

UK Magnetics Society

Grove Business Centre Grove Technology Park Wantage Oxfordshire OX12 9FA UK
tel: +44 (0) 1235 770652 fax: +44 (0) 1235 772295 email: mswadling@ukmagsoc.co.uk
www.ukmagsoc.org

one day seminar

Modelling and Design of Electromagnetic Actuators and Machines

Thursday, 18 October 2007

at

University of Newcastle upon Tyne

Co-sponsored by IET (Institute of Engineering and Technology)

The continuous push for higher performance as well as energy efficiency in all industry sectors generates research into new topologies for electrical machines and actuators and, in parallel, continuously challenges the way engineers exploit new developments in electromagnetic materials. In this seminar, the modeling and design of recently developed electrical machines and actuators, chosen from a wide range of fields, will be reviewed.

Presentations of special device topologies will be presented, developed to either meet the particular application needs, exploit new materials to increase performance and efficiency or reduce manufacturing costs.

P R O G R A M M E

Chairman: Prof Barrie Mecrow, University of Newcastle upon Tyne, School of Elec, Elec & Computer Engineering

from 0900 REGISTRATION/COFFEE

1000 WELCOME/INTRODUCTION

1010 ***Large PM Direct Drive Generators***, Prof Ed Spooner, EM Renewables Ltd

1040 ***Design, Analyse and Optimise - Progress in Software Tools for Machine and Actuator Design***, Dr Cris Emson, Infolytica Limited

1110 ***Tooth Forces in Small Machines***, Dr Jonathan Sturgess, AREVA T&D Technology Centre

1140 ***Design of Axial Flux Machine for Variable Speed Integrated Gensets***, Dr Param Anpalahan, Cummins Generator Technologies

1210 LUNCH/POSTERS

Chairman: Dr John Cullen, Rolls-Royce plc

1345 ***Line-Start Permanent-Magnet Machines using a Canned Rotor Construction***, Dr Sandy Smith, University of Manchester, School of Elec & Electronic Engineering

1415 ***The Harmonic Magnetic Gear***, Dr Jan Rens, University of Sheffield, Dept of Elec & Elec Engineering

1445 ***Segmented Rotor Switch Reluctance Drives***, Prof Barrie Mecrow, University of Newcastle upon Tyne, School of Elec, Elec and Computer Engineering

1515 ***Permanent Magnet Machines for Small Renewable Energy Devices***, Dr David Dorrell, Dept of Electronic and Electrical Engineering, University of Glasgow

1545 TEA/END



The Knowledge Network

Co-sponsored by IET
(Institute of Engineering and
Technology)

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 *Modelling and Design of Electromagnetic Actuators and Machines*, co-sponsored by IET, to be held on Thursday, 18 October 2007, at the University of Newcastle upon Tyne, 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/IET Members	£ 79.00	£13.82	£ 92.82
<input type="checkbox"/> As above [student]	£ 23.50	£ 4.11	£ 27.61
<input type="checkbox"/> Non-members	£168.00	£29.40	£197.40
<input type="checkbox"/> Non-member students	£ 39.00	£ 6.82	£ 45.82
<input type="checkbox"/> I wish to make a poster presentation			

PLEASE REGISTER BY 8 October 2007 IF POSSIBLE

Surname.....		First name.....	
Title (Dr/Mr/Mrsetc)		Organisation.....	
Address.....			
.....			
.....			
Tel.....		Fax.....	
Email.....		Web.....	

For payment by VISA/Mastercard/Delta/Electron/JCB/Solo/Maestro/Switch/Amex, please complete in BLOCK CAPITALS and return to:

UK Magnetics Society
Grove Business Centre
Grove Technology Park
Wantage, Oxon OX12 9FA
tel: +44 (0)1235 770652, fax: +44 (0)1235772295
email: jward@ukmagsoc.co.uk

Card Number:	<input type="text"/>
Start Date:	<input type="text"/>
Expiry Date:	<input type="text"/>
Name of Cardholder:	<input type="text"/>
Mailing address of Cardholder:	<input type="text"/>
Signature of Cardholder:	<input type="text"/>

The UK Magnetics Society accepts no responsibility or liability in any way whatsoever for any statements made or opinions expressed during this event