

Lasers for Science Facility User Meeting 24th – 26th April 2012

PROGRAMME

Lasers for Science Facility User Meeting 24th – 26th April 2012 Abingdon - The Guildhall and The Cosener's House

TUESDAY 24TH APRIL: The Guildhall, Abbey Close, Abingdon

13:00 – 13:30 REGISTRATION AT THE GUILDHALL

12:30	LUNCH - THE COSENER'S HOUSE
13:30	<i>Prof John Collier - Central Laser Facility Director, Dr Dave Clarke - Laser for Science Facility Division Head, Science & Technology Facilities Council Welcome and introduction</i>
13:50	<i>Professor Simon Phillips - The Research Complex The Research Complex at Harwell</i>

Session 1 Chair - Dr David Clarke (Science & Technology Facilities Council)

14:00	<i>Keynote Lecture - Prof Ian Robinson - University College London X-ray imaging coupled with pump-probe laser excitation of nanocrystals</i>
14:40	<i>Presentations from Research Councils with Q & A session Dr Susan Morrell - EPSRC, Dr Colin Miles - BBSRC, Dr Adam Babbs - MRC</i>
15:10	<i>Dr Mike Towrie - Science & Technology Facilities Council ULTRA instrumentation update</i>
15:30	<i>Dr Ray Owens The Oxford Protein Production Factory UK at the Research Complex at Harwell</i>
15:40	COFFEE/TEA - THE GUILDHALL

Session 2 Chair - Dr Julia Weinstein (University of Sheffield)

16:10	<i>Dr Emma Springate - Science & Technology Facilities Council Ultrafast XUV science at the Artemis Facility</i>
16:40	<i>Prof Mike George - University of Nottingham Can Time-resolved IR measurements help time resolved X-ray experiments? Dr Daniel Murdock - University of Bristol</i>
17:00	<i>Linking Photochemistry in the Gas and Solution Phase: S-H/S-Me Bond Fission following UV Photoexcitation</i>
17:20	<i>Dr Peter Portius - University of Sheffield Photochemistry of nitrogen-rich compounds</i>
17:40	<i>Prof Nick Terrill - Diamond Light Source Synchrotrons and Lasers – Where's the Synergy?</i>
18:10	SESSION ENDS

The Cosener's House

18:30	DINNER and Poster Session
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WEDNESDAY 25TH APRIL: The Guildhall, Abbey Close, Abingdon

Session 3

9:00	Keynote Lecture - Prof John Simons FRS - University of Oxford Sweetness and Light: Shape Shifting Sugars
9:40	Dr Neil Hunt - University of Strathclyde <i>Ultrafast Fourier Transform 2D-IR Spectroscopy of Biomolecular Systems</i>
10:00	Dr Julia Weinstein - University of Sheffield <i>Following photoinduced charge separation by ultrafast transient (2D) IR spectroscopy</i>
10:20	Henry Russell - University of Manchester <i>Furthering the understanding of Ethanolamine Ammonia Lyase using Dynamic Infrared Techniques</i>
10:40	TEA/COFFEE - THE GUILDHALL

Session 4 **Chair - Dr Susan Quinn (University College Dublin)**

11:10	Dr Marisa Martin-Fernandez - Science & Technology Facilities Council <i>OCTOPUS Cluster Update</i>
11:30	Prof Paul Raithby - University of Bath <i>Dynamic Processes in Transition Metal Complexes across the Timescales</i>
11:50	Prof Steve Meech - University of East Anglia <i>Transient IR studies of blue light sensing flavoproteins</i>
12:10	Richard Taylor - University of St Andrews/Diamond Light Source <i>Using FLIM and XEOL to explore defect heterogeneity in minerals</i>
12:30	Dr Pamela Reynolds - University of Oxford <i>The real time kinetics of BER proteins at sites of radiation induced DNA damage</i>
12:50	GROUP PHOTOGRAPH & LUNCH - THE COSENER'S HOUSE

Session 5 **Chair - Prof Tony Parker (Science & Technology Facilities Council)**

14:00	Keynote Lecture - Prof David Phillips CBE - President of the Royal Society of Chemistry Prosperity through Chemistry
15:00	Prof Robin Perutz FRS - University of York <i>Carbon dioxide as a solar fuel</i>
15:20	Dr Sofia Pascu - University of Bath <i>Confocal Fluorescence and Fluorescence Lifetime Imaging of Small Molecules and Functionalised Carbon Nanotubes in Cancer Cells</i>
15:40	TEA/COFFEE - THE GUILDHALL

Session 6 **Chair - Prof Robin Perutz FRS (University of York)**

16:10	User Consultation and Feedback Session - Prof Robin Perutz FRS - Chair of LSF Facility Access Panel
17:10	Prof Chris Stubbs - Science & Technology Facilities Council <i>Fluorescence imaging studies of cell membrane organisation and signalling interactions</i>
17:30	Dr Araida Hidalgo - University of Manchester <i>Multi-modal Imaging for Biomaterials and Regenerative Medicine Applications</i>
17:50	Marleen Kerssens - Gloucester Hospitals NHS Trust <i>Exploring deep Raman spectroscopy for real-time non-invasive diagnosis of breast cancer</i>
18:10	SESSION ENDS

The Cosener's House

18.45	DINNER, Poster Parade and Poster Session
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THURSDAY 26TH APRIL: The Guildhall, Abbey Close, Abingdon

Session 7 Chair - Prof Roger Bisby (University of Salford)

9:00	Keynote Lecture - Prof Helen Saibil FRS - Birkbeck Macromolecular structure determination by cryo-EM
	<i>Dr Susan Quinn - University College Dublin</i>
9:40	<i>Ultrafast study of the excited state dynamics of Guanine and Cytosine systems: Identifying the presence of the Guanine radical cation?</i>
	<i>Prof Chris Hawes - Oxford Brookes University</i>
10:00	<i>Lasers for the study of the plant endomembrane system - continued</i>
	<i>Dr Chris Tynan - Science & Technology Facilities Council</i>
10:20	<i>Investigating the structure, function and dynamics of ErbB receptors at the plasma membrane</i>
	<i>Dr Fred Currell - Queen's University Belfast</i>
10:40	<i>Gold nanoparticles: a new approach to radiotherapy?</i>
11:00	COFFEE/TEA - THE GUILDHALL

Session 8

	<i>Dr John Runions - Oxford Brookes University</i>
11:20	<i>Protein dynamics in the plasma membrane: what can we learn using TIRF microscopy and single molecule tracking?</i>
	<i>Prof Roger Bisby - University of Salford</i>
11:40	<i>Activation of combretastatin anti-cancer drugs by two-photon induced isomerization</i>
	<i>Dr Ian Clark - Science & Technology Facilities Council</i>
12:00	<i>Loan Pool Update</i>
	<i>Dr Erik Wagenaars - University of York</i>
12:20	<i>Measuring atomic nitrogen in atmospheric-pressure plasma jets</i>
	<i>Prof Jeremy Frey - University of Southampton</i>
12:40	<i>TBC</i>
13:00	LUNCH - THE COSENER'S HOUSE

Session 9 Chair - Dr Araida Hidalgo (University of Manchester)

	<i>Dr Will Bryan - University of Swansea</i>
14:00	<i>Towards femtosecond electron diffraction</i>
	<i>Dr Stuart Greaves - University of Bristol</i>
14:20	<i>ULTRA-fast study of bimolecular reactions in solution</i>
	<i>Dr Neil Kad - University of Essex</i>
14:40	<i>Direct manipulation of single protein molecules on a DNA nanowire using optically tweezed synthetic nanoprobe</i>
	<i>Dr Gareth Williams - University of Durham</i>
15:00	<i>Time-resolved emission imaging microscopy with metal complexes</i>
	<i>Dr Andy Alexander - University Edinburgh</i>
15:20	<i>Laser-induced nucleation</i>
	<i>Prof Stephen Faulkner - University of Oxford</i>
15:40	<i>Single and multi-photon spectroscopy of lanthanide species</i>
16:00	Meeting Close