

UK Magnetics Society

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www.ukmagsoc.org

one day seminar

Electrical Drive Systems for the More Electric Aircraft

Thursday, 19 April 2007

at

**University of Bristol
Lecture Theatre 1.15, Queen's Building**

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

Developments in high performance electric actuation, generator and power electronic concepts are leading to increased confidence in the adoption of these technologies on new civil and military aircraft platforms. Electric drive technologies offer significant benefits over established systems, including fuel savings, improved reliability, lower maintenance and reduced overall weight and are being proposed for electrically powered climate control, embedded power generation, electric engine start, flight surface actuation and many other application areas.

Recent advances in electrical drive technologies for the more electric aircraft will be presented through a series of papers from leading industrial and academic experts. In particular it is anticipated that latest developments from the DTI Technology Programme and the MOET European Union project will be discussed.

P R O G R A M M E

0930 AGM (MEMBERS ONLY)

Chairman: Prof Phil Mellor, University of Bristol, Dept of Elec & Elec Engineering

from 0900 REGISTRATION/COFFEE

1000 WELCOME/INTRODUCTION

1020 ***More Electric Aircraft - Airframer Perspective***, Graham Dodds, Airbus UK Limited

1050 ***Soft Magnetic Metal Matrix Composites for High Temperature Electrical Machines***, Dr Thomas Starke, Rolls-Royce plc

1120 ***Electrical System Evaluation Platform for Uninhabited Autonomous Vehicles***, Dr Nigel Schofield, University of Manchester, School of Electrical & Electronic Engineering

1150 ***A Consideration of Aircraft Actuation Duty Cycles with Regard to Future Motor Requirements for the More Electric Aircraft***, Chris Whitley, Smiths Aerospace Mechanical Systems

1220 LUNCH

Chairman: Dr John Cullen, Rolls-Royce plc

1345 ***More Electric Aircraft - Power System Provider Perspective***, Philip McGoldrick, Goodrich Power Systems

1415 ***Implications of Using Aircraft Generators for the Electric Start of Engines***, Prof Phil Mellor, University of Bristol, Dept of Elec & Elec Engineering

1445 TEA

1500 ***High Speed Drives for Aircraft Systems***, Prof Barrie Mecrow, University of Newcastle, School of Elec, Elec & Computer Engineering

1530 ***Technologies for the More Electric Engine***, Prof Geraint Jewell, University of Sheffield, Dept of Elec & Elec Engineering

1600 END

NOTE: IET members, and those attending the Unmanned Air Vehicle Systems 22nd International Conference (UAV) at the University of Bristol, 16-18 April 2007, may attend this seminar at the UKMAG member rate.



The Knowledge Network

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

PLEASE COMPLETE AND RETURN TO:

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

I wish to attend the UK Magnetics Society one-day seminar **Electrical Drive Systems for the More Electric Aircraft**, co-sponsored by IET (Institute of Engineering and Technology), to be held on Thursday, 19 April 2007, at the University of Bristol, 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/UAV attendees	£ 69.00	£12.08	£81.08
<input type="checkbox"/> As above [student]	£ 20.43	£ 3.57	£24.00
<input type="checkbox"/> Non-members	£146.00	£25.55	£171.55
<input type="checkbox"/> Non-member students	£34.00	£5.95	£39.95
<input type="checkbox"/> I wish to make a poster presentation			

PLEASE REGISTER BY 5 APRIL 2007 IF POSSIBLE

Surname.....		First name.....	
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