

UK Magnetics Society

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

one day seminar

Cutting Costs by Optimised Use of Materials

Tuesday, 28 April 2009

at

TRW Conekt, Solihull

Buyers and suppliers are facing the twin challenges of the dramatically increased price of key materials for electromagnetic devices (such as Steel, Copper, Cobalt and Rare-Earth metals) and a global economic crisis. Costs can be saved by sourcing materials which have only the minimum properties and quality control required, and selecting the suppliers best matched to providing them. This can be achieved by:

- Analysing device designs to identify minimum material requirements
- Measuring the properties of materials which are fundamental to a product's performance (rather than only "standard" measurements)
- Optimising device designs to minimise use of expensive materials
- Assess suppliers' ability to minimise cost of their materials by reducing the content of expensive elements, and avoiding expensive processes, whilst guaranteeing properties which are just good enough
- Developing quality control methods which make it safe to use minimum cost materials.

This seminar aims to bring together buyers, suppliers and designers to show how the above approach can succeed.

PROGRAMME

Chairman: Dr Chris Maddison, Cummins Generator Technologies

Chairman: Graham Kemp, TRW Conekt

from 0900 REGISTRATION/COFFEE

1230 **SUPPLIER EXHIBITIONS**
(+ TRW Laboratory Visits)

1000 **WELCOME/INTRODUCTION**

1345 ***Cost Effective Motor Design using Bonded NdFeB Magnets***

1015 ***Design Considerations for the Efficient Use of Magnetic Components***

Dr Mark Harradine, Mechatronics Limited

Dr Nimit Sheth, Magnequench Neo Powders Pte Limited, Singapore

1045 ***Enhancing Cost Performance of NdFeB Magnets through the Grain Boundary Diffusion Process***

Bob Buettner, Shin-Etsu Magnetics Inc, Germany

1415 ***Optimised Material Selection and Design for Laminations***

Dr Gwynne Johnston, Director of Technology, Tempel Steel Company

1115 ***Optimised Material Selection by Integrating Magnetic Materials and Design Analysis Expertise***

Harvey Smith and Graham Kemp, TRW Conekt

1445 TEA/COFFEE

1515 ***Rare Earth Permanent Magnet Raw Materials Supply***

David Kennedy, Great Western Minerals Group

1145 ***Improved Cost and Magnetic Function in Components used in Automotive Actuators***

John Taylor, SG Magnets Limited

1545 ***Soft Magnetic Composite in Optimised Machine Design***

Dr Glynn Atkinson, University of Newcastle-upon-Tyne, School of Elec, Elec & Comp Eng

1215 LUNCH/EXHIBITION

1615 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 ***Cutting Costs by Optimised Use of Materials***, to be held on Tuesday, 28 April 2009 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	£11.85	£ 90.85
<input type="checkbox"/> As above [student]	£ 23.50	£ 3.52	£ 27.02
<input type="checkbox"/> Non-members	£168.00	£25.20	£193.20
<input type="checkbox"/> Non-member students	£ 39.00	£ 5.85	£ 44.85
<input type="checkbox"/> I should like space for a table-top exhibition			

PLEASE REGISTER BY 17 APRIL IF POSSIBLE

Surname.....		First name.....	
Title (Dr/Mr/Mrsetc)		Organisation.....	
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The UK Magnetics Society accepts no responsibility or liability in any way whatsoever for any statements made or opinions expressed during this event