


Sunday 22nd April

18.30 – 19.30	Registration and Wine Reception
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Monday 23rd April

08.00 – 09.30	Registration
09.30 – 09.45	Welcome and Introductions: Chris Lowe and Tim Swager
	Session Chair: Chris Lowe
09.45 – 10.15	KEYNOTE 1 Automated Biosensors for BW Threat Detection Frances Ligler, <i>Naval Research Laboratory</i>
10.15 – 10.45	KEYNOTE 2 Stochastic sensing with engineered protein pores Hagan Bayley, <i>University of Oxford</i>
10.45 – 11.15	Morning Coffee
Session 1	New Advances in Bioanalytical Analysis
11.15 – 11.45	KEYNOTE 3 Nanoparticle approaches for detection of biomolecules Duncan Graham, <i>University of Strathclyde, UK</i>
11.45 – 12.05	C1 Detection of biological agents using bio-aerosol mass spectrometry Erica L McJimpsey,* Paul T Steele, Herbert Tobias, Bruce Woods, David Fergenson, Matthias Frank, Keith Coffee, Vincent Riot, Kuan Jen J Wu, Eric E Gard, Carlito Lebrilla, <i>Lawrence Livermore National Laboratory, USA</i>
12.05 – 12.25	C2 Rapid characterisation of bacteria using surface enhanced Raman spectroscopy Royston Goodacre* and Roger Jarvis, <i>University of Manchester UK</i>
12.25 – 14.00	Lunch
14.00 – 14.20	C3 Toxicity sensors based on membrane organization Andrew Nelson, <i>University of Leeds, UK</i>
14.20 – 14.40	C4 Non-antibody-based detection of biothreats Chris R Taitt,* Nadia V Kulagina, George P Anderson, Frances S Ligler, <i>Naval Research Laboratory, USA</i>
14.40 – 15.00	C5 Bringing the power of immunoassay to rapid point-of-need tests for toxic chemical substances Colin Self, <i>Selective Antibodies Ltd, UK</i>
15.00 – 15.30	Afternoon Tea
Session 2	New Optical Methods and Multiplexing
	Session Chair: Tim Swager
15.30 - 16.00	KEYNOTE 4 Ultrasensitive detection with optical sensor microarrays David Walt, <i>Tufts University</i>
16.00 – 16.20	C6 Development of low-cost multi-channel aerosol fluorescence sensors Virginia Foot*, Stephen J Barrington, Andy Pickering and Paul H Kaye, <i>DSTL, UK</i>

16.20 – 16.40	C7 Advances in vapor phase explosives detection: laser sensors, photonic bandgap fibers, and RDX and TATP- detection Aimee Rose, <i>ICx-Nomadics, USA</i>
16.40 – 17.00	C8 Towards new imaging technology using delayed florescence Andrew C Benniston* and Anthony Harriman, <i>University of Newcastle, UK</i>
17.30	Poster Session sponsored by ICx-Nomadics, USA 
19.00	Pre-Dinner Drinks (By ticket only)
19.30	Conference Dinner (By ticket only)

Tuesday 24 April 2007

Session 3	New Advances in Instrumentation
	Session Chair: Andy Bell
09.00 – 09.30	KEYNOTE 5: Desorption electrospray ionization (DESI) and miniature mass spectrometry: A general approach for threat detection Rob Noll, <i>Purdue University</i>
09.30 – 09.50	C9: Lab-on-a-Pill: Future directions in low power microfluidics for wireless biosensors Jon Cooper, <i>University of Glasgow, UK</i>
09.50 – 10.10	C10: A piezoresistive cantilever-based sensor for gas-phase chemical detection Bradley R Hart*, Timothy V Ratto, Albert Loui, Thomas S Wilson, Erik V Mukerjee, Todd A Sulchek and Stephan P Velsko, <i>Lawrence Livermore National Laboratory, USA</i>
10.10 – 10.30	C11: The development of a handheld amperometric explosives biosensor, involving the orientationally controlled assembly of genetically modified enzymes C D Gwenin* and M Kalaji, <i>University of Wales Bangor, UK</i>
10.30 – 11.00	Morning Coffee
11.00 – 11.20	C12: Field-based detection and identification of hazardous gases and vapors using hand-held, ruggedized orthogonal sensing technology Eric G Diken*, Aaron Gagnon and Iain May, <i>Smiths Detection, USA</i>
Session 4	Biosensors
	Session Chair: Stephen Lee
11.20 – 11.50	KEYNOTE 6: Managing the sample interface: a materials strategy for sensing Pankaj Vadgama, <i>Queen Mary University of London</i>
11.50 – 12.10	C13: Enzyme-based sensors for the detection of high explosives Neil C Bruce*, Zoe Symons, Rosamund Jackson, Nicholas Goddard and Stephen Nicklin, <i>University of York, UK</i>
12.10 – 12.30	C14: Bioinspired defence: How can nature benefit defence and national security? Peter D E Biggins*, Anne Kusterbeck, Lars T Piehler, John Lewis and John A Hiltz, <i>DSTL, UK</i>
12.30 – 14.00	Lunch
	Session Chair: Chris Lowe
14.00 – 14.30	KEYNOTE 7: Ultrasensitive Biosensing with Enzymatically Amplified SPR Imaging Robert Corn, <i>University of California, USA</i>
14.30 – 14.50	C15 Intelligent fingerprinting with antibody-functionalised nanoparticles Richard Leggett, Emma E Lee-Smith, Sue M Jickells and David A Russell* <i>UEA, UK</i>

14.50 – 15.10	C16 A Review of Biosensors for Explosives Detection Richard Smith, <i>DSTL Fort Halstead, UK</i>
15.10 – 15.30	C17 Resequencing DNA Microarray for Broad Spectrum Pathogen Identification and Characterization Baochuan Lin, Anthony P Malanoski, Kate M Blaney, Zheng Wang, Carolyn E Meador, Clark Tibbetts, Joel M Schnur*, David A Stenger, <i>Naval Research Laboratory</i>
15.30 – 16.00	Afternoon Tea
Session 5	New Chemistry and Materials for Sensing
	Session Chair: Paul O'Brien
16.00 – 16.20	C18 Explosives detection with organic hydride donors Trisha L Andrew* and Timothy M Swager, <i>Massachusetts Institute of Technology, USA</i>
16.20 – 16.40	C19 Spiropyran-based polymer: A new approach to chemical sensing Aleksandar Radu*, Silvia Scarmagnani, Robert Byrne, Conor Slater, Nameer Alhashimy and Dermot Diamond, <i>Dublin City University, Ireland</i>
16.40 – 17.00	C20 Development of carbon nanotube-based sensors Lee Hubble*, R John Watling and Colin Raston, <i>University of Western Australia, Australia</i>
17.00 – 17.20	C21 Advances in fabrication of silver nanostructures for use in surface enhanced raman spectroscopy - prospect of ultra-sensitive detection of explosives Azfar Ali Syed**and S Rafi Ahmad*, <i>Cranfield University, UK</i> ** work being presented by Azfar Syed
17.20 – 17.50	KEYNOTE 8 From detectors to detection. Systems, networks, and the human interface Duane Lindner, <i>Sandia National Laboratories, USA</i>
17.50	Closing Remarks: Andy Bell, Chris Lowe and Tim Swager