



BNASS 2018 Final Programme

Note that this is a preliminary programme and is subject to change. For latest details please check the website.

<http://www.rsc.org/events/detail/26021/bnass-2018-the-19th-biennial-national-atomic-spectroscopy-symposium>

Monday 2 nd July		
	Workshop 1 9:00-12:30	Uncertainty and Traceability for ISO Accreditation. Led by Marina Patriarca and Bertil Magnusson, Eurachem, St Mary's University Lecture Theatre G7
	Workshop 2 9:00-12:30	Nanoparticle Analysis Using spICP-MS and FFF-ICP-MS. Led by Heidi Goenaga-Infante. LGC, Queens Road, Teddington
	From 11:00	Registration, Students Union Hall
	From 11:30	Check into BNASS on-site accommodation, Students Union Hall
	From 12:30	Lunch, Student Union
Monday 2 nd July		
		Main Programme, Main Lecture Theatre G7
	13:20-13:30	Welcome address: Chris Harrington , Chair, BNASS 2018 Organising Committee
		Session 1: Clinical, Biomedical and Health Applications Session Chair: Chris Harrington
1	13:30-14:10	Keynote 1: Patrick Parsons , Director, Laboratory of Inorganic and Nuclear Chemistry, Wadsworth Center, New York State Dept. of Health, Albany. Quantifying the Rare Earth Elements in Human Bone by Triple Quad ICP-MS/MS: Method Optimization Parameters and Validation with Available CRMs
2	14:10-14:30	Elizabeth Leese , Health and Safety Laboratory, Buxton, Derbyshire. Exhaled Breath Condensate: A Novel Matrix for Biological Monitoring to Assess Occupational Exposure to Respirable Crystalline Silica
3	14:30-14:50	Calum Greenhalgh , Department of Chemistry, University of Loughborough. Oxaliplatin Imaging in A549 Cells by High Resolution Laser Ablation Inductively Coupled Plasma Mass Spectrometry



2 - 4th July, 19th Biennial National Atomic Spectroscopy Symposium, SW London

Tea Break	14:50-15:30	Cream tea on the lawn (weather permitting)
		Session 2: Metallomics Session Chair: Jackie Morton
4	15:30-16:10	Keynote 2: Wolfgang Maret , School of Life Course Sciences, King's College London A metallomics approach to human metal metabolism
5	16:10-16:30	Claudia Swart , Physikalisch-Technische Bundesanstalt, Braunschweig, Germany Reference Measurement Procedures to Elucidate the Role of Metalloproteins in Alzheimer's Disease
Poster Session 1	16:30-17:30	Wine Reception and Poster Session 1: Biomedical, Quality Assurance and Instrumentation, Student Union and Bar Area
Social and Networking Event	18:30-23:00	ICE Breaker: Boat cruise up the Thames from Richmond to Hampton Court Palace and back. Fish n Chip supper (vegetarian option available). A coach from St Mary's university will take participants the short trip to Richmond where we will embark on the Thames cruiser "Queen Elizabeth". The coach will leave promptly at 18:35 and return to St Mary's University at 23:00.



Tuesday 3 rd July		
Main Programme, Main Lecture Theatre G7		
Session 3: Current Innovations in Instrumental Analysis Session Chair: Phil Riby		
6	9:00-9:40	Keynote 3: Mark Rehkamper , Department of Earth Science & Engineering, Imperial College, London. Isotope Ratios and Society
7	9:40-10:05	Phil Shaw , Ametek, Wrexham, Wales. Design considerations for a multi-collector ICP-MS with a multi-pole collision cell interference removal device
8	10:05-10:30	Ben Russell , National Physical Laboratory, Teddington. Comparison of tandem inductively coupled plasma mass spectrometry (ICP-MS/MS) for nuclear and gas particle metrology applications
Tea Break	10:30-11:00	Tea Break and Vendors Exhibition, Student Union
9	11:00-11:40	Keynote 4: Wolfgang Muller , RHUL, Institute of Geosciences, Goethe-Universität Frankfurt Novel Applications in LA-ICP-MS
10	11:40-12:05	Giles Edwards , Surface Analysis Research Centre, University of Manchester. Development of novel compact carbon dating instrument based on Collinear Resonance Ionisation Spectroscopy (CRIS)
11	12:05-12:30	Simon Nelms , ThermoFisher Scientific, Hemel Hempstead. Advances in triple quadrupole ICP-MS for environmental and food analysis.
12	12:30-12:55	Rai Wahlen , Agilent Technologies, Cheadle Practical Benefits of Abundance Sensitivity Using ICP-QQQ
Lunch	13:00-14:00	Lunch: Manufacturers in the "Atomic Spectroscopy Dragon's Den" Instrument manufacturers meet the Atomic Spectrometry Panel, Student Union
Session 4: New developments in Elemental Speciation Session Chair: Steve Hill, University of Plymouth and Atomic Spectroscopy Group.		
13	14:00-14:40	Keynote 5: Joerg Feldman , TESLA, University of Aberdeen. Speciation Applications
14	14:40-15:05	Phil Riby , University of Manchester, The speciation of arsenic in antacid formulations as part of Q3D regulations



Poster Session 2	15:05-16:00	Tea and Poster Session 2: Speciation, Nanoparticles, Environmental and Food Analysis, Student Union
15	16:00-16:30	Mesay Wolle , Centre for Food Safety and Applied Nutrition, US Food and Drug Administration. Solutions for challenges in arsenic speciation analysis in seafood and seaweed
16	16:30-17:00	Shaun Lancaster , PS Analytical, UK Mercury speciation using photochemical vapour generation with LC-UV-CV-AFS – A greener and more cost effective method.
17	17:00-17:30	Nunnapus Laitip , TESLA, University of Aberdeen. The simultaneous speciation of Se/Hg species in long-finned pilot whale (<i>Globicephala melas</i>)
Social Event	19:00-23:00	Conference Dinner Waldegrave Rooms, St Mary's University Starters will be served at 19:30



Wednesday 4 th July		Main Programme
		Session 5: The Measurement of Nanoparticles Chair: Liz Leese, HSL, Buxton
18	9:00-9:30	Phil Shaw , Ametek, Wrexham, Wales. Detecting sub-10nm particles with greater accuracy using SP-ICP-MS in the presence of background signals due to ionic content of the element of interest in the sample.
19	9:30-10:00	Chris Harrington , SAS Trace Element Laboratory, Guildford. Characterization of Nanoparticles and Metal-protein Binding in Biological Fluids from Hip-replacement Patients.
20	10:00-10:30	Kenneth Nwoko , TESLA, University of Aberdeen. Selenium nanoparticles produced by the fungus <i>Aureobasidium pullulans</i> : Separation, detection and sizing by asymmetric flow field flow fractionation (AF4) with online inductively coupled plasma mass spectrometry.
Tea Break	10:30-11:00	Tea Break, Student Union
		Session 6: Food and Environmental Applications Chair: Chris Harrington
21	11:00-11:30	Keynote 6: Marina Patriarca , Istituto Superiore di Sanità, Rome, Italy Harmonisation of Results for Determination of Nickel in Food: A New Analytical Challenge
22	11:30-12:00	Michael Ho Pan Yau , Government Laboratory, Hong Kong, China Inorganic Arsenic in Aquatic Products
23	12:00-12:30	Alá Alnaimat , University of Santiago de Compostela, Spain In Vitro Study of the Bioavailability of Major and Trace Elements in Tea Samples
24	12:30-13:00	Christine Davidson , Department of Pure and Applied Chemistry, Strathclyde University. Bioaccessibility of potentially toxic element associated with plastic resin pellets collected from the River Forth, Scotland, UK
	13:00-13:05	Close and Final Remarks Dr Chris Harrington
Lunch	13:05	Lunch, Student Union and Depart