

Midland Microanalysis Users Group meetings

Forthcoming Meetings

Wednesday 31st October 2012, Loughborough University

[Click here for the programme \(/Documents/college-eps/metallurgy/cem/MMUG-31Oct2012.pdf\)](#) (PDF, 50KB).

Previous Meetings

Wednesday 14 March at University of Warwick

Meeting Theme was Quantification

Wednesday 12th October 2011, Loughborough University

The topics and speakers were as follows.

- Clair Collins Oxford Instruments. "Wavelength dispersive spectroscopy."
 - Hans Dijkstra. Thermo Fisher Scientific. "Recent developments in Parallel-Beam WDS technology."
 - Mark Jepson Department of Materials. University of Loughborough. "Secondary electron dopant contrast in SEM and HeIM."
 - Hans Dijkstra Thermo Fisher Scientific. "Combined EBSD and EDS analysis"
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Wednesday 23rd March 2001, Loughborough University.

The theme of this meeting was 3D Analysis. Speakers were:

- Dr Richard Beanland (Department of Physics, University of Warwick)
"3D measurement and analysis of Ni superalloys using FIB/SEM"
 - Dan Child (Department of Materials, Loughborough University)
"The development and validation of a 3D EBSD/EDX serial milling technique to distinguish γ in a Ni-based superalloy"
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March 25 2009. Alstom Rugby, acknowledging the kind assistance of Janet Ivers.

The topics and speakers were as follows.

- Exploring Practical Boundaries in Microanalysis - Noel Peat, Consultant, Derby
 - Spatial Variations in Minerals Chemistry; Clues to Deformation Mechanisms – Prof. John Wheeler, Liverpool University
 - Microanalysis in Geology - Dr. Mike Styles, British Geological Survey, Kegworth, and UAE
 - Microanalysis in Industry - Janet Ivers, Alstom, Rugby
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19 November 2008, Loughborough University.

Engineering Materials at the Atomic Scale, Professor Alfred Cerezo, Professor of Materials, Oxford University.

The 3-D atom probe is unique in allowing chemical analysis of materials at the ultimate spatial resolution, that of individual atom. Ultra-fine scale microstructures in engineering materials which are important in defining their useful properties can be imaged in 3-D and with atomic resolution. The data available from the technique also allows a direct comparison with atomistic modelling of, for example, the formation of second phase precipitates in a steel. This talk will describe the atom probe tomography technique, with examples from steels used in power generation, and thin-film materials used for information storage devices.

Wednesday Oct 18th 2006 - Electron Backscattered Diffraction - Keith Dicks Oxford Instruments.

- [Presentation \(PDF, 16MB\) \(/Documents/college-eps/metallurgy/cem/IntroEBSD63slidesv2.pdf\)](#)
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Wednesday March 29th 2006 - Celebrity Presentation on TEM microanalysis - Loughborough University.

Dale Newbury of the National Institute of Standards and Technology, Gaithersburg, MD 20899-8371, USA, gave a lead talk at the October MMUG meeting on his latest work with the new ambient temperature high count rate ED detectors. ([Abstract - pdf 12KB \(/Documents/college-eps/metallurgy/cem/newburyabstract.pdf\)](#))

Wednesday October 6th 2004 at Department of Metallurgy & Materials, University of Birmingham.

Analysis of C in steels, Stuart Saunders, (NPL)
Microanalysis in the study of phase transformations, Martin Strangwood, (Birmingham University)
Microanalysis of ceramics, Richard White, (Ceram)

Wednesday March 31st, 2004 - Loughborough University.
Theme of the meeting related to forensics investigations.

Microanalysis in forensics (Forensic Microscopy - a close look at trace evidence), Alison Crossley (Materials, Oxford)
Review of Round Robin Results, Janet Ivers (Alstom)

Wednesday October 15th, 2003 - Alstom Technology Centre, Rugby.

Tour of Alstom Technology Centre Laboratories
Specimen preparation - Paul Brown (Nottingham University)
X-Ray Corrections and accuracy for EDX microanalysis - Peter Statham
Chemical Standards - Mike Matthews

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