

UK Magnetics Society

one day seminar

Magnetic Sensors and Actuators

Wednesday, 13 September 2006

at the Centre for Advanced Magnetic Materials and Devices, University of Sheffield

Magnetic sensors and actuators are all pervasive in modern society and this seminar will provide exposure to the latest state of the art developments and practical applications of existing devices. It will give both the industrial and academic perspective on current device technologies and future challenges.

A poster session will be held during the lunch period.

PROGRAMME

from 0900 REGISTRATION/COFFEE

Chairman: Mike Gibbs, Centre for Advanced Magnetic Materials and Devices, University of Sheffield

1010 WELCOME/INTRODUCTION

1015 *Magnetic Sensors for Automotive Applications*, Kim Smith, Sensing and Control, TRW Conekt

1045 *Domain Wall Based Sensor for Automotive Applications*, Roland Mattheis, Institute for Physical High Technology (IPHT), Jena, Germany

1115 *Magnetoimpedance Effect in Multilayers and Application to High Performance Sensing*, Larissa Panina, School of Computing, Communications and Electronics, University of Plymouth

1145 *A Low Noise Second Harmonic Magnetoresistive Sensor*, Ernie Hill, Dept of Computer Science, University of Manchester

1215 LUNCH

POSTER SESSION

Chairman: Nicola Morley, Centre for Advanced Magnetic Materials and Devices, University of Sheffield

1345 *Theory and Practice of Magnetic Gradiometry in Archaeology*, Geoff Bartington, Bartington Instruments Ltd

1415 *Mass Measurement Using Magnetic MEMS*, Mike Gibbs, Julian Dean, Thomas Schrefl, Centre for Advanced Magnetic Materials and Devices, University of Sheffield

1445 TEA

1500 *Amorphous Magnetic Materials for Sensing Applications*, Firutza Borza, Wolfson Centre for Magnetism, Cardiff University

1530 *Application of Audio Magnetostrictive Actuators*, Kamlesh Prajapati, FeONIC plc

1600 END

The UK Magnetics Society accepts no responsibility or liability in any way whatsoever for any statements made or opinions expressed during this event

PLEASE COMPLETE AND RETURN TO:

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I wish to attend the UK Magnetics Society one-day seminar *Magnetic Sensors and Actuators*, Wednesday, 13 September 2006, at the Centre for Advanced Magnetic Materials and Devices, University of Sheffield, 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; please add £10 to cover bank charges if paying by bank transfer from overseas.

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I wish to participate in the poster session; please send details

Please register by 6 September 2006 if possible

Surname.....

First name.....Title (Dr/Mr/Mrs etc).....

Organisation.....

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Magnetic Sensors
and Actuators**

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at

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Materials and Devices
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