

Magnetic Measurements and Standards

Tuesday, 30 March 2004

Wolfson Centre for Magnetics Technology, Cardiff University

New measurement techniques are required to characterise modern magnetic materials in ways that correspond to their use under an increasingly wide range of conditions. This seminar will focus on new developments of magnetic measurements across many areas and how international standards are evolving to support the needs of industry.

A wide range of techniques and materials will be covered including non-sinusoidal measurements of soft materials and their routes of traceability, characterisation of permanent magnets, high sensitivity magnetic field measurements and applications of magnetic measurements in industry.

A tour of the laboratories at the Wolfson Centre for Magnetics Technology will take place during the day.

PROGRAMME

from 0915 REGISTRATION/COFFEE

0930 AGM [Members only]

Chairman: Prof Tony Moses, Wolfson Centre for Magnetics Technology, Cardiff University

1010 Chairman's Introduction

1015 *Iron Loss Prediction under PWM Based on Sinusoidal Magnetisation*, Dr Jeanete Leicht, Wolfson Centre for Magnetics Technology, Cardiff University

1045 *The Development of International Standards for Magnetic Alloys and Steels*, Dr Hugh Stanbury, Cogent Power Ltd

1115 *Traceability of Non-Sinusoidal Magnetic Measurements*, Dr Michael Hall, National Physical Laboratory

1145 *Magnetic Measurements for Non-Destructive Evaluation*, Prof David Jiles, Ames Laboratory and Dept of Materials Science & Engineering, Iowa State University, USA

1215 LUNCH
 TOUR OF WOLFSON CENTRE LABORATORIES

Chairman: Prof David Jiles, Ames Laboratory and Dept of Materials Science & Eng, Iowa State University, USA

1400 *Ultrasensitive Magnetic Measurements using SQUIDS*, Dr Dareyoush Rassi, School of Health Science, University of Wales Swansea

1430 *DKD Accreditation and Calibration in a Commercial Laboratory*, Dr Gunnar Ross, MAGNET-PHYSIK Dr Steingroever GmbH, Germany

1500 *Magnetic Testing of Permanent Magnets*, Dr Geraint Jones, TSGPlus

1530 *Magnetic Sensors for Low Current Measurement*, Lawrence Jones, LEM HEME Ltd

1600 TEA
 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 *Magnetic Measurements and Standards*, Tuesday, 30 March 2004, at Cardiff University, 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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The U.K. **Magnetics**
Society 

***Magnetic
Measurements
and Standards***

one-day seminar

Tuesday, 30 March 2004

at

**Wolfson Centre for
Magnetics Technology
Cardiff University**