

UK Magnetics Society

one day seminar

Permanent Magnets: Current Materials and Future Exploitation

Wednesday, 8 November 2006

at the Foresight Centre, University of Liverpool

This seminar will review the current commercial materials ranging from Hard Ferrites through Alnico and sintered Rare Earth Magnets to Bonded Magnets. The relative merits of each type of permanent magnet should emerge with an understanding of the economic and technical importance of these materials. The orientation of new developments and the key applications in new vehicle technology will provide an insight into future exploitation of permanent magnets.

The intended audience will be: **magnet producers** [gauging the relative market potential and application of various materials]; **academics** [potential for research in fields of materials development and permanent magnet applications]; **magnet users and equipment designers** [forming judgments on potential materials applications on basis of cost and performance, fundamental materials properties and influence of temperature and corrosion, magnet cost against system cost]; **alloy producers and contributors to the raw materials supply chain** [understanding the application]; **business forecasting, seeking answers to potential growth and geographic concentrations of production, design and application.**

PROGRAMME

Chairman: Rex Harris, University of Birmingham, Department of Metallurgy and Materials, School of Engineering

from 0900 REGISTRATION/COFFEE

1000 **CHAIRMAN'S INTRODUCTION**

Extended introduction providing a broad view of the current situation in permanent magnets and how these materials developed to this point

1015 **Hard Ferrite Magnets in Automotive Motors**, Serge Brassard, Ugimag, France

1045 **Alnico and Other Shape Anisotropy Alloys**, Ewan Goodier, Arnold Swift Levick Magnets

1115 **SmCo: Rare Earth Magnets for Challenging Environments**, Gerhard Martinek, Precision Magnetics, Switzerland

1145 **Bonded Magnets: How do we sell to the Chinese?**, James Bell, Magnetic Applications Inc, USA

1215 LUNCH

1315 **Developments in Melt Spun NdFeB Powders**, David Miller, Magnequench Technology Center, Singapore

1345 **High Performance NdFeB Radially Oriented Ring Magnet**, Takashi Kamihara, Daido Electronics Co Ltd, Japan

1415 **Industrial Sintered Rare Earth Permanent Magnets and their Applications**, Matthias Katter, VAC, Germany

1445 TEA

1500 **Hard Magnets for MEMS**, Nora Dempsey, CNRS Grenoble, France

1530 **Automotive and Bulk Applications, Economic Impact and Future of PMS**, John West, Consulting Engineer

1600 **Current and Future Trends in Permanent Magnets Research and Development**, Andy Williams, University of Birmingham, Dept of Metallurgy and Materials

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:

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I wish to attend the UK Magnetics Society one-day seminar **Permanent Magnets: Current Materials and Future Exploitation**, Wednesday, 8 November 2006, at the Foresight Centre, University of Liverpool, 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; please add £10 to cover bank charges if paying by bank transfer from overseas.

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Society**

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University of Liverpool**