

UK Magnetism Society

Grove Business Centre Grove Technology Park Wantage Oxfordshire OX12 9FA UK
tel: +44 (0) 1235 770652 fax: +44 (0) 1235 772295 email: jward@ukmagsoc.co.uk
www.ukmagsoc.org

one day seminar

Advanced Functional Materials

Thursday, 19 March 2009

at

National Physical Laboratory, Teddington

Continued advances in deposition, fabrication and lithography techniques make it possible to produce novel material structures that have no natural equivalent. These artificial structures exhibit novel properties that offer exciting opportunities in areas such as sensors, high frequency electronics, spintronics and quantum computing. The complex nature of the structures requires a multiphysics approach to the measurement of their properties. This seminar will bring together experts from a number of disciplines to present the latest developments in their respective fields. Talks that cover aspects of the magnetic, dielectric and piezoelectric behaviour as well as coupled behaviour will be given. Visits to NPL laboratories involved with developing measurement methods for these unique properties will be available.

PROGRAMME

Chairman: Dr Michael Hall, National Physical Laboratory
from 0900 REGISTRATION/COFFEE

Chairman: Professor Genhua Pan, Faculty of Technology,
University of Plymouth

0930 **WELCOME/INTRODUCTION**

0940 ***Room Temperature Proximity Effect Across the Fe/GaMnAs Interface***
Dr Francesco Maccherozzi, Laboratorio Nazionale TASC, Italy

1010 ***Functional Magneto-Plasmonics and Device Possibilities***
Dr Raphael Matelon, University of Exeter

1040 Break

1050 ***Epitaxial Magnetic Tunnel Junctions Grown by MBE***
Dr Roger Ward, University of Oxford

1120 ***Magnetic Tunnel Junctions with MgO Barrier***
Professor Genhua Pan, Faculty of Technology, University of Plymouth

1150 ***MATERA+ Call and Nature of UK Support***
Dr Robert Quarshie, KTN Director

1220 LUNCH/LAB TOURS

1340 ***Turns, Traps and Nervous Responses: Magnetic Nanowire Technology***
Professor Mike Gibbs, University of Sheffield

1410 ***Exceptional Properties of Some New Magnetostrictive and Magnetocaloric Materials***
Dr Eugene Melikhov, Wolfson Centre for Magnetism, Cardiff University

1440 TEA/COFFEE

1500 ***Measurement and Applications of Multiferroic Materials***
Dr Markys Cain, National Physical Laboratory

1530 ***One-Cent-Room Temperature Magnetoelectric Magnetic Field Sensor***
Dr Neil Mathur, University of Cambridge

1600 ***Title TBA***
Dr Anna-Karin Axelsson, Imperial College London

1630 END

PLEASE COMPLETE AND RETURN TO:

Jane Ward, UK Magnetics Society, Grove Business Centre, Grove Technology Park, Wantage, Oxon OX12 9FA
tel: +44 (0)1235 770652 fax: +44 (0)1235 772295 email: jward@ukmagsoc.co.uk www.ukmagsoc.org

I wish to attend the UK Magnetics Society one-day seminar **Advanced Functional Materials**, to be held on Thursday, 19 March 2009 at the National Physical Laboratory 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: UK Magnetics Society, Barclays Bank plc, 17 Market Place, Wantage, Oxon OX12 8AG, UK, Acct No 50893293, Sort Code No: 20-90-91, IBAN:GB98 BARC 2090 9150 8932 93, SWIFTBIC: BARCGB22. **Please add £10 to cover bank charges if paying by bank transfer from overseas.**

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<input type="checkbox"/> I wish to make a poster presentation			

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