

Recent Developments in Motors and Drives for Domestic Applications

Wednesday, 17 September 2003, at University of Leicester
 (Parkside Lounge, Charles Wilson Building)

Domestic applications of motors and drives are becoming increasingly more sophisticated. Recently, new advances in washing machines, air-conditioning, power tools, refrigeration and personal mobility have all involved innovation in motor and drive technology.

This seminar will describe some of the recent developments in brushed and brushless motors and their control that have enabled the design of these innovative products. Speakers from both academia and industry will contribute to the seminar.

PROGRAMME

from 0915 REGISTRATION/COFFEE

**Chairman: Prof Charles Pollock, University of Leicester,
Dept of Engineering**

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

1000 CHAIRMAN'S INTRODUCTION

1400 *Flux Switching Motors for Power Tool Applications*,
Prof Charles Pollock, University of Leicester/Black and
Decker Inc

1010 *Low-Cost PM Brushless Machines for Vacuum Cleaners*,
Prof Qiang Zhu, University of Sheffield

1430 *Considerations for Volume Motor Manufacturing in
Southern China*, Simon Clark, Kenwood Ltd

1040 *Switched Reluctance Motors for Refrigerator
Compressors and an Overview of Recent Developments
in Japan*, Dr Takashi Kosaka, Nagoya Institute of
Technology, Japan

1500 *Dual Voltage Switched Reluctance Motors for
Operation from either AC Supply or Battery*, Weng
Thong, University of Leicester/Black and Decker Ltd

1110 *Applications of SMC in Motors for Domestic Appli-
cations*, Prof Alan Jack, University of Newcastle

1530 END/TEA

1140 *Direct Drive Brushless DC Machine for Electric
Wheelchairs*, Prof Hugh Bolton, Consultant

1545 OPTIONAL LABORATORY TOUR
(Centre for Advanced Electronically Controlled Drives,
Department of Engineering)

1210 LUNCH

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
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I wish to attend The UK Magnetics Society one-day seminar *Recent Developments in Motors and Drives for Domestic Applications*, Wednesday, 17 September 2003, at the University of Leicester, 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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email: mswadling@ukmagsoc.co.uk**



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