

# UK Magnetics Society

one day seminar

## *CAD for Electromagnetic Devices*

Thursday, 2 November 2006

at Rolls-Royce plc, Derby

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

This year, the regular UK Magnetics Society's CAD seminar offers a strong technical programme consisting of presentations from the users of a range of software tools and packages for electromagnetic design and analysis. The presentations will give an insight into how these tools are applied to model a wide range of electromagnetic devices and the particular challenges encountered, as well as highlighting the latest developments in the available modelling capabilities; all presented from a user's perspective, and a diverse range of industries and applications will be represented.

To support the technical presentations, there will be an exhibition with demonstrations of the latest CAD software from the developers and vendors, which will offer an excellent opportunity to discuss modelling requirements with key players in the industry.

### PROGRAMME

from 0900 REGISTRATION/COFFEE

Chairman: John Cullen, Rolls-Royce plc

Chairman: Alex Michaelides, Vector Fields Ltd

1010 WELCOME/INTRODUCTION

1015 **Design and Analysis of Magnetic Gearing Systems**, Jan Rens, University of Sheffield, Dept of Elec & Elec Engineering

1045 **The Integration of FEA with Design for Six Sigma for Robust, Cost-Optimised Design**, Nigel Jakeman, Cummins Generator Technologies

1115 **From Illusion to Reality: Designing Motors for the Real World**, Eddie Wearing, Elektro Magnetix Ltd

1145 **Design Considerations for Machines in Aircraft Applications**, Parminder Sangha, Goodrich Corporation

1215 LUNCH  
EXHIBITION

1400 **CAD for Electrical Machines: Some Automotive Examples**, David Moule, TRW Conekt

1430 **1D, 2D and 3D Modelling of Superconductors for Electrical Machines**, Malcolm McCulloch, University of Oxford, Dept of Engineering Science

1500 TEA

1515 **Finite Element Modelling of Magnetostatics for Magnetron Sputter Sources**, Sarah Powell, Gencoa Ltd

1545 **Finite Element Modelling of Electromagnetic Machines**, Richard Ireland, QinetiQ Farnborough

1615 END

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 **CAD for Electromagnetic Devices**, Thursday, 2 November 2006, at Rolls-Royce plc, Derby, 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; please add £10 to cover bank charges if paying by bank transfer from overseas.

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