

**Analytical Research Forum 2013**  
**8 – 10 July 2013, University of Hertfordshire & GlaxoSmithKline, UK**

**Programme**

**Monday 8 July 2013**

<b>11:30 – 12:30</b>	<b>Registration in the Atrium</b>
<b>12:00 – 12:50</b>	<b>Lunch in the Comet Room of Club de Havailland</b>
<b>13:00</b>	<b>Coach to GSK Stevenage and security checks</b>
<b>13:50</b>	<b>Welcome and Introduction</b> Dr Sara Evans ( <i>University of Hertfordshire, UK</i> ) Dr Mike Webb ( <i>GSK, UK</i> )
<b>Session 1</b>	
<b>14:05 – 14:50</b>	<b>KEYNOTE: L S Theobald Lectureship 2012 - Sampling: often the source of most uncertainty in analytical measurements</b> Prof. Mike Ramsey* <i>University of Sussex, UK</i>
<b>14:50 – 15:10</b>	<b>Development of Lab on a chip pre-concentration system for metals in seawater</b> Marta Skiba*, Matt C Mowlem and Peter J Statham <i>National Oceanography Centre, UK</i>
<b>15:10</b>	<b>Afternoon Tea (and poster set up)</b>
<b>15:45 – 16:05</b>	<b>Paper microfluidics for point of care diagnosis of anaemia and renal Function</b> Amy Dawson*, John G Cleland, Sandra A Jones and Tom McCreedy <i>University of Hull, UK</i>
<b>16:05 – 16:25</b>	<b>The developing role of tunable resistive pulse sensing in bioassays</b> Emily Billinge* and Mark Platt <i>Loughborough University, UK</i>
<b>16:25 – 16:45</b>	<b>Trace metal analysis in pharmaceutical formulations</b> Philip Salmon*, Philip G Riby, Simon D Brandt, Mark Wainwright and Matt Roberts <i>Liverpool John Moores University, UK</i>
<b>16:45 – 18:00</b>	<b>Poster session and wine reception</b>
<b>18:10</b>	<b>Coach returns to University of Hertfordshire</b>
<b>19:15</b>	<b>Coach departs to go to the Fielder Centre</b>
<b>19:30</b>	<b>Dinner in the Fielder Centre followed by a QUIZ NIGHT in the Fielder Centre</b>
	<b>Coach back to De Havailland Campus after dinner</b>

**Tuesday 9 July 2013 (morning)**

<b>08:30</b>	<b>Coach to GSK Stevenage and security checks</b>
<b>Session 2</b>	
<b>09:15 – 10:00</b>	<b>KEYNOTE: L S Theobald Lectureship 2010 - Lessons to be learnt from twenty five years of analytical quality assurance, measurement uncertainty and metrological traceability</b> Dr Mike Sargent* <i>LGC Ltd, UK</i>
<b>10:00 – 10:20</b>	<b>Simultaneous detection of bacterial meningitis pathogens using SERS and lambda exonuclease</b> Kirsten Gracie*, Jennifer A Dougan, Duncan Graham and Karen Faulds <i>University of Strathclyde, UK</i>
<b>10:20</b>	<b>Morning Coffee poster session</b>
<b>10:50 – 11:10</b>	<b>Controlled surface morphologies for 3 dimensionally ordered monolithic conducting polymer materials in microfluidic analytical platforms</b> Brian Gorey*, Malcolm R Smyth, Blanaid White and Aoife Morrin <i>Dublin City University, Republic of Ireland</i>
<b>11:10 – 11:30</b>	<b>Towards SI-traceable quantification of allergen proteins and production of reference materials: alpha s1 casein</b> Kate Groves*, Michael Walker and Milena Quaglia <i>LGC Ltd, UK</i>
<b>11:30 – 11:50</b>	<b>Environmental applications of cavity enhanced spectroscopy: Trace gas analysis</b> Tanya Chase*, Douglas J Hamilton and Andrew J Orr-Ewing <i>University of Bristol, UK</i>
<b>12:00</b>	<b>Lunch and tours of GSK site</b>

**Tuesday 9 July 2013 (afternoon)**

Session 3	
13:30 – 14:15	<b>KEYNOTE: Tom West Analytical Fellowship - Recent advances in metabolic profiling and application in studies of the human exposome</b> Dr Toby Athersuch* <i>Imperial College London, UK</i>
14:15 – 14:35	<b>Microfluidics: elements of analytical chemistry and the new frontiers in cell biology</b> Jonathan West* <i>University of Southampton, UK</i>
14:35 – 14:55	<b>Novel bio-inspired sensory material for implantable tissue applications</b> Nyasha Ntola* and Ritu Katakya <i>University of Durham, UK</i>
14:55	<b>Afternoon Tea and poster session</b>
15:30 – 15:50	<b>Fabric microfluidics for low-cost protein separations</b> Tanya Narahari*, Dhananjaya Dendukuri and Shashi K Murthy <i>Northeastern University, USA</i>
15:50 – 16:10	<b>Additive enhanced MALDI analysis of lipids by MS, MS/MS and MSI</b> Rian Griffiths* and Josephine Bunch <i>University of Birmingham, UK</i>
16:10 – 16:30	<b>Development of a printed biosensor for selective determination high density lipoprotein cholesterol (HDL-C)</b> Termeh Ahmadraji*, Laura Gonzalez-Macia and Anthony J Killard <i>University of West of England, UK</i>
16:45	<b>Coach returns to University of Hertfordshire</b>
19:15	<b>Coach to the Fielder Centre</b>
19:30	<b>Conference dinner in the Fielder Centre</b> Casino and evening entertainment after dinner
	<b>Coaches back to De Havilland Campus</b>

Wednesday 10 July 2013

08:30	Coach to GSK Stevenage and security checks
Session 4	
09:15 – 10:00	<b>KEYNOTE: In situ measurements for the development and monitoring of chemical processes</b> Dr Alison Nordon* <i>University of Strathclyde, UK</i>
10:00 – 10:20	<b>A competitive enzyme immunoassay for the determination of cocaine on banknotes</b> Susan van der Heide*, Andrew Cunningham, Sheila Hardwick and David A Russell <i>University of East Anglia, UK</i>
10:20	Morning Coffee and poster session
10:50 – 11:20	<b>INVITED: Geoffrey Phillips Award for Analytical Science</b> <b>Photothermal Infrared Microspectroscopy - a novel method for the analysis of single particles of pharmaceutical materials</b> Dr Jonathan Moffat* <i>University of East Anglia, UK</i>
11:20 – 11:50	<b>INVITED: Ronald Belcher Award</b> <b>Graphene electrochemistry: from fundamentals to electroanalytical applications</b> Dale Brownson* <i>Manchester Metropolitan University, UK</i>
11:50	Presentation of awards and prizes
12:05	Poster take down
12:30	Coach departs to University of Hertfordshire

\* Denotes presenting author