



Magnetic Measurements for Innovation One-day UK Magnetics Society seminar at BEMC

Thursday 17th November 2005
at National Physical Laboratory, Teddington, Middlesex

from 0930 REGISTRATION/COFFEE

a.m. session: "Characterisation and Measurement Techniques of Magnetic Materials - Recent Developments"

Chairman: Jonathan Williams, National Physical Laboratory

1010 WELCOME/INTRODUCTION

1015 The Characterization of Soft and Hard Magnets: Basic Methods and Present-Day Developments.
Dr Fausto Fiorillo, Istituto Elettrotecnico Nazionale Galileo Ferraris, Italy. Keynote speaker, 45 mins

1100 Dynamic Domain Imaging and Non-Repeatable Domain Wall Motion in Microstructural Materials.
Dr Paul Williams, Wolfson Centre for Magnetics Technology, Cardiff School of Engineering, Cardiff University

1130 Viscosity-Based Magnetodynamic Model of Soft Magnetic Materials for Prediction of Behaviour Under Non-Standard Conditions.
Prof Sergey Zirka, Dnepropetrovsk National University, Ukraine

1200 Measurement of Magnetic Properties for Operational Conditions.
Dr Michael Hall, National Physical Laboratory

Lunch: 1230 – 1300

Laboratory tours: 1300 – 1345

p.m. session: "Characterisation of Materials for Magnetic Applications"

Chairman: Dr Phil Anderson, Wolfson Centre for Magnetics Technology, Cardiff School of Engineering, Cardiff University

1345 The Challenge of Introducing New Materials.
Patricia Jansson, Höganäs AB

1415 Loss Modelling in Electrical Machine Design.
Dr David Powell and Dr Stuart Calverley, Electrical Machines and Drives Group, University of Sheffield

1445 Magnet Measurements for Automotive Applications.
Graham Kemp, Electric Drives Group, TRW Conekt

1515 Characterization of Stress and Temperature Dependent Properties of Materials for Electromagnetic Simulations.
John Simkin and Alex Michaelides, Vector Fields

1545 END/TEA