

# Analytical research forum (ARF24)

18 June 2024 | London, UK



## Programme

Tuesday 18 June 2024 (timings are BST)

9:30	Registration and tea/coffee
10.00	<b>Welcome and introductions</b> Zoë Ayres, <i>Open University, UK</i> Victoria Hilborne, <i>University College London, UK</i>
10.05	<b>Session 1</b> (Session Chair: Leon Barron)
10.05	<b>Data analytics and the interface with automation - the lights out analytical science laboratory</b> Tony Bristow <i>AstraZeneca, UK</i>
10:30	<b>Unexpected occurrence of “forever chemicals” in the atmosphere above pristine Amazon Forest, Brazil: High resolution mass spectrometry study</b> Ivan Kourtchev <i>Coventry University, UK</i>
10:45	<b>Measuring exposure to volatile organic compounds in hairspray using wearable photoionization detection monitor</b> Nour Akrass <i>University College London, UK</i>
11:00	<b>Developing a new HPLC-MS method to quantify terrestrial secondary organic aerosol markers at low concentrations in Antarctic ice cores</b> Emilia Bushrod <i>University of Cambridge, UK</i>
11:15	Short break
11:25	<b>Session 2</b> (Session Chair: Claire White)  <b>Panel Discussion: Engaging with the community</b> Melissa Hanna-Brown, <i>University College Cork, Ireland</i> Kemi Oloyede, <i>Imperial College London, UK</i> Graeme Turnbull, <i>Northumbria University, UK</i> Claire White, <i>Selden Research Ltd., UK</i>
12.15	Lunch
13.00	<b>Session 3</b> (Session Chair: Phil Kay)
13:00	<b>2023 Analytical Science early career Prize: Joseph Black Prize</b> <b>Observing reactions at electrochemical and catalytic interfaces with Operando X-ray spectroscopies</b> Robert Weatherup <i>University of Oxford, UK</i>
13:25	<b>Advancing standardisation and traceability in phenylketonuria (PKU) monitoring</b> Chloe Deaves <i>LGC, UK</i>

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13:40	<b>The application of machine learning to predict and solve NMR spectra in structure elucidation</b> Ben Honoré <i>University of Bristol, UK</i>
13:55	<b>Development of quantitative LC-MS/MS assays for protein biomarkers of concentric left ventricular myocardial remodelling using a novel heavy labelling technique</b> Nikita Bhakta <i>University of Leicester, UK</i>
14:10	Poster session and tea/coffee
15:30	<b>Session 4</b> (Session Chair: Victoria Hilborne)
15:30	<b>Evaluation of our chromatography platforms from method development to method transfer</b> Azzedine Dabo <i>GSK, UK</i>
15:55	<b>Wastewater analysis for narcotics detection by direct-injection LC-MS/MS and LC-QTOF-MS: a spatiotemporal investigation in England</b> Helena Rapp Wright <i>Imperial College London, UK</i>
16:10	<b>Evosep-timsTOF mass spectrometry for rapid enamel-based proteomic sex determination of archaeological remains</b> Charlotte Blacka <i>University of York, UK</i>
16:25	<b>2023 Tilden Prize lecture</b> Julie MacPherson <i>University of Warwick, UK</i>
16:50	<b>Closing remarks and poster prize presentations</b> Victoria Hilborne <i>University College London, UK</i>
17:00	Drinks reception
18:00	Close