

FUTURE FOCUS III

AGENDA

This Year's Theme: Complexity in Analytical Science

Day 1 - 25th September 2024

09:45 - 10:00 Welcome and Introduction
Camilla Liscio, Element Lab Solutions

SESSION 1: SAMPLING and SAMPLE HANDLING

Chair: Scott Dunham

10:00 - 10:20 Environmental Sampling and Sample Handling
Michal Tasinkiewicz, Environmental Agency (EA)

10:20 - 10:40 Use of Gerstel Tube Spiking System in Air Monitoring Applications
Ian Pengelly, Health and Safety Executive (HSE)

10:40 - 11:00 Diverse Approaches for Gas Phase Sample Introduction in SIFT-MS
SYFT

COFFEE BREAK

11:20 - 11:40 Ensuring Food Authenticity: Creating Reliable and Robust Databases
Alison Johnson, Food Forensics

11:40 - 12:00 Navigating the Complexity of Biological Sampling: From Microsampling to Automated Miniaturisation
Camilla Liscio, Element Lab Solutions

12:00 - 12:30 Panellists Discussion

LUNCH

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SESSION 2: SAMPLE PREPARATION

Chair: Borys Banecki

- 13:30 - 13:50 Sample preparation for “signature” analysis of complex environmental samples
Caroline Gauchotte-Lindsay, University of Glasgow
- 13:50 - 14:10 Evaluating Syringe Performance Limits on Gerstel MPS: A Design of Experiments
Approach for Precision Automation
Daniel Zagyva, Syngenta
- 14:10 - 14:30 Overview of the GERSTEL MPS for complex applications
Marco Wolff, GERSTEL
- 14:30 - 14:50 Investigating steroid metabolism using mass spectrometry: The Steroid Metabolome
Analysis Core
Angela Taylor, University of Birmingham
- 14:50 - 15:10 The Agilent Bravo for complex metabolomics applications
Tessa Moses, University of Edinburgh
- 15:10 - 15:40 Panellists Discussion
- 15:40 - 15:50 Day 1 Summary and Organisation for Lab Tour
Camilla Liscio, Element Lab Solutions

16:00 - 18:00

LAB EXPERIENCES

19:30 - 21:30

DINNER

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Day 2 - 26th September 2024

09:30 - 09:40 Welcome and Introduction
Camilla Liscio, Element Lab Solutions

SESSION 3: INSTRUMENTAL ANALYSIS

Chair: Scott Dunham

09:40 - 10:00 Environmental Analysis
John Quick, ALS

10:00 - 10:20 Enhancing Non-Targeted Analysis with 2D Gas Chromatography and
High Resolution TOFMS
Richard Spence, LECO

10:20 - 10:40 Analysis at the interface between complex systems
Henry Day, Illumina

COFFEE BREAK

11:00 - 11:20 Tackling Analytical Complexity in Food – the blend of Sensory and Instrumental
Analysis
Kathy Ridgway, Element Lab Solutions

11:20 - 11:40 Unraveling the Complexity of Sustainable Fuels using Different Hyphens
John Langley, University of Southampton

11:40 - 12:10 Panellists Discussion

LUNCH

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SESSION 4: DATA PROCESSING

Chair: Borys Banecki

- 13:10 - 13:30 Use of non-targeted spectroscopy-based tools in adulteration/authenticity analysis
Catherine Frankis, RSSL
- 13:30 - 13:50 Coding 101: Solutions for automation limitations and increasing workflow efficiencies
Colin Hastie, Element Lab Solutions
- 13:50 - 14:10 From Volcano Plots to AI: Leveraging MH Explorer and MH Quant for Precise, Fast and Consistent Data Analysis
Shaun Reeksting, Agilent Technologies

COFFEE BREAK

- 14:30 - 14:50 Best Practices for SIFT-MS Data Handling
Mark Perkins, Element Lab Solutions
- 14:50 - 15:10 Unravelling the complexities of the Botswanan salt pans with 'Taylor SYFT™' – exploring astrobiological analogues in the search for biosignatures
Claire Batty, Open University
- 15:10 - 15:40 Panellists Discussion
- 15:40 - 15:50 Event Summary and Food for Thought
Camilla Liscio, Element Lab Solutions

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**LET'S
TALK**

Talk to an expert →

