

UK Magnetics Society

Grove Business Centre Grove Technology Park Wantage Oxfordshire OX12 9FA UK
tel: +44 (0) 1235 770652 fax: +44 (0) 1235 772295 email: jward@ukmagsoc.co.uk
www.ukmagsoc.org

one day seminar

Magnetics in Medicine

Wednesday, 30 June 2010

at

Cardiff Medicentre, Heath Park, Cardiff CF14 4UJ

Magnets, magnetic fields and magnetic sensors are now found in many different medical and biological applications. For example, magnetic nanoparticles are now widely used for applications such as drug release within the body and cancer detection. Magnetic sensors are being used to detect magnetic microtags, which have encoded with biochemicals, such as DNA and antibodies. Magnetic fields are being used on the body to stimulate muscles and the brain, which include the design of new coils to achieve the required magnetic fields. This seminar will look at these different aspects of magnetics in medicine and biomagnetics.

PROGRAMME

Chairman: Dr Nicola Morley, University of Sheffield, Dept of Engineering Materials

Chairman: Roger Allcock, Cobham Technical Services, Vector Fields Software

from 0900 REGISTRATION/COFFEE

1000 **WELCOME/INTRODUCTION**

1345 ***Transcranial Magnetic Stimulation***

1015 ***Introduction to Meditech***
Professor John Middleton, Cardiff University

Dr Paul Williams, Wolfson Centre for Magnetics, Cardiff University

1030 ***The Uses of Magnetic Nanoparticles for Healthcare Applications***
Dr Paul Southern, University College London

1415 ***Peripheral Functional Magnetic Stimulation***
Dr Johann Szecsi, Ludwig-Maximilians University, Department of Neurology

1100 ***Nanomagnetic Actuation and Magnetic Particles for Cellular Tumour Targeting***
Professor John Dobson, University of Keele

1445 ***High temperature superconducting magnets for use in Natural Orifice Transluminal Endoscopic Surgery***
Richard Lewin, University of Oxford, Clarendon Laboratory

1130 ***Magnetic Particles and Microfluids***
Dr Nicole Pamme, University of Hull, Department of Chemistry

1515 ***Biomagnetic Diagnostics using Ultra-Sensitive Magnetometers***
Dr Dareyoush Rassi, School of Human and Health Science, Swansea University

1200 ***Magnetic Lab-on-a-chip Devices***
Dr Thanos Mitrelias, Cambridge Biomagnetics

1230 LUNCH/POSTER SESSION

1545 TEA/COFFEE - END OF SEMINAR

PLEASE COMPLETE AND RETURN TO:

Jane Ward, UK Magnetics Society, Grove Business Centre, Grove Technology Park, Wantage, Oxon OX12 9FA
tel: +44 (0)1235 770652 fax: +44 (0)1235 772295 email: jward@ukmagsoc.co.uk www.ukmagsoc.org

I wish to attend the UK Magnetics Society one-day seminar ***Magnetics in Medicine***, to be held on Wednesday, 30 June 2010 at Meditech, 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: UK Magnetics Society, Barclays Bank plc, 17 Market Place, Wantage, Oxon OX12 8AG, UK, Acct No 50893293, Sort Code No: 20-90-91, IBAN:GB98 BARC 2090 9150 8932 93, SWIFTBIC: BARCGB22. **Please add £10 to cover bank charges if paying by bank transfer from overseas.**

If you wish to be invoiced, please give Purchase Order number, if appropriate. PO number.....

If you wish to pay by VISA/Mastercard/Delta etc, please complete all sections of the form below.

	FEE*	VAT	TOTAL
<input type="checkbox"/> UKMAG Members	£ 79.00	£13.82	£ 92.82
<input type="checkbox"/> As above [student]	£ 23.50	£ 4.11	£ 27.61
<input type="checkbox"/> Non-members	£168.00	£29.40	£197.40
<input type="checkbox"/> Non-member students	£ 39.00	£ 6.82	£ 45.82
<input type="checkbox"/> I would like a poster session			

* 3 delegates get 50% off the third person (cheapest rate applies). For bookings of more than 3 people, please contact Jane Ward

PLEASE NOTE REFUNDS CANNOT BE MADE FOR CANCELLATIONS RECEIVED 72 HOURS PRIOR TO THE SEMINAR

PLEASE REGISTER BY 18 June IF POSSIBLE

Surname.....		First name.....	
Title (Dr/Mr/Mrsetc)		Organisation.....	
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