

UK Magnetics Society

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www.ukmagsoc.org

one day seminar

Novel Magnetic Sensors

Thursday, 12 January 2012

at

National Physical Laboratory, Teddington, Middlesex

Industry's drive towards enhancing the capabilities of magnetic sensors presents a constant challenge to the underpinning researcher, which must therefore achieve an equivalent step change in performance. Furthermore, the testing, characterisation and calibration of such sensors must account for the ever-expanding range of technologies, applications and environments that sensors are required to reliably operate within. In recognition of this and to celebrate the beginning of the EC (EMRP) funded project entitled "Metrology for Advanced Industrial Magnetics", this one-day seminar will discuss current and future developments in magnetic sensor technology and the corresponding evolution of traceable measurements and validation tools required.

P R O G R A M M E

Chairman: Stuart Harmon, National Physical Laboratory

Chairman: Dr Hans Schumacher, Physikalisch-Technische Bundesanstalt, Germany

from 0900 REGISTRATION/COFFEE

1000 ***Welcome/Introduction***

1015 ***The MetMags Project: European Metrology for Magnetic Sensors***

Dr Hans Schumacher, Physikalisch-Technische Bundesanstalt, Germany

1045 ***Microwave Damping Measurement Methods for the Development of TMR and Spin Torque Sensors***

Massimo Pasquale, INRiM, Italy

1115 ***Metrology Based on the Spin-Dependent Hall Effect in Semi-Conductors***

Dr Elisa De Ranieri, Hitachi Cambridge Laboratory

1145 ***Towards the Numerical Modelling of Nanostructured Magnetic Field Sensors***

Alessandra Manzin, INRiM, Italy

1215 LUNCH

1345 ***So, You Need Reliable Magnetic Sensors You Can Use With Confidence? How the Facilities and Field Standards at NPL can help***

Dr Michael Hall, National Physical Laboratory

1415 ***Developing a Magnetic Gradiometer for Space Applications***

Dr Doug Griffin, Rutherford Appleton Laboratory

1445 ***Challenges in Designing Customised Fluxgate Magnetic Field Sensors***

Oliver Masségia, Bartington Instruments Ltd

1515 ***Panel Discussion***

This informal Q & A session will give researchers, manufacturers and industrial end users an opportunity to discuss the scope of this and future EMRP projects with members of the Metrology for Advanced Industrial Magnetics group

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 **Novel Magnetic Sensors**, to be held on Thursday, 12 January 2012 at the National Physical Laboratory, Teddington 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"/> As above [student] | £ 20.00 | £ 4.00 | £ 24.00 |
| <input type="checkbox"/> Non-members | £175.00 | £35.00 | £ 210.00 |
| <input type="checkbox"/> Non-member students | £ 40.00 | £ 8.00 | £ 48.00 |

* 3 delegates get 50% off the third person (cheapest rate applies). For bookings of more than 3 people, please contact Jane Ward

PLEASE NOTE REFUNDS CANNOT BE MADE FOR CANCELLATIONS RECEIVED 72 HOURS PRIOR TO THE SEMINAR

PLEASE REGISTER BY 3 JANUARY IF POSSIBLE

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| Title (Dr/Mr/Mrsetc) | | Organisation..... | |
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