

Platinum Sponsor



Supporting Partners and Associations



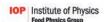






















Platinum Sponsor



Gold Sponsors









- Silver Sponsors











Welcome

Welcome to the Solutions in Science (SinS) conference and exhibition. SinS is a groundbreaking event that brings together the amalgamation of several analytical conferences, events, and special interest group meetings, organized by Scientists for Scientists.

Sponsored and supported by many of the Royal Society of Chemistry special interest groups, the British Mass Spectrometry Society, ChromSoc, the British Society for Nanomedicine, the Institute of Physics, and the Institute of Food Science & Technology, SinS stands as the pinnacle of analytical excellence, destined to be one of the major analytical events of 2023.

Attendees to SinS will come from a diverse array of scientific backgrounds, including academia, research organizations, regulators, industrial laboratories, and analytical service providers. SinS will provide a dynamic forum for exchanging views and experiences while developing innovative solutions to address analytical challenges head-on.

Under the guidance of Conference Chair Professor John Langley, SinS was conceived with the vision of creating a sustainable and comprehensive analytical meeting. It aims to bring together scientists from various fields to network, share ideas, and discuss solutions.

The SinS Conference revolves around the characterization of molecules in numerous applications, ranging from medical and pharmaceutical to food and beverage, environmental, oil and gas, forensics, and beyond. Sustainability serves as a common thread throughout the

three days of the conference, highlighting the importance of environmentally conscious practices in analytical sciences.

During each day of the conference, registered delegates will have the opportunity to tailor their participation by choosing from a selection of oral presentations, tutorials, and CPD certified sessions that run simultaneously. Furthermore, plenary presentations on sustainability or environmental themes will enrich all three days. Complementing the conference is the SinS exhibition which will give attendees opportunities to network and discuss with instrument suppliers their needs and applications and view poster presentations. Lunch and refreshments will be available to all participants and will again be freely available and served in the Exhibition networking hall.

The first day of SinS will focus on analytical challenges and solutions in environmental science, water analysis, food analysis, and the concept of 'One Health'-incorporating both human and veterinary clinical medicine. Simultaneously, delegates can attend tutorials on green techniques, emerging modalities in GC-VUV spectroscopy, and automation. The day culminates in a forum discussion on chromatography.

Day two delves into clinical and forensic themes in one conference room, featuring presentations on trace level contamination measurements in receiving waters, hyphenated techniques, emerging modalities, and measurements in environmental applications. In a separate room, tutorials and open discussions will cover topics such as One Health, next-generation medicines, particle measurement, and troubleshooting for GC and GC-MS.

On the final day, delegates can choose between sessions on One Health and next-generation medicine or Green Techniques and Emerging Modalities. Both sessions culminate with captivating plenary sessions on Environmental/Digital and One Health, delivered by renowned experts in their respective fields. The conference wraps up with the presentation of awards. SinS will return to Cardiff in July 2025, keep an eye on the website for more information.

Enjoy your SinS!

Marcus Pattison Exhibition Organiser Tel: +44 (0) 1727 858840

No code required, Just ioin Email: info@peftec.com Cardiff Free Wi-Fi

FREE WIFI



COME AND SEE US ON STAND 27

Rewarding. Supportive. Community.

66

With the RSC, you really do feel like you're being supported, and not just by one person or scheme, but the whole society.

YI JIN MRSC CChem

WELLCOME TRUST SIR HENRY DALE FELLOW AT CARDIFF UNIVERSITY



Explore membership at rsc.li/membership



ADVANCING CHEMISTRY, TOGETHER.

Plenary Speakers

Dr. Francisco Pena-Pereira, Associate Professor at Department of Analytical and Food Chemistry, University of Vigo

Tue 4th July 11:10

Francisco Pena-Pereira is Associate Professor at Department of Analytical and Food Chemistry, University of Vigo, Spain. His research interests include the application of miniaturized sample preparation techniques toward greener analytical methods, the design of paper-based microfluidic devices for on-site analysis with portable optical readout systems, as well as the assessment of chemical systems by metric tools. He has authored 75 papers (47% first decile), yielding an H-index of 33. He has been included in the Ranking of Stanford University among the 2% most cited researchers in the world (2019–20, career long impact; 2018–20, single year impact).



Dr Paul Ferguson, Associate Principal Scientist - Separation Science at AstraZeneca, AstraZeneca

Wed 5th July 09:00

A highly motivated leader with broad experience in the early and late development environments of the pharmaceutical industry. Over twenty years experience as an analytical chemist within the industry - leading analytical technology development, rapid analytical synthetic chemistry enabling support, early clinical phase project management and late stage formulation support. Exceptional networks with academic and industrial collaborators in the field of analytical chemistry.

Specialties: Extensive practical and theoretical knowledge of separation techniques (principally LC, CE, SFC) and related hyphenated techniques (LC/MS, CE/MS), chiral separations, drug product sample preparation, chromatographic column technology and selectivity, method development and validation, green analytical chemistry, software development, team leadership, continuous improvement, networking and conference organisation.



Dr Saer Samanipour, Assistant Professor of Analytical Chemistry, Van't Hoff Institute Amsterdam

Thu 6th July 13:00

Dr. Saer Samanipour is assistant professor of Analytical Chemistry at Van 't Hoff Institute for Molecular Science (HIMS), University of Amsterdam. Additionally, he is an honorary senior fellow at The Queensland Alliance for Environmental Health Sciences (QAEHS) of the University of Queensland, Australia (UQ). Prior, he was a research scientist at the Norwegian Institute for Water Research (NIVA) working on application of non-target screening in environmental sciences.

Samanipour's research focuses on the development of information extraction tools for spectrometric detection technology for particularly in the environmental application domain.



Professor Steve Conlan PhD FRSB, Professor of Molecular and Cell Biology, Swansea University Medical School

Thu 6th July 13:50

Steve Conlan is Professor of Molecular and Cell Biology, Swansea University Medical School, with over 25 years of experience in biomedical research and higher education. He is also Chief Scientific Officer at Continuum Life Sciences, a UK biotechnology company dedicated to finding a cure for cancer through research into Long Term cancer survivors.

Steve is involved in the leadership of several organisations; Chair of the Board of Trustees of the British Society of Nanomedicine, and Co-Vice Chair of the European Technology Platform – Nanomedicine. He is on the programme board, and is research and innovation lead, for two national precision medicine initiatives: Advanced Therapies Wales and Genome Partnerships Wales, and is a Wales Cancer Research Centre executive group member, and partnerships lead.



Steve is a Fellow of the Royal Society of Biology, and works closely with businesses, healthcare providers and research organisations in the UK and internationally to drive forward translational biomedical research. His university research focuses on the development of advanced therapeutics; Antibody Drug Conjugates, exosomes, and nanoparticle deliver systems, and understanding disease processes involving transcription and epigenomics.



Scientific Committee

Prof John Langley PhD BSc CChem CSci FRSC SinS Conference Chair, Mass Spectrometry and Chromatography Academic, University of Southampton

John has 35+ years' experience of mass spectrometry (MS) and chromatography and has led and managed the MS Facility since 1988, during which time over 1000 users have been trained in the use of modern MS. He has 117 peer-reviewed publications, H-index is 35, and has delivered innovative approaches to MS and chromatography-MS, e.g. the first academic open access MS instrumentation in 1995, open access LC-MS, GC-MS and then SFC-MS in 2014 John has supervised 22 students who graduated with PhDs, and is currently supervisor to four PhD students, and second supervisor to a further five PhD students. All of his PhD studentships have been jointly funded by industry, spanning the pharmaceutical, agrochemical, petrochemical and polymer chemistry sectors. He is a Fellow of the Royal Society of Chemistry (RSC), Chartered Chemist, Chartered Scientist, Member of RSC Analytical Division Council (2014-20), Chair of the RSC Separation Science Group (2009-) and President of the International Mass Spectrometry Foundation (2018-22). He is the only person to have been Chair of the BMSS and the RSC Separation Science Group.

John is also a diligent PhD examiner who is frequently called upon (19 Universities – both UK and abroad) and presently is external examiner at Robert Gordon University (Analytical MSc). In 2016-17 he was awarded the BMSS lectureship, a role he took very seriously, giving 18 lectures across the UK targeted at PhD students, covering over 4500 miles (mainly by train!) and in 2021 John was presented with the British Mass Spectrometry Society medal.

John's research ability is to apply his skills in analytical science to a broad range of challenging problems and systems. He is enthusiastic about collaborative working and applying new technologies, and applying his research approaches to a range of applications new environmental projects, whilst others aligns to the petrochemical industry, agrochemicals and pharmaceutical (including therapeutic oligonucleotides). He is director of the SW Regional GCxGC-HRMS facility, and in the process of enabling the equivalent SW Regional LCxLC-IMS-HRMS facility that should be commissioned early 2023.

Dr A Ruth Godfrey (CSci, CChem, MRSC), Associate Professor in Liquid Chromatography Mass Spectrometry, Swansea University

Ruth is an Innovation and Engagement Associate Professor at Swansea University with 20 years' experience in analytical science. She is a Chartered Chemist and Chartered Scientist committed to designing measurement advances for industry and government, focusing on sample separation, mass spectrometry and spectroscopy approaches for pharmaceutical and environmental analysis. She is a member of the SW Regional GCxGC-HRMS and LCxLC-IMS-HRMS facilities, and is PI for the first UK GC-VUV spectroscopy installation. She has publications that span the life science and environmental sectors, and has co-developed with industry and government new analytical methods leading to an increase in commercial and/or regulatory service provision. In addition to reviewing for UKRI, she is also a registered European Commission expert evaluator in analytical science.



Ruth has over 10 years' experience delivering training in analytical science, which includes over 30 postgraduate research (PGR) projects (9 PhDs), and the creation of training packages for industry, government and academia. She has helped shape graduate training globally as an RSC qualifications assessor, a member of the RSC Committee for Accreditation and Validation, and as secretary of the RSC Instrumental Analysis Expert Working Group. More recently, she has become a member of the RSC Separations Sciences Group and is excited to help support the coordination of activities across these roles.

Dr Leon Barron, Reader in Analytical & Environmental Sciences, Imperial College London

Dr. Leon Barron is a Reader in Analytical & Environmental Sciences at Imperial College London. He received both a BSc in Analytical Science (2001) and a PhD in Analytical Chemistry (2005) from Dublin City University, Ireland. Since 2009, he has led the Emerging Chemical Contaminants group focusing on chemicals and their transformation products in our environment, especially regarding development of targeted/non-targeted analytical methods for compound identification, monitoring, toxicity and risk assessment. In addition, he runs large-scale monitoring programmes using wastewater-based epidemiology to assess community and population level consumption and exposure to chemicals. His expertise lies in analytical chemistry, particularly in separation science, mass spectrometry and machine learning for applications in environmental, forensic and biological systems analysis. He has published >80 peer-reviewed journal articles to date and secured ~£7.5 M in research grants and contracts as Principal/Co-Investigator. He sits on the editorial board of Science & Justice, Journal of the Chartered Society of Forensic Sciences and from 2011-2014 was its Editor in Chief. He is a Fellow of the of the RSC Separation Science Interest Group and the London Biological Mass Spectrometry Discussion Group.

Royal Society of Chemistry, the Chartered Society of Forensic Sciences and the Higher Education Academy. He also sits on the committees

Dr Kathy Ridgway BSc (hons), PhD, C. Chem, MRSC, Senior Applications Chemist, Element (formally Anatune Ltd)

Dr Kathy Ridgway has over 29 year's laboratory experience as an analytical chemist – mainly working with GC-MS. She started her career doing pesticide residue analysis, before moving on to work on a wide range of food contaminants at Unilever Research. During this time, she completed a PhD at the University of Loughborough focussed on alternative extraction techniques. Following over 10 years at Unilever, she worked as a technical specialist in Taints and off-flavours at Reading Scientific services limited (RSSL). She now works as a Senior Applications Chemist at Element (formally Anatune Ltd) on automation of sample preparation protocols and alternative extraction techniques. Her main focus is on food, flavour and fragrance applications. She is an active member of the Royal Society of Chemistry, being involved with both the Food Group (past secretary and chair) and the separation science interest group (SSG - current secretary). She is also on the organising committee of the BMSS Environmental and Food Analysis special interest Group (EFASIG). She has published several papers, contributed to several book chapters, written magazine articles and presented her work at international conferences.

Dr Diane Turner PhD FRSC, Senior Consultant & Director, Anthias Consulting Ltd

Diane Turner is the Founder, Director and Senior Consultant of Anthias Consulting Ltd. A Warwick University Graduate, Diane completed her Masters in analytical chemistry and started her career in environmental chemistry, later gaining significant experience as an Applications Chemist. Diane has developed methods for, given support and high-quality training for companies in most industries around the world for more than 20 years. Diane is a visiting Academic & Consultant at The Open University where she continues her disease diagnosis research from her PhD along with food, drug and space applications. Diane is President of the Royal Society of Chemistry Analytical Sciences Community and Chair of the Analytical Chemistry Trust Fund. She is a Trustee of the Recycling Organisation for Research Opportunities (RORO). Diane is on the Building Effective Analytical Measurement (BEAM) panel and the Industry Advisory Board of the Community for Analytical Measurement Science (CAMS). She is a member of the Government Chemist Programme Expert Group (GCPEG). Diane is co-author of 'Gas Chromatography-Mass Spectrometry: How Do I Get the Best Results?' published by the Royal Society of Chemistry.

Dr Jackie Mosely, Associate Professor, Centre of Excellence in Mass Spectrometry, University of York

Jackie began research into fundamental aspects of mass spectrometry during a PhD at the University of Warwick, UK, before continuing at the University of Waterloo, Canada. Employment followed as an Application Scientist, later becoming the Senior Scientist for Bruker Daltonics Ltd, supporting all civilian MS-based product lines. Returning to University, at Durham University, she established a research group in mass spectrometry and managed the University MS service. She took up the post of Reader at Teesside University in the Waters Centre for Innovation before relocating to the University of York and the Centre of Excellence in Mass Spectrometry.

Current research projects span a wide range of applications (primarily pharmaceutical, agrochemical, lipids, metal-ligands and air- and solvent-sensitive samples), but at the core, research focuses on developing mass spectrometry, from the high performance of FT ICR MS through to the transportable quadrupole MS, and employing chromatographic separation and ion mobility separation for complex samples.

She is the Immediate Past Chair of the British Mass Spectrometry Society with much experience at organising conferences and training courses. Spectroscopy Update review group, published in the Journal of Analytical Atomic Spectrometry.





Dr Sam Whitmarsh PhD MChem CChem FRSC, Director of Digital transformation, CatSci

Dr Sam Whitmarsh has 20 years' experience across the synthetic and analytical chemistry spaces specialising in separation science, with a focus on multi-dimensional chromatography and high-resolution mass spectrometry of complex mixtures. Sam completed his PhD at the university of Bristol before moving to AstraZeneca as an Analytical Scientist in Process Research and Development. Sam moved to BP and spent 10 years in a range of technical and leadership roles leaving as Global Analytical Expert and leading the BP Analytical Science Network. In 2020, Sam moved back to the pharmaceutical industry and joined CatSci Ltd as the Head of Process Research and Development, leading the growth of the scientific team from 20 to nearly 60 before moving to lead the CatSci digital offer in his current role as Director of Digital Transformation. Sam is a founding member of the LabLinks community – an free online community helping scientists from across the disciplines to Link. Learn and Succeed. Sam is also a member and past secretary of the Royal Society of Chemistry Separation Science interest group.



Dr Lewis Couchman, Facility & Research Director, Analytical Services International

Lewis is currently the Facility & Research Director at Analytical Services International, based at St Georges, University of London. His current role involves overseeing the development, implementation, and routine analysis of biological samples for TDM, forensic and clinical toxicology, and for the support of clinical trials. Lewis completed his BSc degree at Loughborough University, his MSc and Clinical Scientist Training courses at Queen Mary University of London and King's College Hospital, and his PhD at the University of Leicester. Additionally, Lewis is a committee member of the Royal Society of Chemistry Separation Science Group and London Biological Mass Spectrometry Discussion Group, a member of The International Association of Forensic Toxicologists and The International Association of Therapeutic Drug Monitoring and Clinical Toxicology, and the Chair of the London Toxicology Group.



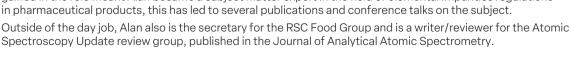
Graham Mills, Professor of Environmental Analytical Chemistry, University of Portsmouth

Graham Mills has been Professor of Environmental Analytical Chemistry at the University of Portsmouth, since 2008 and has over thirty-five years experience in the field. His main research interests are in monitoring water quality and measurement of organic pollutants particularly by the use of passive sampling techniques. Other areas of interest include development of novel sample preparation methods in analytical chemistry, use of high-field NMR in environmental toxicology and fate of pharmaceutical residues in the aquatic environment. He sits on two Royal Society of Chemistry Committees (Separation Science Group and Water Science Forum) that are related to these research activities.



Alan Cross B.Sc, MRSC, Analytical Chemist, Reading Scientific Services Ltd

Alan graduated from the University of Exeter with a degree in chemistry and went straight into the lab as an analytical chemist for the National Laboratory Service, mastering the fundamentals of environmental water analysis, focussing mainly on Atomic Spectroscopy, but also covering HPLC, GC-MS, wet chemistry and microbiological methodologies. Alans' next career move was moving into the exciting world of Food and Pharmaceutical analysis, joining the growing team at RSSL, a contract analysis lab, joining the metals team building further expertise in atomic spectroscopy as well as elemental combustion analysis. The experience gained in the role meant Alan became a subject matter expert in the field of elemental impurities regulations in pharmaceutical products, this has led to several publications and conference talks on the subject.







Independent trainers and consultants, experts in the analytical science fields:

- Gas Chromatography
- · Liquid Chromatography
- Mass Spectrometry
- Spectroscopy
- Mass Spectrometry Imaging
- Thermal Analysis
- Physical & Structural Properties of Molecules

Wednesday 4pm Room 3 Dr Diane Turner

'Applied Troubleshooting for GC & GC-MS'

Tutorial with open discussion











www.anthias.co.uk -



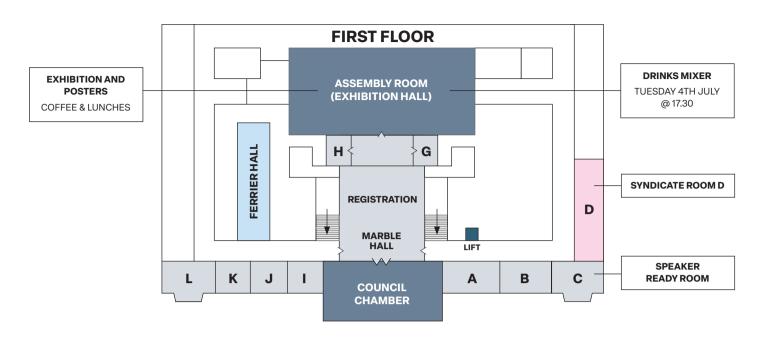
A Techcomp Company

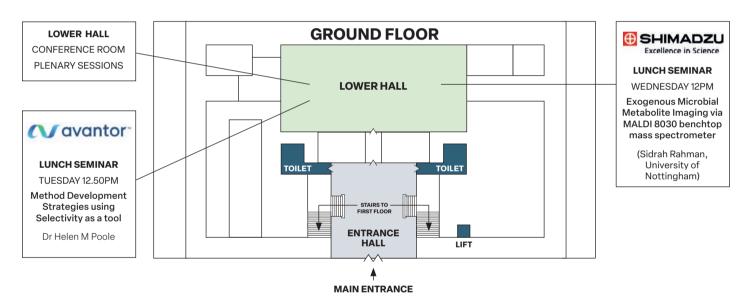
PREMIUM CHROMATOGRAPHY

Boost productivity and generate data confidently with our premium gas and liquid chromatography solutions.



Cardiff City Hall





SinS Conference Party

From 7:15pm on Wednesday 5th of July at the The Proud Mary Pub

Food and Drinks are included.

Please bring your drinks tokens (which were clipped to your badge to exchange for Beers, wine or soft drinks).

The Proud Mary Pub is located a short walk from the venue: 42-43 St Mary St, Cardiff, CF10 1AD.







Conference Programme: Day 1 - Tuesday 4th July

10:00	SinS 2023 Registration and Exhibition		
		LOWER HALL	
11:00	Conference Opening Ceremony		
11:10	Plenary session: Sustainability Dr Francisco Pena-Pereira, Associate Professor at Department of Analytical and Food Chemistry, University of Vigo		
12:00	Building a global culture	e of sustainability in science, Dr Perni	lla Sorme, My Green Lab
12:20		Flash Posters Presentations	
12:50	Lunch Break & Exhibition		
12.50	LOWER HALL: Vendor Presentation Method Development Strategies using Selectivity as a tool Dr Helen M Poole CV QVQntor™		
TIME	LOWER HALL	FERRIER HALL	SYNDICATE ROOM D
	ENVIRONMENT (Chair: Graham Mills)	FOOD (Chair: Alan Cross)	
14:00	Keynote: Using multi- modal passive samplers for the estimation of risk and bioaccumulation in Gammarus pulex	Keynote: Artificial Intelligence as a booster for food metabolomic workflows based on comprehensive two-dimensional gas chromatography	
	Ms Alexandra Richardson, Imperial College London Sponsored by	Prof Chiara Cordero, University of Turin Sponsored by	
	Water Research Forum	Food Group	
14:30	A fully automated system for Simultaneous, High Sensitivity Detection of PAHs, PCBs and Multi-Residue Pesticides in Waste Water using Headspace SPME Arrow and APGC-MS/MS Mr Janitha De Alwis, Waters Corporation	The use of vacuum assisted headspace solid phase microextraction for analysis of volatiles in Food Dr Kathy Ridgway, Element Laboratory Solutions	Tutorial with open discussion: Next Generation Medicines and genome sequencing Nigel Williams
14:50	Combination of passive sampling, targeted analysis and suspect screening to assess the occurrence and distribution of polar organic chemicals in two chalk streams in Hampshire, UK Ms Rosamund Robinson, University of Portsmouth	A case study on novel methodology for the detection of acrylamide in food, beverages and water at the point-of-need Mr Tom Sutton, Microsaic Systems	
15:10	From suspect screening to toxicity and exposure assessment of novel acidic contaminants in drinking water	Characterisation of Vanilla Extract Odour by Chemical and Sensory Analyses Mr Lewis Jones,	
	Mr David Ciccarelli, Imperial College London	Sensient Flavors & Extracts	



Conference Programme: Day 1 - Tuesday 4th July

15:30	Coffee Break & Exhibition		
TIME	LOWER HALL	FERRIER HALL	SYNDICATE ROOM D
16:00	ONE HEALTH (Chair: Lisa Hinchliffe)	Latest Challenges in molecular characterisation (Chair: Dr Jackie Mosely, University of York)	
16:00	Keynote: Robust in vitro characterisation is imperative for successful in vivo nanomedicines Ms Kadie Edwards, University of Swansea Sponsored by JPAG	Keynote: Molecular diversity vs chemical diversity: Combination of chemoselective derivatisations, chromatography, and mass spectrometry to reveal functional groups in complex mixtures. Dr Diana Palacio-Lozano Sponsored by BMSS	
16:30	An analytical and epigenetic investigation of the environmental and human health impacts of per- and polyfluoroalkyl 'Forever chemicals' Ms Denise De Meijer, Swansea University Medical School	Ion Mobility Separation Mass Spectrometry for simplifying complex MS/MS spectra to aid chemical characterisation Ms Caitlin Chapman, National Horizon Centre, Teesside University	Tutorial with open discussion: Automation Utilising Automated Sample Preparation for Analytical Analysis Mr Jonathan Dunscombe, Element Laboratory Solutions
16:50	Advancing Sport and Nutritional Science Research: Integrating LCMS-8045 and Nexera X2 Systems at the Carnegie School of Sport of Leeds Beckett University Dr Theocharis Ispoglou, Leeds Beckett University	Characterising biosurfactants produced by Bacillus humi using LC MS/MS Dr Jackie Mosely, University of York	
17:10	Our Journey Towards a Digitalised & Automated Workflow for Plate Purification Mrs Johanna Kollback, AstraZeneca	Real-world tyre wear emissions, and different chemical compositions of European and US tyres Mr Nick Molden, Emissions Analytics	
17:30	Forum: CAMS Chromatography State of the Nation Update		
17:50	Mixer & Exhibition		
19:30	Informal Mixer at Tiny Rebel from 19:30		





Conference Programme: Day 2 - Wednesday 5th July

08:55	SinS 2023 Announcements		
	LOWER HALL		
09:00	Plenary session: Sustainability Going green in separation science – focussing on the 'how?' Dr Paul Ferguson, Principal Scientist - Separation Science at AstraZeneca		
09:45	Coffee Break & Exhibition		
TIME	LOWER HALL	FERRIER HALL	SYNDICATE ROOM D
10:30	CLINICAL & FORENSIC Keynote: Lewis Couchman	CONTAMINANTS (Chair: Dr Kathy Ridgway, Element Laboratory Solutions) Keynote: Dr Cathy Frankis, Reading Scientific Services Limited (RSSL)	
11:00	Pushing the boundaries of automation in bioanalytical science - how far can we go? Dr Camila Liscio, Element Laboratory Solutions	Development of novel ICP-MS-CRIS instrumentation hyphenating inductively coupled plasma mass spectrometry with collinear resonance ionisation spectroscopy Dr Giles Edwards, The University of Manchester	Tutorial with open discussion: Green Techniques and Emerging modalities Gas Chromatography-Vacuum Ultraviolet spectroscopy (GC-VUV): a sustainable
11:20	Antimicrobials in vegetable samples: d-SPE as an efficient clean up step to get accurate results at trace concentration levels Ms Irantzu Vergara-Luis, University of the Basque Country (UPV/EHU)	Comparing HPLC-MS and SFC-MS for PFAS analysis – an ionization efficiency-based effect study Ms Ardiana Kajtazi, Ghent University	alternative measurement technology for volatile species Dr Ruth Godfrey, Swansea University Medical School
11:40	Understanding the importance of sample preparation for the analysis of biological samples Prof Tony Edge, Avantor	Establishing workflows to Simplify Data processing for two-dimensional Gas Chromatography Data Mr Paul O'Nion, RSSL	
12:00	Exogenous Microbial Meta	endor Presentation bolite Imaging via MALDI 8030 rah Rahman, University of Nottinghan	SHIMADZU Excellence in Science
12:00		Exhibition, Posters and Lunch	

Please note, the program was correct at time of printing.
Please visit: www.ilmexhibitions.com/sins/conference-programme/

Or scan:



TIME	LOWER HALL	FERRIER HALL	SYNDICATE ROOM D
14:00	CLINICAL & FORENSIC (Chair: Lewis Couchman) Keynote: Rachel Carling	Hyphenated Techniques and Emerging Modalities Chair: Dr Ruth Godfrey, Swansea University Medical School Keynote: What do we want from our hyphenated solutions? Prof John Langley, University of Southampton	
14:30	Cardiff Forensic Lewis Couchman	Tackling the challenges of modern fuel with the application of chromatography and mass spectrometry Ms Molly Wilson, University of Southampton	Tutorial with open discussion: OneHealth, Next gen medicines, particle measurement
14:50	The use of short 10 mm columns for rapid LC-MS analyses. AVANTOR Dr Arianne Soliven, Avantor	Extending the Applicability Range of Refractive Index Detector via hyphenation with temperature gradient Temperature-responsive Liquid Chromatography for quantitative analysis Ms Elena Bandini,	Dr Lewis Francis, Swansea University Medical School
15:10	Mass spectroscopy: Life at the interface. Hyphenated parallel (FT-IR) - MS for unambiguous ID in complex samples Mr Nathan Hawkins, Spectrometrics Ltd	University of Ghent Fragmentation tree prediction based on molecular fingerprints Ms Viktoriia Turkina, Van 't Hoff Institute for Molecular Sciences (HIMS), University of Amsterdam	
15:30	Coffee Break & Exhibition		
16:00	CLINICAL & FORENSIC Keynote: Mark Parkin, Eurofins Forensic	ENVIRONMENTAL (Chair: Leon Barron) Keynote: Jacqui Hamilton	
16:30	Patrick Sears	Handheld liquid chromatography for field-based analysis Dr Ali Salehi-Reyhani, Imperial College London	Tutorial with open discussion: Applied Troubleshooting for GC & GC-MS
16:50	A combination of liquid chromatography tandemmass spectrometry androgen profiling and machine learning identifies three distinct androgen metabolism subtypes in women with polycystic ovary syndrome Dr Angela Taylor, University of Birmingham	Developing an assay to determine impact of environmental conditions on the breeding of endangered species Ms Kelly-Anne Harrison, Avantor	Dr Diane Turner, Anthias Consulting Ltd Anthias Consulting Ltd Bridging the Gap
17:10	Drugs of Misuse: A Year Long-Study Monitoring Heroin Use in England Ms Derryn Grant, Imperial College London	Quantification & Identification Of Microplastics In Environmental Samples By Pyrolysis-Gc/Ms Mr Andrew Ward, JSB UK & Ireland	
17:30		Conference Ends	
19:15	Conference Mixer from 19:15 at Pr	oud Mary Pub (Drinks and Food inclu	ded for Delegates and Exhiibtors)





Conference Programme: Day 3 - Thursday 6th July

08:55	SinS 2023 Announcements	
TIME	LOWER HALL	FERRIER HALL
09:00	One Health: Next generation medicine (Chair: Sam Whitmarsh)	Green Techniques and Emerging Modalities (Chair: Diane Turner)
09:00	Keynote: Navigating the Complexities of Oligonucleotide Analysis via LCMS: Challenges and Solutions	Keynote: Possibilities and limitations of purely aqueous temperature responsive liquid chromatography in LCxLC Prof Frederic Lynen, Ghent Univeristy
09:30	Dr Nigel Richardson, CatSci Characterisation Of Oligonucleotides By Negative Ion Esi Tandem Ms and Ims Mr Fabien Hannauer, University of Southampton	Automated SIFT-MS - pushing the boundaries of high-throughput analysis Dr Mark Perkins, Element Laboratory Solutions
09:50	Multitarget Analysis of Xenobiotics in Breast Milk. First Steps Towards the Study of the Exposome Ms Inés Baciero, University of the Basque Country (UPV/EHU)	The Analysis of Pesticide Products using Ultra-High- Performance Supercritical Fluid Chromatography- Mass Spectrometry Ms Rebecca Baker, University of Southampton
10:10	Enabling the recycling of technology critical elements from e-waste through metrology research Dr Sarah Hill, National Measurement Laboratory, LGC	The need for non targeted analysis of Nitrosamines within the Pharmaceutical industry Mr Andrew James, Ellutia
10:30	Coffee Break & Exhibition	
11:00	Measurement and in silico prediction of pharmaceutical biotransformation in receiving water Mx Olukemi Oloyede, Imperial College London	Cumulative Neutral Loss Model for Fragment Deconvolution in Electrospray Ionization High- Resolution Mass Spectrometry Data Ms Denice van Herwerden, University of Amstedam
11:20	Methods Database – Streamline HPLC Method Transfer and Data Comparison Dr Azzedine Dabo, GSK	From Helium to Hydrogen, a cost effective way to improve your lab's green credentials Mr Alan Griffiths, LECO
11:40	An Informatics Environment Designed for Molecular Characterization & Analytical Knowledge Management Dr Ed Milton-Harris, ACD/Labs UK	Delivering Digital Work Instructions and AR Remote Support to Reduce Customer Downtime Mr Nathan Burley, SSS Ltd
12:00	Coffee Brea	ak & Exhibition



Conference Programme: Day 3 - Thursday 6th July

TIME	LOWER HALL
13:00	Plenary session: ENVIRONMENTAL/DIGITAL (Chair: Caroline Gauchotte-Lindsay) Dr. Saer Samanipour, Van't Hoff institute Amsterdam
13:50	Plenary session : One Health (Chair: John Langley) Prof Steve Conlan, Swansea University Medical School
14:40	Awards
14:45	Meeting close

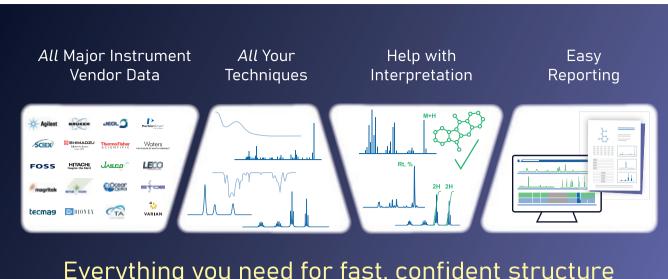
Poster Presentations

To view the posters being presented at SinS please visit: www.ilmexhibitions.com/sins/posters

Or scan:







Everything you need for fast, confident structure elucidation in one application

Learn more: www.acdlabs.com/SE&V



✓ info@acdlabs.com



+44 (0) 1344 668030 (UK)

Head Office:

Worldwide Offices:











is a serious, global environ-mental concern. JSB has a proven configuration for micro plastics analysis by pyrolysis GCMS consisting of a Frontier Laboratories multi-functional pyrolyser and Agilent GCMSD.





Suite G5. The Innovation Centre 1 Devon Way, Longbridge, Birmingham, B31 2TS

T +44 (0)16 2885 4565 F +44 (0)16 2885 4569 E info@go-jsb.co.uk





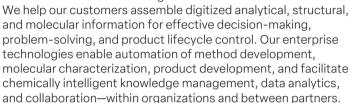
EXHIBITORS

ACD Labs

STAND 8

www.acdlabs.com

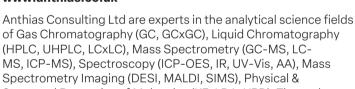
ACD/Labs is a leading provider of scientific software to R&D organizations.



ACD/Labs solutions are used in a variety of industries including pharma/biotech, chemicals, consumer goods, agrochemicals, petrochemicals, and academic/government institutions. We provide worldwide sales and support and bring >25 years of experience and success helping organizations innovate and create efficiencies in their workflows.

Anthias Consulting STAND 31





AnthiasConsulting Ltd

Spectrometry Imaging (DESI, MALDI, SIMS), Physical & Structural Properties of Molecules (KF, LDA, XRD), Thermal Analysis (DSC, TGA) and all related techniques. Our trainers and consultants are members of the Royal Society of Chemistry (RSC) and are current practitioners in the field of Analytical Chemistry.

Many of our training courses have been approved by the Royal Society of Chemistry for purposes of Continuing Professional Development (CPD).

Avantor

STAND 26

www.avantorsciences.com/site/

Avantor®, a Fortune 500 company, is a leading global provider of mission-critical products and services to customers in the biopharma, healthcare, education & government, and advanced technologies & applied materials industries. Our portfolio is used in virtually every stage of the most important research, development and production activities in the industries we serve. Our global footprint enables us to serve more than 300,000 customer locations and gives us extensive access to research laboratories and scientists in more than 180 countries. We set science in motion to create a better world.

Element

STAND 15

www.element.com

Element is a leading global provider of Testing, Inspection, and Certification (TIC) services on a wide range of products, materials, processes and services and products for a diverse set of end markets, where failure in service is simply not an option. Headquartered in London, UK, Element's scientists, engineers, and technologists, working in our global network of over 200 laboratories, support customers from early R&D, through complex regulatory approvals and into production ensuring that their products, materials, processes, and services are safe, compliant, and fit for purpose.

Ellutia STAND 12

www.ellutia.com

Ellutia Chromatography Solutions is a leading independent UK manufacturer of innovative chromatography instrumentation.

Ellutia

Originally Cambridge Scientific Instruments Ltd, the company will next year be celebrating 30 years within the chromatography field, supplying Gas Chromatographs, detectors, software and accessories to a host of markets.

Sins | SOLUTIONS in SCIENCE

Fintiede Solutions STAND 17



www.fintiedesolutions.com

Fintiede Solutions is a leading provider of cutting-edge technologies and solutions in the field of molecular characterization. With a relentless commitment to advancing scientific research and empowering industries, we specialize in offering innovative products that revolutionize the way molecular analysis is conducted.

Our comprehensive product portfolio includes Evosep, Bionavis, IonOpticks, Shine IC, and InProcess Instruments, each designed to unlock new insights and enable breakthrough discoveries. At Fintiede Solutions, we are driven by a passion for innovation and scientific excellence. We collaborate closely with leading researchers, institutions, and industry partners to stay at the forefront of molecular characterization. Our team of dedicated experts ensures that our products are cutting-edge, reliable, and user-friendly, empowering scientists to push the boundaries of molecular analysis.

Whether you are a researcher in academia, a scientist in the pharmaceutical industry, or a pioneer in biotechnology, Fintiede Solutions is your trusted partner in molecular characterization. Join us on our journey to unravel the complexities of life at the molecular level and pave the way for transformative scientific breakthroughs.

International Labmate STAND 21



www.labmate-online.com

International Labmate Ltd has channelled almost 50 years of publishing experience into providing Multi-Media and Events for the Scientific community. The key target audiences include managers and decision-makers from the Laboratory, Environmental and Oil & Gas sectors. Specific leading titles include; 'International Labmate', 'Labmate UK & Ireland', 'Lab Asia', 'Chromatography Today', 'International Environmental Technology', 'Asian Environmental Technology', 'Petro Industry News', and 'Measurement Analysis China'. Each title acts as a key informative purchasing tool for buyers involved in the scientific field and a crucial marketing platform for manufacturers and suppliers to promote their products. The company also provides Websites, e-Newsletters, Events and e-Learning platforms for each sector.

JSB STAND 20

www.go-jsb.co.uk



Welcome to JSB!

Over the years we have gained knowledge and experience to provide laboratory of chromatography solutions in the next areas: environmental, petrochemical, chemical, food & flavour, life sciences and forensics.

Since 2002 JSB has been active on the European market and in the past fifteen years JSB positioned itself as a full knowledge partner in chromatography and mass spectrometry solutions. Analytical instruments can be purchased in different places, but solid advice tailored to the needs of your laboratory or process environment is not readily available. However, you can call on JSB for both GC (MS) and LC (MS) techniques specifically for your field of application. We have a full range of custommade solutions. We consider it our task to offer added value when it comes to instrumentation. These standard or custommade solutions are often delivered including application. For sample pre-processing to full automation, JSB ensures a turnkey solution of several systems, together with the relevant application.

Your problem is our inspiration, which often results in innovative solutions. JSB presents itself to its customers as a knowledge partner in chromatography. We think very highly of both knowledge and innovation. JSB produces the solution for you in their workshop if no commercial solution is available. That is how JSB always wants to be one step ahead of knowledge. This is also possible because JSB invests in the knowledge and skill of highly-trained staff. Therefore, you can be absolutely sure that JSB is the knowledge partner you have been looking for. Our capital is invested in our employees who can support you in terms of instrumental technique, applications, service and maintenance, automation and specific software solutions.

Being the largest regional Value Added Reseller for Agilent Technologies, JSB bases its systems on the GC (MS) and LC (MS) modules of Agilent Technologies. Together with the large variety of sample pre-processing and detection equipment from several partners such as AFP, CTC, CDS, EST, IonSense, Owlstone, SAI, SIM and Zoex, JSB offers a full range of analysers and accessories. By means of our own research and development department solutions can be combined, modified or developed.

Automated Total Nitrosamine Analyser Optimised Nitrosamine Screening

- Little to no sample prep required
- Capability to run overnight independently
- Up to 120 sample capacity
- · Quantify total nitrosamine content down to 1ppb







Empowering Molecular Insights,

Driving Scientific Progress.

- Chromatography
- LC/IC/GC
- **Proteomics**
- Columns & Emitters
- **HPLC Consumables**
- MP-SPR
- Climatic Chambers
- Lab Equipment
- Glassware
- Plasticware

Our Partners













Join Us At Stand 17

Alternatively Contact us here







LECO STAND 7

www.leco.com

The one thing all laboratories need to be successful is results they feel confident in. Since 1936, millions of samples worldwide have been analyzed using LECO instruments for elemental analysis, thermal analysis, metallography, and mass spectrometry. Our comprehensive solutions for improving productivity include working with you to find the right equipment for the type of analysis you are doing — and providing you with the training, application support, and service you need to keep your lab running at its best.

We take away the stress and frustration your laboratory experiences when faced with the increasing demands of doing more with less.

Microsaic Systems STAND 22





Founded in 2001, Microsaic Systems plc develops real-time, point-of-need mass spectrometers. Microsaic offers fast, accurate cutting-edge solutions to multiple industries across the world. Core products, such as the compact MiD® series of mass detectors, are designed to integrate seamlessly with a wide range of third-party OEM equipment or used as a standalone system. At the forefront of our design ethos is to deliver fast, easy to use, powerful mass spectrometry (MS) performance.

Patented chip-based MS technology and intuitive software enables real-time data generation at the point-of-need, not just in a centralised laboratory. Designed for both pharmaceutical and biopharmaceutical applications, continuous data is accessible at any stage of your workflow. Over 22 years' experience in mass spectrometry, microfluidics, vacuum systems, analytical processes, and miniaturised instrumentation has led to the development of our outsourced services. Laboratory, engineering, and monitoring issues can now be solved with a world-class team of chemists, physicists, and engineers by your side.

Royal Society of Chemistry STAND 27





We connect scientists with each other and society as a whole, so they can do their best work and make discoveries and innovation happen.

We publish new research. We develop, recognise and celebrate professional capabilities. We bring people together to spark new ideas and new partnerships. We support teachers to inspire future generations of scientists. And we speak up to influence the people making decisions that affect us all.

We are a catalyst for the chemistry that enriches our world.

Scion Instruments

STAND 29

www.scioninstruments.com



Boost productivity and generate data confidently with SCION Instruments, Gas & Liquid Chromatography solutions. Built on the history of Chrompack and Varian in GC and GC-MS, SCION Instruments was acquired by the Techcomp group in 2014.

SCION Instruments designs, develops, supplies and supports GC, GC-MS, LC and Compass CDS (chromatography data system) product lines.

The company prides itself for manufacturing in Europe at facilities in Goes, The Netherlands with its headquarters based in Livingston, Scotland. SCION Instruments maintains a global infrastructure to support sales around the world. As well as providing support for SCION Instruments customers, there is also service and support available for users of legacy Varian systems.

PLATINUM SPONSOR

Shimadzu STAND 18 & 19



www.shimadzu.co.uk

Founded in 1997, Shimadzu UK is a leading innovator in analytical instrumentation and material testing measurements, supporting a wide range of industries and scientific applications. These include clinical, environmental, food, pharmaceutical, automotive, petrochemical and life science.

Supporting Chromatography (HPLC/ UHPLC/ SFC/ GC), Mass Spectrometry (LC-MS/MS, GC-MS/MS, ICP-MS, MALDI-TOF and Imaging MS), Spectroscopy (UV-Vis, FT-IR, Fluorescence), Elemental Analysis (AA, ICP), X-ray (EDXRF, XRD), Total Organic Carbon analysers, as well as materials testing (tensile, universal and hardness testing).

Shimadzu's strategy of innovation through extensive investment in research and development is core to Shimadzu's approach to the manufacture of innovative solutions. Research and development is supplemented with an extensive network of satellite offices in locations around the globe to support your local needs. Shimadzu also fields a strong team of academics at universities worldwide, putting it firmly at the forefront of the worldwide technical market.



Advanced Miniaturised Mass Spectrometry





Fast, accurate cutting-edge solutions from award-winning pioneers in MS technology. Offering customised, turnkey solutions to multiple industries across the world.

SERVICES



Services



Science + Engineering



Monitoring



MiD® Platform



PRODUCTS

ProteinID



and more...

INDUSTRIES



Environment



Pharma



BioPharma



Food+Drink



Personal Care



Academia

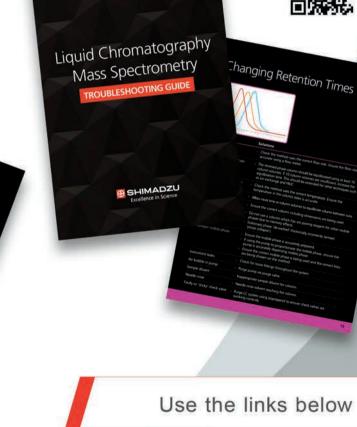






Broad Peaks

Get your free troubleshooting guides for GC, LC and LCMS



and download your copy



Liquid Chromatography