

Nanoscale Centre of Excellence Demonstration Facility Open Day

Thermo Fisher Scientific,
Unit 24 The Birches, Imberhorne Lane,
East Grinstead, RH19 1UB

29 April 2014	AGENDA
09:00 – 09:30	Registration and coffee
09:30 – 09:45	Welcome and Introduction
09:45 – 10:00	Opening Ceremony <i>Guest</i>
10:00 – 10:45	XPS and the Thermo Scientific MAGCIS Cluster Ion Source at NEXUS <i>Prof. Peter Cumpson, NEXUS, University of Newcastle</i>
10:45 – 11:00	Coffee break
11:00 – 11:30	New developments in Surface Analysis <i>Dr Tim Nunney, Product Manager - Marketing</i>
11:30 – 12:10	Surface Analysis of Novel Materials: From 2D to Liquids <i>Dr Robert Palgrave, Department of Chemistry, University College London</i>
12:10 – 13:00	Lunch
13:00 – 15:00	Instrument demonstrations and factory tour: <ul style="list-style-type: none"> • Thermo Scientific K-Alpha X-ray Photoelectron Spectrometer (XPS) • Thermo Scientific ESCALAB 250xi (XPS) Microprobe • Thermo Scientific Theta Probe Angle-Resolved XPS System • TESCAN MIRA 3 FE-SEM equipped with the Thermo Scientific NORAN System 7 Microanalysis and UltraDry EDS, MagnaRay WDS and Quasor EBSD
15:00 – 15:30	Introduction to TESCAN electron microscopes <i>Ray Codd, TESCAN</i>
15:30 – 16:00	The Application of EBSD to the Characterisation of Engineering Materials <i>Dr Mark Whiting, Senior Lecturer in Physical Metallurgy & Electron Microscopy, School UG Admissions Tutor, University of Surrey</i>
16:00 – 16:30	Introduction to Microanalysis <i>Dr Chris Stephens, Applications Specialist</i>
16:30	Closing comments.

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Speakers

Dr Robert Palgrave – University College London

Dr. Robert G. Palgrave is a Lecturer in Inorganic Chemistry at University College London where he is responsible for Research in Materials Chemistry, supervision of research students and teaching. He is also the Manager of the UCL Chemistry XPS facility. Prior to this he was a Postdoctoral Research Assistant at the University of Liverpool and University of Oxford. Dr Palgrave has a PhD in Materials Chemistry and an MSc in Chemistry, University College London.

Prof. Peter Cumpson – Newcastle University

Professor Peter Cumpson is the Science City Professor in MEMS, the Director and Project Leader for the EPSRC funded National X-ray Photoelectron Spectroscopy (XPS) service (NEXUS) Newcastle University. NEXUS is hosted by the University's nanoLAB Research Centre. Prior to this Prof. Cumpson was a Fellow at the National Physical Laboratory, UK and studied Chemistry at the University of Cambridge.

Dr Mark Whiting – University of Surrey

Mark Whiting has worked on phase transformations and microstructural characterisation of alloys for more than 20 years. Much of his early work made use of transmission electron microscopy and electron diffraction. His current research interests include glass-ceramic/metal seals, Ti-SiC metal matrix composites, processing of WC-Co and the microstructure of additive-manufactured metals. His research partners include AWE, Lockheed Martin, Rolls-Royce, TISICS Ltd. and TWI. An area of growing importance in his work is the use of EBSD to characterise a wide range of engineering materials.

Dr Richard White – Thermo Fisher Scientific

Dr Richard White is the Marketing Manager for Nanoscale Material Analysis at Thermo Fisher Scientific. He is responsible for managing the Nano-scale Material Analysis Business Unit in East Grinstead. Prior to this Richard was a Postdoctoral Researcher at the University of Liverpool. Richard has a PhD in Physics, University of Liverpool.

Dr Tim Nunney – Thermo Fisher Scientific

Dr Tim Nunney is the Surface Analysis Product Manager (Marketing) at Thermo Fisher Scientific, based in East Grinstead. His role involves all aspects of product marketing for the surface analysis product line, including collateral development, customer evaluations, product development and commercial support. He has been with Thermo Fisher Scientific for 10 years, and prior to that he was a Post Doctoral Research Fellow in the Department of Chemistry at the University of Southampton. Tim has a PhD and MSc in Surface Science, University of Liverpool and a BSc Hons in Chemistry, University of Nottingham, UK.