



# MATERIALS CONGRESS 2004

30 March - 1 April 2004, London, UK

## Neutron Scattering from Materials

Thursday 1 April

**Chairman** Keith Ross, University of Salford

- 10.30 \* **Probing the structure and dynamics of technologically relevant materials on the nanoscale** Helmut Schober Institute Laue Langevin, Grenoble, France
- 11.00 **Ferromagnetic carbon** S.M. Bennington<sup>11</sup> Rutherford Appleton Laboratory, Didcot, Oxfordshire
- 11.15 **Spatial distributions of mobile species in electroactive films** A R Hillman<sup>a</sup> University of Leicester, Department of Chemistry, Leicester
- 11.30 **The structural properties of superionic conductors** S Hull The ISIS Facility, Rutherford Appleton Laboratory, Chilton, Didcot, Oxfordshire, U.K.
- 11.45 **High temperature neutron reflection studies of liquid metal/ceramic interfaces** B Derby<sup>11</sup> Manchester Materials Science Centre, UMIST and the University of Manchester Manchester, UK
- 12.00 **Neutron diffraction on deuterium adsorbed on single walled carbon nanotubes** A Giannasi University of Florence-CNR, Florence, Italy
- 12.15 **Inelastic neutron scattering from molecular hydrogen on surfaces** P A Georgiev, Institute for Materials Research, University of Salford
- 12.30 LUNCH
- 15.00 \* **New opportunities for non-destructive stress mapping: from crystals to crankshafts** Prof. L. Edwards, Dept of Materials Engineering, Open University, Milton Keynes
- 15.30 **Neutron diffraction stress analysis of two-phase structure under applied load on an example of austenitic stainless steel with plastically induced martensite phase** Yu V Taran<sup>11</sup> FLNP, Joint Institute for Nuclear Research, Dubna, Russia
- 15.45 **Observation of twinning in  $YBa_2Cu_3O_{6+x}$   $0 < x < 1$  at high temperatures by line broadening analysis of neutron diffraction data** B. Khoshnevisan, University of Kashan, Iran
- 16.00 **Preferred co-ordinations in oxychloride glasses** D Holland, University of Warwick, UK
- 16.15 **The FaME38 Project at the ILL** A. Steuwer, UMIST/Manchester
- 16.30 To be confirmed
- 16.45 To be confirmed

\* *Keynote lecture*

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