

UK Magnetics 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 Electric Machines through Materials

Wednesday, 15 October 2008

at

TRW Conekt, Solihull

Launched in 2005 by PowdermatriX, the Advanced Electric Machines through Materials project responded to a call by the DTI (now the Technology Strategy Board) Technology Programme to improve fuel efficiency and to reduce CO2 emissions. This 3 year, £2.4M project involved 16 partners from the UK Magnetics Industry to develop improved magnetic materials, processing technologies, measurement facilities and computer modelling capability for electric machines. The project focused on technologies to realise a clear demand for more efficient power systems, coming particularly from the aerospace and automotive industries.

A principal deliverable has been to optimise currently available materials and to extend further their utilisation in machine technology. The project has brought about excellent cooperation between the specialist UK magnetic measurement centres to improve significantly measurement and calibration procedures. Additionally, new links have been developed between state-of-the-art industry-standard magnetic modelling software systems, providing far better analytical and predictive methods for the design of electrical machines.

Development work has also improved knowledge and understanding of the processing and fundamental properties of hard and soft magnetic materials and established the processing parameters for improved wire insulating materials, which will withstand higher operating temperatures.

P R O G R A M M E

Chairman: Dr Hugh Stanbury, PowdermatriX

Chairman: Dr Alex Michaelides, Vector Fields

from 1000 REGISTRATION/COFFEE

1100 **WELCOME/INTRODUCTION**

Dr Hugh Stanbury, PowdermatriX

1415 ***Corrosion Effects on Bonded Magnets in an Automotive Environment***

Dr Chris Riley, Magnet Applications Limited

1115 ***Materials for Electric Machines: Making the Difference on Products, Systems and Applications***

Philip McGoldrick, Goodrich Power Systems

1445 ***High-Temperature, Flexible Nanocomposite Electrically Insulating Coatings***

Professor Simon Hodgson, University of Teeside

1130 ***Meeting the Material Challenges for the More Electric Engine***

Dr Al Lambourne, Rolls Royce plc

1515 TEA/COFFEE

1200 ***Measurement of the Properties of Magnetic Materials - Underpinning the Project Needs and Enhancing the UK Capability***

Dr Michael Hall, National Physical Laboratory

1545 ***Soft Magnetic Materials***
Dr Nicholas Adkins, Ceram

1230 ***Advanced Multi-Physics Modelling of Electric Machines***

Dr Alex Michaelides, Vector Fields

1615 ***Drag Torque vs Material Properties in TRW Steering Motors***
Harvey Smith, TRW Conekt

1630 END

1300 LUNCH/POSTERS

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 Electric Machines through Materials**, to be held on Wednesday, 15 October 2008, at TRW Conekt, Solihull 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.**

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 below.

	FEE	VAT	TOTAL
<input type="checkbox"/> UKMAG Members	£ 79.00	£13.82	£ 92.82
<input type="checkbox"/> As above [student]	£ 23.50	£ 4.11	£ 27.61
<input type="checkbox"/> Non-members	£168.00	£29.40	£197.40
<input type="checkbox"/> Non-member students	£ 39.00	£ 6.82	£ 45.82
<input type="checkbox"/> I wish to make a poster presentation			

PLEASE REGISTER BY 6 OCTOBER IF POSSIBLE

Surname.....	First name.....
Title (Dr/Mr/Mrsetc)	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:

UK Magnetics Society
Grove Business Centre
Grove Technology Park
Wantage, Oxon OX12 9FA
tel: +44 (0)1235 770652, fax: +44 (0)1235772295
email: jward@ukmagsoc.co.uk

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"/>

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