refreshment Break
15:50-16:10	Platinum Sponsor: Clement Elliott, Shimadzu, UK Sensitivity vs. Robustness
16:10-16:30	Christine M Davidson, University of Strathclyde, UK Improving the Sustainability of Trace Element Analysis through Plastic Sample Vial Re-use
16:30-16:50	Sarah Hill, National Measurement Laboratory, LGC, UK Metrological advances to support recycling of technology critical elements from e-waste to support the circular economy
16:50	Early finish for the World Cup England Game...
17:15	Group walk to Riverside, about 15 mins (evening social event/meal venue)
19:00	Evening Social Event – BBQ and quiz at the Riverside (and showing the football)

Thursday 2nd July

Session 2: Nano- and Microparticles

09:30-10:10	Keynote: Katrin Löschner, Technical University of Denmark, Denmark Nanoparticles in Foodstuffs: What Single Particle ICP MS Can (and Can't) Tell Us
10:10-10:30	Tatiana Pedrazzi, University of Brescia, Italy Nanotoxicology of metals: Environmental monitoring and biomonitoring of metal nanoparticles in welders
10:30-10:50	Phil Shaw, Nu Instruments, UK Gaining a deeper understanding of multi-dimensional nanoparticle data using Uniform Manifold Approximation and Projection (UMAP) and Hierarchical Density-Based Spatial Clustering of Applications with Noise (HDBSCAN)
10:50-11:20	Refreshment Break
11:20-11:40	Invited Speaker: Bamikole Walter Osungbemi, University of Strathclyde, UK Desorption of Cd, Cr and Pb from polyamide-6, poly(ethylene terephthalate) and polypropylene microplastics
11:40-12:00	Emma Braysher, National Physical Laboratory, UK Application of element ratio and isotope ratio measurement to ambient particulate matter samples
12:00-12:20	Shaun Lancaster, University of Leoben, Austria From lectures to investigations: project-based teaching of spectroscopy concepts to inspire future analytical chemists
12:20-14:00	Lunch
13:10-14:00	Joe Ready & David Price, Elemental Scientific Solutions for Elemental Analysis: Latest advancements in sample introduction, lab automation and laser ablation

Session 3: Methodological Developments

14:00-14:20	Platinum Sponsor: Sonia North, Agilent Technologies, UK Optimising ICP-MS Analysis: Enhancing Helium Collision and Reaction Cell Modes
14:20-14:40	Julian Tyson, University of Massachusetts, USA Expressing the agreement between the measured value and the certificate value: A closer look at the t-test
14:40-15:00	Claire Richards, University of Loughborough, UK The development of a GC-ICP-MS interface for the analysis of bromine VOCs
15:00-15:20	Nikolay Solovyev, Atlantic Technological University, Ireland Iodine in Biological Media using ICP-MS: Challenges and Perspectives
15:20-15:50	Refreshment Break
15:50-16:10	Ayush Agarwal, Paul Scherrer Institute, Switzerland From Sampling to Analysis: Measuring Trace Contaminants in Biogas
16:10-16:30	Ben Russell, National Physical Laboratory, UK Developing mass spectrometry-relevant low level radioactivity standards: Results from a European comparison exercise and future developments
16:30-16:50	Jenny Laird, National Physical Laboratory, UK Development of hyphenated techniques with ICP-MS for medical radionuclide separation and detection
16:50-17:20	Lightning Poster Talks
17:20-18:00	Poster Session and Drinks Reception
	Conference Dinner at Cutlers' Hall (food served from 19:00).
21:00	Live music (Take the Seven) and bar at Cutlers' Hall

Friday 3rd July

Session 4: Biological Applications

09:30-10:00	Invited Speaker: James Coverdale Boron on the clock: single-cell ICP-MS reveals rapid BNCT kinetics
10:00-10:20	Philip Holdship, University of Oxford, UK Quantifying Iron in Immune Cells by sc-ICP-MS
10:20-10:40	Alice Fearn, University of Hull, UK Using spatiotemporal metallomics and transcriptomics to identity novel therapeutic targets for diabetic wound repair
10:40-11:10	Refreshment break
11:10-11:30	Rachel Dennis, Loughborough University, UK LA-ICP-MS Analysis of 'Empty' Fingermarks Developed using Vacuum Metal Deposition: A Preliminary Investigation
11:30-11:50	Olivia Doolan, Sheffield Hallam University, UK 3D multi-modal imaging of germinating barley
11:50-12:10	Rebekah Moore, Imperial College London, UK The effect of arbuscular mycorrhiza on zinc phytoavailability, uptake and translocation in rice: a pilot natural stable isotope investigation
12:10-12:30	Prizes and Final Remarks: BNASS Organising Committee
12:30	Lunch and depart