

THURSDAY			
	LIFE	NEW FRONTIERS	MATERIALS
Symposia title	L3.1 Imaging beyond the resolution limit in live cells	N3.1 Other Microscopies – nanosims, atom probes, helium ions	M3.1 Electron Spectroscopy
Organisers	Dr Michelle Peckham (Leeds University) and Dr David Stephens (University of Bristol)	Prof Chris Grovenor (Oxford University) & Dr John Hutchison (Oxford University)	Prof Mark Rainforth (University of Sheffield) and Prof Rik Brydson (University of Leeds)
09.00am	Plenary - Professor Wolfgang Baumeister (Technical University of Munich) 'Cryo-electron microscopy: From molecules to systems'		
10.00am	Break		
10.30am	INVITED Development of OMX as a platform for super-resolution live cell imaging, Richard Parton (University of Oxford)	INVITED Seeing and measuring stable isotope tags in subcellular domains with ion microscopy, Claude Lechene (Harvard Medical School)	INVITED Atomic resolution EELS: hitting the physical limits? Johan Verbeeck (University of Antwerp)
10.45am			
11.00am		Helium Ion Microscopy for materials characterization, Dr Cornelia Rodenburg (University of Sheffield)	Chemical and electronic properties of (001) and (110) SrTiO ₃ /La ₂ /3Ca ₁ /3MnO ₃ interfaces assessed by EELS, Dr Sonia Estrade (Universitat de Barcelona)
11.15am	Super-resolution imaging of subcellular organelles by structured illumination microscopy, Dr Liisa Hirvonen (University of Melbourne)	Influence of stress and cold work on stainless steel grain boundary oxidation investigated by electron microscopy and atom-probe tomography, Ms Karen Kruska (University of Oxford)	Using low voltages in a TEM for probing optical properties, Dr Michael Stoeger-Pollach (Vienna University of Technology)
11.30am	INVITED Dynamics and thermodynamics of homologous recombination, Giovanni Cappello (Institut Curie, France)	INVITED Microscopy of Mars, Dr Tom Pike (Imperial College, London)	Low-loss electron energy loss spectra of Mo ₆ S ₃ I ₆ nanowires, Dr Rebecca Nicholls (University of Oxford)
11.45am			EELS and atomic imaging of partial cation-ordering in Li _x Ni _{1-x} O, Dr Zhaoxia Zhou (University of Sheffield)
12.00pm		Coherent X-ray Imaging of Paint Pigments by Scanning Phase Plate Modulator, Mr Bo Chen, UCL	INVITED Towards more quantitative EELS: Possibilities with a novel Electron Energy-Loss spectrometer, Prof Dr Gerald Kothleitner (Graz University of Technology)
12.15pm		Completely lensless diffractive optical microscopy with aberration-free sub-micron resolution, Dr Martin Humphry (Phase Focus Limited)	
12.30pm	UK SPM Plenary 2 Dr Leo Gross (IBM Research, Zurich) Individual Molecules investigated by Noncontact AFM		
TITLE	L3.2 Correlative Microscopy	N3.2 Advances in Fluorescent Probes	M3.2 Nano-whatnots: dots, wires, tubes and sheets.
Organisers	Dr Paul Verkade (University of Bristol)	Prof Dorus Gadella (University of Amsterdam) and Dr Steve Briddon (University of Nottingham)	Dr John Hutchison (Oxford University) and Dr Jeremy Sloan (University of Warwick)
2.30pm	INVITED Correlative light and volume electron microscopy – finding the needle in the haystack, Dr Lucy Collinson (London Research Institute)	INVITED Sensing proton and calcium microdomains with FRET-based nanobiosensors, Dr Martin Oheim (INSERM, Paris)	INVITED Microscopy at the bottom, Dr Ute Kaiser (University of Ulm)
2.45pm			
3.00pm	3D Correlative microscopy – a new tool for systems biology, Dr Miriam S Lucas (ETH Zurich)	Multi-targeting of biomarkers combined with in situ assessment of DNA ploidy as possible predictors of malignant transformation, Mrs Irene Otte-Holler (UMCN St-Radboud)	Direct observation of the influence of Ni seed catalysts on the growth of GaN-AlGa _n axial heterostructure nanowires by MBE, Dr Leonardo Lari (University of Sheffield)
3.15pm	Simultaneous single molecule atomic force and fluorescence lifetime imaging, Dr Marcelle Koenig (PicoQuant GmbH)	Using confocal microscopy, a perfusion system and novel fluorescent probes to analyse the kinetics of agonist-receptor interactions in living cells, Mr Tim Self (University of Nottingham)	3D characterization of helical silver nanochains mediated by protein assemblies, Mr Frederic Leroux (University of Antwerp)
3.30pm	INVITED Correlative fluorescence and electron microscopy in tissues, Prof John Robinson (Ohio State University)	INVITED Fluorescent proteins: inert labels or photochemical partners, Dr Konstantin Lukyanov (University of Moscow)	Size-dependent phase diagram of nanoscale alloy drops: Understanding nanowire growth at the ultimate size limit, Dr Eli Sutter (Brookhaven National Laboratory)
3.45pm			In-situ TEM Investigation of the formation process of PbTe nanocrystals in bulk CdTe, Mr Heiko Groiss (Johannes Kepler University Linz)
4.00pm	Biological applications of integrated laser and electron microscopy (iLEM), Ms Matthia Karreman (Utrecht University)		INVITED Design, synthesis, characterisation of novel magnetic nanoparticles for biomedical applications, Dr Nguyen Thanh (UCL)
4.15pm	An integrated approach to correlative microscopy, Ms Alexandra Agronskaia (Utrecht University)		
4.30pm	Close		