

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

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