

UK Magnetics Society

one day seminar

Developments in Magnetic Materials

Tuesday, 25 April 2006

at QinetiQ Farnborough, Hants

An optimised magnetic system (sensor, actuator, motor or generator) can only be constructed if the designer has a full understanding of the capabilities and limitations of the materials available for use in its construction.

Evolutionary improvements in existing materials are constantly being made, and new materials and composites constructed that provide revolutionary changes in the approach to electromagnetic design. This seminar focuses on recent developments in magnetic materials, providing real world examples of the design benefits they provide over traditional approaches.

PROGRAMME

0930 AGM [members only]

from 0900 REGISTRATION/COFFEE

Chairman: Stuart Eaton, QinetiQ Farnborough

1010 WELCOME/INTRODUCTION

1015 **Development of SMC Materials for Motor Applications**, Lars Hultman, Hoganäs AB, Sweden

1045 **The Magnetic and Operational Characteristics of Circumferential MFL Tools**, Dr Richard Ireland, QinetiQ Farnborough

1115 **Bulk High Temperature Superconductors for Permanent Magnet Applications**, Prof David Cardwell, IRC in Superconductivity, University of Cambridge

1145 **Novel Flat Panel Magnetostrictive Loudspeakers**, Dr Turgut Meydan, Wolfson Centre for Magnetism, Cardiff Univ

1215 **Ferromagnetic Wires Structured Materials with Tunable Scattering Spectra at Microwaves**, Dr Larissa Panina, Dr Dmitriy Makhnovskiy, School of Computing, Communications & Electronics, Univ of Plymouth

1245 LUNCH

Chairman: Dr Paul Ling, Romarsh Ltd

1345 **Impact of PWM and Matrix Converters on Performance of Electrical Steel**, Prof Tony Moses, Wolfson Centre for Magnetism, Cardiff University

1415 **Developments in Fibre-Reinforced Soft Magnetic Metal-Matrix Composite Materials**, Stuart Godfrey, QinetiQ Farnborough

1445 **Thermally-Stable Insulating Coatings for EM Machine Components**, Dr Simon Hodgson, Loughborough Univ

1515 TEA

1530 **Electromagnetic Simulations Including Stress and Temperature-Dependent Material Properties**, Dr Alex Michaelides, Vector Fields Ltd

1600 **High Temperature Electrical Machines and Actuators - Challenges for Hard and Soft Magnetic Materials**, Dr Geraint Jewell, Dr David Powell, Dr Sarah Gibson, University of Sheffield, Dept of Elec & Elec Engineering

1630 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:

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

tel: +44 (0)1235 770652 fax: +44 (0)1235 772295

email: mswadling@ukmagsoc.co.uk

www.ukmagsoc.org

I wish to attend The UK Magnetics Society one-day seminar **Developments in Magnetic Materials**, Tuesday, 25 April 2006, at QinetiQ Farnborough, Hants, 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.

If you wish to be invoiced, please give Purchase Order number, if appropriate. PO Number.....

If you wish to pay by VISA/Mastercard/Delta etc, please complete all sections of the form overleaf.

	Fee	VAT	TOTAL
<input type="checkbox"/> UKMAG member organisation	£69.00	£12.08	£81.08
<input type="checkbox"/> As above [student]	£20.43	£3.57	£24.00
<input type="checkbox"/> Non-member	£146.00	£25.55	£171.55
<input type="checkbox"/> Non-member student	£34.00	£5.95	£39.95

Please register by 14 April 2006 if possible

Surname.....

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

Organisation.....

Address.....

.....

Tel.....

Fax.....

Email.....

Web.....



For payment by
VISA/Mastercard/Delta/Electron/
JCB/Solo/Maestro/Switch/AMEX:

*Please complete in BLOCK CAPITALS
and return to:*

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

Card Number:	<input type="text"/>
Start Date:	<input type="text"/>
Expiry Date:	<input type="text"/>
Name of Cardholder:	<input type="text"/>
Mailing address of Cardholder:	<input type="text"/>
Signature of Cardholder:	<input type="text"/>

**UK Magnetics
Society**

One-day seminar

**Developments in
Magnetic Materials**

Tuesday, 25 April 2006

at

QinetiQ Farnborough, Hants