

# UK Magnetics Society

one day seminar

## Electrical Technology for Automotive Applications

Wednesday, 25 May 2005

at

TRW Conekt, Solihull

There is a continuous drive in the automotive industry for increased economy and reduced emissions, as well as improved driveability and comfort. Existing ICE powered vehicles are being continuously improved while hybrid electric vehicles are now establishing themselves as a formidable alternative. Highly developed on-board electrical and electromechanical systems are paramount to the success of any vehicle. This seminar will concentrate on the research and development and product development of electromechanical and electromagnetic devices for automotive applications ranging from traction drives for electric and hybrid vehicles, actuators for X-by-Wire systems to electromechanical valve actuation.

### PROGRAMME

from 0930 REGISTRATION/COFFEE

1015 WELCOME/INTRODUCTION

Chairman: Dr Alex Michaelides, Vector Fields Ltd

1020 **More Electric Automotive**, Dr Kevin Richardson, TRW Conekt

1050 **Hybrid and Electric Vehicles**, Neil Cheeseman, Zytec Systems Limited

1120 **High Force Linear Actuator for Shift-by-Wire Automated Manual Transmissions**, Andy Turner, Ricardo UK

1150 **A Novel Approach to the Electro-Thermal Problem of Power Electronic Converter Modules for Hybrid Automotive Applications**, Dr Salah Khanniche, University of Wales Swansea, School of Engineering

1220 **Low Cost Motors for Electro-Hydraulic Actuation**, Prof Charles Pollock, Tecnelec Ltd

1250 LUNCH/TECHNICAL EXHIBITION

Chairman: Dr Richard Clark, Dept of Elec & Elec Eng, University of Sheffield

1400 **The Application of SR Technology in Electric and Hybrid-Electric Vehicles**, Dr Mike McClelland, Switched Reluctance Drives Ltd

1430 **Efficient Actuator Design for Electromagnetic Intake Valve Trains**, Dr Christoph Hartwig, TRW Automotive GmbH, Germany

1500 **Free Piston Energy Converter for Automotive Applications**, Martin West, University of Sheffield, Dept of Elec & Elec Engineering

1530 **Global Trends in Hybrid Electric Vehicles**, John West, Consulting Engineer

1600 END/TEA

### PLEASE COMPLETE AND RETURN TO:

Margaret Swadling, The UK Magnetics Society,  
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I wish to attend The UK Magnetics Society one-day seminar *Electrical Technology for Automotive Applications*, Wednesday, 25 May 2005, at TRW Conekt, Solihull, 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.*

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First name.....Title (Dr/Mr/Mrs etc).....

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