

UK Magnetics Society

Grove Business Centre Grove Technology Park Wantage Oxfordshire OX12 9FA UK
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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 ***The Uses of Magnetic Nanoparticles for Healthcare Applications***

Dr Paul Williams, Wolfson Centre for Magnetics, Cardiff University

Dr Paul Southern, University College London

1415 ***Peripheral Functional Magnetic Stimulation***

1045 ***Nanomagnetic Actuation and Magnetic Particles for Cellular Tumour Targeting***

Professor John Dobson, University of Keele

Dr Johann Szecsi, Ludwig-Maximilians University, Department of Neurology

1445 ***Biomechanics and Biomaterials***

Professor John Middleton, Cardiff Medicentre

1115 ***Magnetic Particles and Microfluids***

Dr Nicole Pamme, University of Hull, Department of Chemistry

1515 ***Title TBA***
Speaker TBA

1145 ***Magnetic Lab-on-a-chip Devices***

Dr Thanos Mitrelias, Cambridge Biomagnetics

1545 TEA/COFFEE - END OF SEMINAR

1215 LUNCH/POSTER SESSION

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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