

3rd UK FIB & EM Prep User Group Meeting

Tuesday 30 June 2015



Scientific Organiser: Xiangli Zhong, University of Manchester

1200-1400	Registration	
1400-1415	Natalie Reznikov, Imperial College	3D imaging of the extracellular matrix with a FIB-SEM, Serial Surface View
1415-1430	Miki Tsuchiya, Hitachi High-Technologies Europe GmbH	Cryo-FIB thinning and STEM observation of liquid samples
1430-1445	Karl Dawson, University of Liverpool	Preparation of Mechanically Alloyed ODS Powders and Ferritic Alloy Micro-Foils for TEM/STEM Analysis
1445-1500	Michael Hassel Shearer, Gatan UK	A Calming Argon Ion Breeze to Soothe a Lamella from the Ravages of a Ga FIB
1500-1515	Matthias Kemmler, Kleindiek Nanotechnik GmbH	"iLO - A new approach to intuitive TEM sample lift out
1515-1530	Ingo Schulmeyer, Carl Zeiss Microscopy GmbH	Ease of use solution for fast and automated TEM-lamella preparation
1530-1600	Break	
1600-1630	Round Table Discussion	

Sponsors:



mmc2015 FIB EMAG Package

Conference Sessions



Tuesday 30 June – Wednesday 1 July 2015

Tuesday 30 June am

Advanced Specimen Preparation & Biological FIB		
0845	PLENARY LECTURE: Prof Petra Schwille – Biology scaled up in vitro: An alternative to higher resolution	
0930	Coffee Break & Exhibition	
1000	INVITED SPEAKER: Lucille Gianuzzi	Theory and new applications of ex situ lift out
1030	Dr C Parmenter, University of Sheffield	Making the impossible 'merely difficult' – cryogenic FIB lift-out for damage-free soft matter imaging
1045	Dr M Kemmler, Kleindiek Nanotechnik	iLO – A new approach to intuitive TEM sample lift out
1100	Dr C Langlois, CNRS France	Crystal Orientation Mapping via ion channeling: an alternative to EBSD
1115	Dr B Winiarski, University of Manchester	Large volume high resolution Plasma FIB Serial Sectioning Tomography
1130	Mr P Maguire, Trinity College Dublin	Ne ⁺ , He ⁺ and Ga ⁺ irradiation for nanometre tuning of 2D materials
1145	Lunch Break, Exhibition & Posters	

Wednesday 1 July am

FIB		
0845	PLENARY LECTURE: Prof Sir Colin Humphreys CBE – Electron Microscopy: a Key Technique to help save energy, purify water and improve our health	
0930	Coffee Break & Exhibition	
1000	INVITED SPEAKER: Gregor Hlawacek	Helium Ion Microscopy
1030	Dr D Fox, Trinity College Dublin	Nanopatterning and electrical tuning of MoS ₂ with a helium ion beam
1045	Dr J Sagar, London Centre for Nanotechnology	Direct nanostructuring at sub-50nm lengthscales using inert gas ion-beams
1100	Dr M Schmidt, Japan Advanced Institute of Science and Technology	Nitrogen ion beam microscopy for graphene based device fabrication
1115	Dr G Pimentel, University of Oxford	Achieving nm-resolution quantitative EDX SEM
1130	Dr V Oleshko, NIST, Maryland	Plasmon Spectroscopy and Imaging for in situ probing of nanoscale mechanical properties of electrochemical energy storage materials
1145	Dr C Rodenburg, University of Sheffield	Low Voltage Scanning Electron Microscopy to map nanoscale local order in carbon based materials
1200	Exhibition, Lunch & Posters – EMAG AGM at	

There is still time to upgrade your registration to conference delegate!
Just visit the Registration Desk!