

UK Magnetics Society

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www.ukmagsoc.org

one day seminar

More Electric Aircraft

Thursday, 2 April 2009

at

University of Bristol

There is presently a drive to establish high performance electric technologies on new civil and military aircraft platforms. Benefits such as improvements in environmental impact, reliability and reduced maintenance and aircraft weight can be achieved by employing electric actuation for control surfaces and landing gear, electromechanical braking, electrical power generation for ancillary on-board systems, variable frequency generators and electric engine start-up. Further improvements can be made by using advanced approaches for on-board energy power management systems.

This seminar will present aspects of the latest developments from industry and academia in the field of technologies for the More Electric Aircraft, in particular relating to technologies being developed in recent UK BERR and EU supported projects .

PROGRAMME

Chairman: Dr John Cullen, Rolls-Royce plc
from 0900 REGISTRATION/COFFEE

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

1000 **WELCOME/INTRODUCTION TO THE KTN-
SPONSORED SYMPOSIUM (MORNING ONLY)**

1400 **Overview of MEA National and European
Projects**
Graham Dodds, Airbus UK Limited

1005 **Introduction to the Electrical Power Systems
National Technical Committee**
Chris Ovenden, GE Aviation, EPS NTC Chair

1430 **Drive Train Solutions for Solar Powered UAVs**
Prof Barrie Mecrow, University of Newcastle,
School of Elec, Elec & Comp Engineering

1025 **Promoting Collaborative R & D throughout
UK Aerospace**
Dr Ruth Mallors, KTN Director

1500 **Control of Multi-Phase Fault-Tolerant PM
Generator**
Dr Rebecca Todd, University of Manchester,
School of Elec & Elec Engineering

1045 TEA/COFFEE

1115 **Electrically Actuated Landing Gear for a Civil
Aircraft Application**
James Thomas, Goodrich Actuation Systems

1530 TEA/COFFEE

1145 **Dual-Output Power Converter based Motor
Drives for Landing Gear Actuation**
Prof Pat Wheeler, University of Nottingham

1600 **An On-Line Winding Fault Detection Technique
for Fault-Tolerant Permanent Magnet Machines**
Dr Jiabin Wang, University of Sheffield, Dept of
Elec & Elec Engineering

1215 **Motor Sub-System Requirements for UAV
Actuation Applications**
Chris Whitley, Saygrove Defence and Aerospace

1630 **Lightweight Wound Components for Applica-
tion in MEA Systems**
Dr Neville McNeill, University of Bristol, Dept of
Elec & Elec Engineering

1245 LUNCH/POSTERS

1700 END

Aerospace
and Defence

Knowledge Transfer Network

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 **More Electric Aircraft**, to be held on Thursday, 2 April 2009 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.**

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	FEE	VAT	TOTAL
<input type="checkbox"/> UKMAG Members	£ 79.00	£11.85	£ 90.85
<input type="checkbox"/> As above [student]	£ 23.50	£ 3.52	£ 27.02
<input type="checkbox"/> Non-members	£168.00	£25.20	£193.20
<input type="checkbox"/> Non-member students	£ 39.00	£ 5.85	£ 44.85
<input type="checkbox"/> I wish to make a poster presentation			

PLEASE REGISTER BY 23 MARCH IF POSSIBLE

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Title (Dr/Mr/Mrsetc)		Organisation.....	
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