

UK Magnetics Society

one day seminar

Novel Applications for Permanent Magnets

Wednesday, 15 September 2004 at University of Sheffield

Although often considered a mature technology, permanent magnets are still continually evolving. The confluence of these material improvements and the improved tools used to design magnetic systems, along with advances in power electronics and control systems, have opened up the doors to new and exciting applications for permanent magnets. Therefore, new markets for material manufacturers and the entire magnetics supply chain are still emerging.

This seminar will review recent developments in applications employing permanent magnets in the automotive, aerospace, marine and industrial sectors, in order to highlight current technological advances and increase awareness of the ever-expanding markets, including application case studies on electrical machines, sensors and actuators, and static field systems.

PROGRAMME

from 0930 REGISTRATION/COFFEE

Chairman: Richard Clark, University of Sheffield

1025 CHAIRMAN'S INTRODUCTION

1030 *New Materials + New Processes = New Products*, James Bell, Magnet Applications Inc, USA

1100 *A Linear Permanent Magnet Generator for Free Piston Energy Converter*, Jiabin Wang, David Howe, University of Sheffield, Dept of Elec & Elec Engineering

1130 *Development of Fibre-Reinforced Permanent Magnet Rotors for High Speed Electromagnetic Machines*, Andrew Loveridge, Qinetiq Ltd, Farnborough

1200 *Self Regulating, PM Axial Flux Flywheel Generator for the Independent Control of Metal Halide Lamps*, Nigel Jakeman, Newage AVK-SEG

1230 LUNCH

Chairman: Mark Harradine, Dexter Magnetic Technologies Europe Ltd

1400 *New Automotive Applications for PM Motors*, John West, Consultant

1430 *Fault Tolerant Machines for the More Electric Aircraft*, John Cullen, George Antonopoulos, Rolls-Royce plc

1500 *Structurally Integrated PM Brushless Motors for Underwater Vehicle Thrusters*, Shu Hau Lai, Univ of Southampton, School of Engineering Science

1530 *Petrochemical Applications for Permanent Magnets*, Tim Price, Dexter Magnetic Technologies Inc, USA

1600 END
TEA

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 *Novel Applications for Permanent Magnets*, Wednesday, 15 September 2004, at University of Sheffield, 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: The UK Magnetics Society, Barclays Bank plc, 17 Market Place, Wantage, Oxon OX12 8AG, UK, Account No 50893293, Sort Code No: 20-90-91; *please add on £10 to cover bank charges if paying by bank transfer from overseas.*

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