UK Magnetics Society

one day seminar

Advances in Electrical Machines and Drives

Tuesday, 28 February 2006

at University of Sheffield

Department of Electronic and Electrical Engineering

This seminar offers presentations from both academic institutions and commercial organisations on recent advances in electrical machines and their power electronic controllers for applications in a wide range of market sectors. With continued developments on advanced magnetic materials, there has been a drive to increase performance para-meters such as power density and efficiency in electrical machines. New topologies are also being developed to achieve desired performance targets as well as effect necessary cost improvements. The improvement in, and matching of, the power electronic converters and control circuits to drive these machines is of equal importance and has seen significant development that will be reviewed in the seminar.

PROGRAMME

from 1000 REGISTRATION/COFFEE

Chairman: Dr Richard Clark, University of Sheffield, Dept of Electronic & Electrical Engineering

1030 WELCOME/INTRODUCTION

1035 ***Electric Torque Boost System for Down-Sized ICE Vehicles,*** Dr Jiabin Wang, University of Sheffield, Dept of Electronic & Electrical Engineering

1105 ***Advances in Machine Topologies and Construction Methods,*** Prof Alan Jack, University of Newcastle-upon-Tyne, School of Elec, Elec & Computer Engineering

1135 ***Low Cost, Energy Efficient Linear Drives for Refrigeration Compressors***, Dr Chris Riley, Magnet Applications Ltd

1205 ***Switched Reluctance Integrated Turbo-generator Gas Energy Recovery System,*** Paul Sykes, SR Drives Ltd

1235 LUNCH

There will be an opportunity to visit the Electrical Machines and Drives Group Research Laboratories

Chairman: Dr Alex Michaelides, Vector Fields Ltd

1400 ***Direct Power Converters for AC Drives***, Prof Jon Clare and Dr Patrick Wheeler, University of Nottingham, Dept of Electrical & Electronic Engineering

1430 ***Torque Control of an Integrated Permanent Magnet Machine for Mild Hybrid Vehicle Applications,*** Dr Abdeslam Mebarki, Newage AVKSEG

1500 ***Advances in Permanent Magnet and Reluctance Motor Drives***, Prof Charles Pollock, Tecnelec Ltd

1530 ***Beyond 2T - A Search for High Power Density,*** Dr Malcolm McCulloch, University of Oxford, Dept of Engineering Science

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 ***Advances in Electrical Machines and Drives,*** Tuesday, 28 February 2006, 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, 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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	Fee	VAT	TOTAL
☐ UKMAG member organisation	£69.00	£12.08	£81.08
☐ As above [student]	£20.43	£3.57	£24.00
☐ Non-member	£146.00	£25.55	£171.55
☐ Non-member student	£34.00	£5.95	£39.95

Please register by 20 February 2006 if possible

Surname.....

First name.....**Title (Dr/Mr/Mrs etc)**.....

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