

Electrical Drive Systems for the More Electric Aircraft

Thursday, 3 April 2003, at The University of Bristol

Developments in high performance electric actuation and embedded generation concepts are leading to increasing confidence in the adoption of these technologies on new civil and military aircraft platforms. The adoption of electric drive technologies offers significant benefits over established mechanical or hydraulic systems, including improved reliability, lower maintenance and reduced system weight.

This one-day seminar will present recent advances in electrical drive technologies for the more electric aircraft through a series of papers from leading industrial and academic experts. Abstracts of the presented papers will be available on the day.

PROGRAMME

from 0915 REGISTRATION/COFFEE

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

- 1000 Chairman's Introduction
- 1010 *The More Electric Aero-Engine: a General Overview from an Engine Manufacturer*, Dr John Cullen, Rolls Royce Strategic Research Centre
- 1040 *Feasibility of Employing Electric Drives in Helicopters*, TBC, GKN Westland Helicopters Ltd
- 1110 *Novel Electromagnetic Machines for the More Electric Aircraft*, Dr Kais Attallah, Dave Powell, University of Sheffield, Dept of Elec & Elec Engineering
- 1140 *Testing of Four-Phase, Fault Tolerant Drives for Aircraft Fuel Pumps*, Dr Barrie Mecrow, University of Newcastle, Dept of Elec & Elec Engineering
- 1210 LUNCH

Chairman: Prof Dave Rodger, University of Bath, Dept of Elec & Elec Engineering

- 1400 *Axial Flux Propeller Drive Motor for Stratospheric Aircraft using Plastic Structural Components*, Prof Fred Eastham, EnigmaTEC
- 1430 *Electro-Mechanical Actuation of Primary Flight Controls*, Andrew Collins, FHL Division Claverham Ltd
- 1500 *Design Considerations for a Switched Reluctance Low-Pressure Shaft Generator*, Dr Tadashi Sawata, Goodrich Control Systems
- 1530 *A Permanent Magnet Wide-Speed Range Generator for Embedded Aircraft Electrical Systems*, Prof Phil Mellor, University of Bristol, Dept of Elec & Elec Engineering
- 1600 END/TEA

Please note: those attending the Unmanned Air Vehicle Systems(UAVs) International Conference at the University of Bristol, 31 March-2 April 2003, may attend the above UK Magnetics Society one-day seminar at the member rate

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:

Margaret Swadling, The UK Magnetics Society,
 Berkshire Business Centre, Post Office Lane,
 Wantage, Oxon OX12 8SH
 tel: +44 (0)1235 770652,
 fax: +44 (0)1235 772295,
 email: mswadling@ukmagsoc.co.uk

I wish to attend The UK Magnetics Society one-day seminar *Electrical Drive Systems for the More Electric Aircraft*, Thursday, 3 April 2003, at 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: 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.*

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 overleaf.

	Fee	VAT	Total
<input type="checkbox"/> UKMAG/UAV conf attendee	£63.50	£11.11	£74.61
<input type="checkbox"/> UKMAG student member	£31.00	£5.43	£36.43
<input type="checkbox"/> Non-member	£134.00	£23.45	£157.45
<input type="checkbox"/> Non-member student	£51.00	£8.93	£59.93

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**Margaret Swadling
The UK Magnetics Society
Berkshire Business Centre
Post Office Lane
Wantage, Oxon OX12 8SH
tel: +44 (0)1235 770652 fax: +44 (0)1235 772295
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