

UK Magnetics Society

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one day seminar

Permanent Magnets in Extreme Environments

Wednesday, 19 November 2008

at

University of Birmingham,

Department of Metallurgy and Materials

The increasing demand for permanent magnet based electrical systems has provided materials manufacturers with new challenges to combat the hostile environments in which many of these systems operate. Extreme temperatures and aggressive environmental operating conditions have meant that permanent magnet materials and supporting hardware require higher levels of corrosion protection and temperature stability while maintaining acceptable operating performance. This seminar describes some of these challenges and the developments in materials to meet them.

P R O G R A M M E

Chairman: Dr Andy Williams, University of Birmingham, Dept of Metallurgy and Materials

Chairman: Dr Chris Riley, Magnet Applications Limited

from 0900 REGISTRATION/COFFEE

1000 **WELCOME/INTRODUCTION**

1015 ***High End Corrosion Protective Coatings for Rare-Earth Permanent Magnets***

Dr Lothar Zapf, Vacuumschmelze GmbH, Germany

1045 ***Enabling Melt Spun NdFeB Magnets in Under the Hood Applications***

Dr David Brown, Magnequench Technology Centre, Singapore

1115 ***Key Metals in Extending Environmental Tolerance of Rare-Earth Magnets***

David Kennedy, Less Common Metals Ltd

1145 ***The Application of Permanent Magnets in Oilfield Drilling Tools***

Nigel Hale, Schlumberger - Stonehouse Product Centre

1215 LUNCH/POSTERS

1345 ***The Behaviour of Rare Earth Magnets in Reducing and Oxidising Atmospheres***

Prof Rex Harris, University of Birmingham, Dept of Metallurgy and Materials

1415 ***Linear Direct-Drive Permanent Magnet Generators for Ocean Wave Energy Conversion***

Dr Henk Polinder, TU Delft University, The Netherlands

1445 TEA/COFFEE

1515 ***Design Consideration for the MICE Target Actuator on the ISIS Accelerator***

Dr Chris Booth, Department of Physics and Astronomy, University of Sheffield

1545 ***Samarium Cobalt Magnets in Extreme Temperature, Radiation and Space Environments***

Richard Frolish, Electron Energy Corporation

1615 END

PLEASE COMPLETE AND RETURN TO:

Jane Ward, UK Magnetics Society, Grove Business Centre, Grove Technology Park, Wantage, Oxon OX12 9FA
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I wish to attend the UK Magnetics Society one-day seminar ***Permanent Magnets in Extreme Environments***, to be held on Wednesday, 19 November 2008, at University of Birmingham 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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