

# UK Magnetics Society

Grove Business Centre Grove Technology Park Wantage Oxfordshire OX12 9FA UK  
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www.ukmagsoc.org

one day seminar

## ***Magnetics, Energy Efficiency and the Environment***

**Thursday, 6 September 2007**

at

**Wolfson Centre for Magnetics, Cardiff University**

A growing requirement both socially and legislatively for environmentally friendly electromagnetic devices, coupled with the drive for ever-increasing levels of energy efficiency, is encouraging higher levels of engineering design innovation.

Increased power density derived from permanent magnets, coupled with advances in power electronics, have led to a rise in the use of new magnetic technologies in many applications from fields as diverse as hybrid vehicle technology to electrical consumer products. This increased use of magnetic materials is not without its drawbacks, with the supply and disposal of these materials requiring their own engineering solutions.

### PROGRAMME

Chairman: Dr Jeremy Hall, Wolfson Centre for Magnetics, Cardiff University

from 0900 REGISTRATION/COFFEE

1000 WELCOME/INTRODUCTION

1015 ***Dedicating Electrical Engineering to Energy Efficiency: Stake, Method, Eco-Design, Success Stories, Long Term Planning***, Dr Vincent Mazauric, Schneider Electric, Grenoble, France

1045 ***Amorphous Magnetic Metal Based Devices and Energy Efficiency***, Dr Ryusuke Hasegawa, Metglas Inc, USA

1115 ***An Overview on Passive Magnetic Shielding of Power Systems: Modelling and Experiments, from Solid Laminations to Grid Shields***, Dr Mauro Zucca, INRIM, Italy

1145 ***Electrical Steels, Energy Efficiency and the Environment***, Keith Jenkins, Cogent Power Limited

1215 LUNCH/POSTERS

Chairman: Dr Chris Maddison, Cummins Generator Technologies

1345 ***Electrical Steels for High Efficiency Electrical Machines - Some Remarks***, Prof Juergen Schneider, Department of Metallurgy and Material Science, University of Gent, Belgium

1415 ***Steps towards Lightweight Electrical Machines for Direct-drive Renewable Energy Converters***, Dr Alasdair McDonald, School of Engineering and Electronics, University of Edinburgh

1445 ***Advanced Electric Machines through Materials - A Review of the DTI Magnetics Project***, Dr Hugh Stanbury, PowdermatriX

1515 ***Some Interesting Observations of Loss and Magnetism in Soft Magnetic Materials under Non-Standard Conditions***, Dr Stanislaw Zurek, Wolfson Centre for Magnetics, Cardiff University

1545 TEA/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 ***Magnetics, Energy Efficiency and the Environment***, to be held on Thursday, 6 September 2007, at the Wolfson Centre for Magnetics, Cardiff University, 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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If you wish to pay by VISA/Mastercard/Delta etc, please complete all sections of the form below.

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

**PLEASE REGISTER BY 29 AUGUST 2007 IF POSSIBLE**

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