

UK Magnetics Society

one day seminar

Co-sponsored by the UKRI Chapter of the IEEE Magnetics Society

Nanoscale Magnetics: Applications and Opportunities

Wednesday, 14 September 2005

at University of Manchester

Magnetic nanotechnology is with us already with nanophase magnetic materials and in recording systems and promises new opportunities for the future with broad ranging applications from biomedical, through data storage to magnetic logic circuits.

This seminar covers the current status of the different strands within nanomagnetism including the current status of technologically important hard and soft nanophase materials through to the medical aspects of nanomagnetism and more speculative applications.

PROGRAMME

from 1000 REGISTRATION/COFFEE

Chairman: Dr Ernie Hill, University of Manchester, Dept of Computer Science

1030 WELCOME/INTRODUCTION

1035 **Magnetisation Behaviour of Magnetic Nanostructures for Future Device Applications**, Dr Del Atkinson, University of Durham, Nanoscale Science and Technology Group, Dept of Physics

1105 **Novel Nanoscale Magnetic Logic Structures and Devices**, Dr Dan Allwood, University of Sheffield, Dept of Engineering Materials

1135 **Interactions in Electrodeposited Superparamagnetic Nanoparticle Arrays**, Dr Walther Schwarzacher, University of Bristol, H H Wills Physics Laboratory

1205 **Thin Film Porous Alumina Templates for Nanomaterials Research**, Dr Robert Pollard, Queens University of Belfast, Dept of Pure and Applied Physics

1235 LUNCH

Chairman: Dr Del Atkinson, University of Durham, Dept of Physics

1400 **Nanomagnetism - Nascent or Fully Formed: The Case of Hard and Soft Nanocomposite Magnets**, Prof Mike Gibbs, University of Sheffield, Sheffield Centre for Advanced Magnetic Materials & Devices

1430 **Biomedical Applications of Nanomagnets**, Prof Quentin Pankhurst, University College London, London Centre for Nanotechnology

1500 **Nanostructures from Self-Assembled Templates**, Prof Peter de Groot, University of Southampton, School of Physics and Astronomy

1530 **Characterisation of Nanomagnets using Transmission Electron Microscopy**, Dr Stephen McVitie, University of Glasgow, Dept of Physics & Astronomy

1600 END/TEA

PLEASE COMPLETE AND RETURN TO:

Margaret Swadling, The UK Magnetics Society, Grove Business Centre, Grove Technology Park, Grove, Wantage, Oxon OX12 9FA

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I wish to attend the co-sponsored UK Magnetics Society/UKRI Chapter of the IEEE Magnetics Society one-day seminar *Nanoscale Magnetics: Applications and Opportunities*, Wednesday, 14 September 2005, at University of Manchester, and enclose remittance to cover technical sessions, seminar documentation, refreshments and lunch (cheques made payable to **The UK Magnetics Society** and drawn on a UK bank). Payment may also be made by bank transfer: The UK Magnetics Society, Barclays Bank plc, 17 Market Place, Wantage, Oxon OX12 8AG, UK, Acct No 50893293, Sort Code No: 20-90-91; *please add £10 to cover bank charges if paying by bank transfer from overseas.*

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