

BMSS 3-Day Meeting Cardiff 2010
Mass Spectrometry in a Changing World

Programme Sunday 5th September 2010

08.30 to 16.40	BMSS Short Course	
15.30 to 18.30	Registration for BMSS Cardiff 2010	
16.00	New Users Workshop supported by VRS	Workshop
18.30	Reception at Cardiff City Hall Followed by a social at a venue in Cardiff City Centre Open to all delegates	

Programme Monday 6th September 2010

8.45	Chairman's Welcome Address		
9.00	MACCOLL LECTURE Main Hall – Chaired by Gavin O'Connor Carol Robinson Mass Spectrometry and its role in Structural Biology		
10.00	Tea/Coffee		
<i>Session Title</i>	Next Generation – Main Hall CHAIRED by Emma Marsden-Edwards		
10.30	Christianne Wicking A Multi-technique approach for degraded biodiesel analysis		
10.50	Aruna Prakash Electron induced dissociation (EID) of positively and negatively charged small molecules		
11.10	Alexander Warren Application of graphite assisted laser desorption ionisation time of flight mass spectrometry (GALDI-TOF-MS) for the analysis of lanthanide salts		
11.30	Martin DeCecco Death and (chemo) taxis : Structure-function relationships of B-defensins probed by ion mobility-mass spectrometry		
11.50	Angelika Galezowska Approaches towards understanding the specific dissociations of Quinazolines using ESI-CID MS and DFT calculations		
12.10	Jonathan Hopper Alkali metal cation-induced destabilization of gas-phase protein-ligand complexes		
12.30	LUNCH followed by POSTERS & EXHIBITION		
<i>Session Title</i>	MS in Environmental/Food Analysis CHAIRED by Simon Hird	Manufacturer/Exhibitor Session CHAIRED by Tony Bristow	MS in Clinical Analysis CHAIRED by Andrew Kicman
14.30	Keynote: David Cook Application of on-line and rapid mass spectrometry techniques to study	14.30 ABSciex AB SCIEX TripleTOF™ 5600 System: High Performance for Qualitative and Quantitative LC/MS/MS	Keynote: Brian Keevil LC-MS/MS Analysis of Testosterone in clinical laboratories.

	flavour development during malting and brewing processes.	14.40	Advion Biosciences Liquid Extraction Surface Analysis (LESA) for direct sampling of tissue, TLC Plates and Dried Blood Spots.	
		14.50	ARC Sciences Combining Electrochemistry with MS - Oxidation, Oxidation, Oxidation.	
15.00	Elizabeth Crawford The use of direct analysis in real time (DART)-MS for the detection of contaminants and pesticides in various food sources	15.00	CovalX Introducing Protein Interaction Analysis by High-Mass MALDI Mass Spectrometry	Bill Griffiths Brain steroids promote neurogenesis: Their potential for diagnosis and treatment of neurodegenerative disease
		15.10	Fortis Technologies UHPLC does it make us Productive?	
15.20	Zuzana Skrababova Ultra high resolution mass spectrometric determination of the marine toxins, azaspiracids, in shellfish	15.20	Jaytee Biosciences Introducing the Evolution MS/MS System.	Stephen Morley Liquid chromatography – mass spectrometry in the clinical setting.
		15.30	KR Analytical Extending the capability of the DART ion source”	
15.40	Tea/Coffee			
16.10	Victoria Bailey The analysis of perfluorooctane sulfonic acid (PFOS) and related compounds in the environment by mass spectrometry.	16.10	MedicWave	Rebecca Edwards Haemoglobin variant analysis via surface sampling of dried clinical blood spots by direct infusion and nano-electrospray mass spectrometry (MS) and Tandem mass spectrometry (MS/MS)
		16.20	Perkin Elmer Advantages of a new Field Free APCI ion source in LCMS applications	
16.30	Zhongping Yao Rapid differentiation of herbal medicines by MALDI-MS	16.30	Quotient Bioresearch Answers Through Innovation: Mass Spectrometry within Quotient Bioresearch	Angela Taylor Urinary steroid profiling as a high-throughout screening tool for the detections of malignancy in patients with adrenal tumours
		16.40	Sigma-Aldrich	
16.50	Jacqueline Hamilton Using mass spectrometry to study the formation of organic aerosol in a tropical rainforest	16.50	ThermoFisher Scientific Complete workflow solutions to harness the power of MS	Mike Wright Analysis of 250H vitamin D2 & D3 by LC-MSMS – The importance of qualifier ions for clinical diagnostic analysis.
		End of Session		

17.10	<p align="center">John Langley Biofuel: An ever changing analytical challenge</p>		<p align="center">Deborah Mawson Food for thought: Nutritional biomarker discovery</p>
	End of Session		
<p>From 17.30 to 18.30</p>	<p>WINE RECEPTION hosted by the BMSS Open to all delegates and exhibitors</p>		
<p>20.00</p>	<p>Social Evening hosted by the BMSS at the Yard – Cardiff City Centre Open to all delegates and exhibitors</p>		

Programme

Tuesday 7th September 2010

8.45	Announcements & General admin		
9.00	<p align="center">PLENARY Main Hall – Chaired by Susan Crosland Alison Ashcroft Using Ion Mobility Spectrometry – Mass Spectrometry to Unravel Biomolecular Assembly</p>		
10.00	Tea/Coffee		
<i>Session Title</i>	<p align="center">Next Generation – Main Hall CHAired by Stephen Holman</p>		
10.30	<p align="center">Jonathon Snelling Extractive electrospray ion mobility mass spectrometry characterisation of medicinal spray formulations</p>		
10.50	<p align="center">Aneika Leney Using mass spectrometry to determining subunit specificity in pilus assembly</p>		
11.10	<p align="center">Andrew Gray Gas phase aggregation of ionic liquids</p>		
11.30	<p align="center">Lucy Woods Investigating amyloid inhibitors of beta-2-microglobulin using ion mobility spectrometry-mass spectrometry</p>		
11.50	<p align="center">Michael Smith The use of atmospheric pressure solids analysis probe (ASAP) in the characterisation of synthetic polymers</p>		
12.10	<p align="center">Dale Shepherd A mass spectrometry study of the baseplate complexes of lactococcal phages</p>		
12.30	<p align="center">BMSS AGM with LUNCH followed by POSTERS & EXHIBITION</p>		
<i>Session Title</i>	Separation Science for MS CHAired by John Langley	Manufacturer/Exhibitor Session CHAired by Bob Galvin	MS for Biological analysis CHAired by John Griffiths
14.30	<p align="center">Keynote : Brian Smith Use of Mass Spectrometry in clinical drugs of abuse testing</p>	<p align="center">14.30 ACD</p>	<p align="center">Keynote: Martin Larsen Modification specific proteomics : Identification and quantization of phosphorylated proteins and sialyted glyoprotiens</p>
		<p align="center">14.40 Agilent Sub-attomole detection limits using enhanced ion-funnel technology on a triple quadrupole mass spectrometer.</p>	

		14.50	Bruker Mass Spec Imaging from discovery to reality – what’s important	
15.00	Robert Flanagan Mass Spectrometry in clinical practice	15.00	Dionex Simplifying workflows for peptide separations with NanoLC-MS	Caroline Evans Analysis of protein acetylation sites by mass spectrometry: A novel approach
		15.10	Ionopitka A New Time of Flight SIMS Instrument for 3-Dimensional Imaging and Analysis	
15.20	Christopher Wright Identification of flavour sources using SPME headspace GC/MS	15.20	Jeol Recent advances in JEOL Mass Spectrometry Products, Spiral-ToF.	Kriangsak Songsrirote Development and appreciation of workflows for the analysis of progranulin N-Glycosylation
		15.30	LECO New additions to LECO ChromaTOF Software: Variable Modulation Times and the Statistical Compare package.	
15.40	Tea/Coffee			
16.10	David Neville The use of in-silico modelling to predict the retention times of exogenous material that causes ion suppression in LC-MS/MS bioanalysis	16.10	MS Vision Teaching Q-TOF new tricks- Introducing an Ultra High Mass upgrade for Q-ToF instruments	Kleitos Sokratous Non-covalent ubiquitin-ubiquitin binding domain interactions studies by electrospray ionization-travelling wave ion mobility spectrometry – mass spectrometry.
		16.20	Presearch LDTD-MS/MS for in vitro and in vivo assays : An Overview	
16.30	Colin Creaser Chemical standards for ion mobility-mass spectrometry	16.30	SS Scientific	Sarah Hart Quantitative mass spectrometric characterisation of the human urinary proteome in pregnancy
		16.40	Waters Stepping up to the challenge.	
16.50	Paul Pevsner Tissue protein extraction and trypsin digest with the pressure cycling technology (PCT)	End of Session		Andrew Creese Quantitative proteomic analysis of experimental gingivitis
17.10	Julie Herniman An automated approach for routine analysis of oligonucleotides			Stephen Holman The copy project: Absolute quantification of the proteome of saccharomyces cerevisiae using the qconcat methodology
End of Session				
19.30	Conference Dinner - Cardiff City Museum – prebooked delegates only			

Programme - Wednesday 8th September 2010

8.45	Announcements & General admin		
9.00	PLENARY Main Hall – Chaired by John Vickerman Progress in Matrix Free Mass Spectra 2D and 3D Imaging of Biosystems with Good Spatial Resolution		
10.00	Tea/Coffee		
<i>Session Title</i>	MS in Surface/nano Analysis CHAIRED by Ian Gilmore	Instrument Developments CHAIRED by Jackie Mosley	MS in Biological Analysis CHAIRED by Alison Ashcroft
10.30	Keynote: Brigit Hagenhoff TOF-SIMS: A Fine-tuned Comb for Surfaces	Keynote: Peter O'Connor Static and dynamic electric field homogeneity limitations to the performance of FTICR mass spectrometer	Keynote: Jim Scrivens Shape selective studies of complex systems utilizing travelling wave ion mobility mass spectrometry
11.00	John Watts Direct examination of the interphase chemistry in structural adhesive joints: The role of an organosilane adhesion promoter	Malcolm Clench Modification of a hybrid quadrupole time of flight instrument for high speed high sensitivity MALDI imaging.	Adam McKay Conformational properties of large DNA ions studies using T-Wave ion mobility mass spectrometry.
11.20	David Mcphail Applications of SIMS in materials science using stable isotope exchange protocols	James Reynolds Evaluation of electrospray and atmospheric pressure chemical ionisation sources for thermal desorption ion-mobility mass spectrometry	Jason Wildgoose Increasing the peak capacity of a hybrid quadrupole/ion mobility/OA-ToF instrument
11.40	Katie Moore Nanosims analysis of arsenic and selenium in roots and cereal grain	Daniel Weston Selective analysis of pharmaceutical compounds in complex mixtures using a miniature ultra-high-FAIMS-MS device	Gillian Hilton Ion mobility-mass spectrometry allows the structural determination of small heat shock proteins
12.00	LUNCH		

Session Title	MS in Surface/nano Analysis (cont'd)	Instrument Developments (cont'd)	MS in Biological analysis (cont'd)
13.00	Felix Kollmer High resolution SIMS imaging and 3D microanalysis of organic structures	Kevin Giles A new conjoined RF ion guide for enhanced ion transmission	Malcolm Clench Ion mobility separation is the key to successful "On-Tissue" shotgun proteomics in MALDI imaging experiments
13.20	Felicia Green G-DB1 : A new web-based system for simulation of fragmentation pathways and identification of G \square SIMS molecules	Andrew Jones What can nitrated peptides tell us about the mechanisms of electron capture dissociation mass spectrometry?	Bethny Morrissey Revealing the role of the usher protein in pilus biogenesis by electrospray ionisation mass spectrometry.
13.40	Santanu Ray Characterization and quantification of absorbed protein films by surface mass spectrometry and spectroscopies	Richard Joyce The observation of a kinetic effect influencing the site of protonation in electrospray ionization	Lauren Brown Analysis of peptides and proteins using an ultra high field asymmetric ion mobility spectrometry – mass spectrometry approach.
14.00	Frank Rutten Ambient mass spectrometric analysis of polymer surfaces by PADI-MS: Investigating the mechanism by comparison with SIMS and ESI data.	Peter Stokes The analysis of boronic acids using an atmospheric pressure solid analysis probe (ASAP)	Zoe Hall Shaping it up: Challenges and strategies for accurate collision cross section measurement of large multimeric protein complexes by ion mobility.
14.20	Tara La Roche Salter Detection and localisation of small molecules on skin using ambient mass spectrometry.	Tony Bristow The application of GC-APCI-QTOF MS for structural characterisation in pharmaceutical development	Perdita Barran Ion mobility mass spectrometry of macromolecules: amyloids and cages
14.50	CHAIR'S INVITED LECTURE CHAIRED by John Langley Bob Boyd Mass Spectrometrists are Analytical Scientists		
15.50	PRESENTATION OF THE AWARDS FOR THE BARBER/BORDOLI PRIZES Bordoli Prize sponsored by Waters, Barber prize sponsored by Syngenta		
16.30	MEETING ENDS		