

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: mswadling@ukmagsoc.co.uk
www.ukmagsoc.org

22nd Ewing Lecture

Professor Quentin Pankhurst

Healthcare Biomagnetics: a New Age for Magnetic Therapy

Afternoon programme

Frontiers of Medicine: New and Emerging Roles for Biomagnetics

Tuesday, 9 December 2008

at

The Royal Society, London

Professor Quentin Pankhurst, Director of The Royal Institution's Davy-Faraday Research Laboratory, will give a lecture on the Laboratory's current work and future direction. Ever since Mesmer enthralled Europe during the Age of Enlightenment, "magnetic healing" has had many colourful champions all too ready to proclaim the amazing powers of magnetism. No less amazing though is the current revolution in healthcare biomagnetics, all of which is based on the solid ground of cross disciplinary innovation. In this lecture the field will be reviewed, with particular attention being given to the sensing, moving and heating of magnetic non-particles in the human body. A number of diagnostic and therapeutic medical applications will be discussed, including a biomagnetometer that is currently being tested by cancer surgeons, and an actuator for the targeted treatment of cardiovascular disease. Professor Pankhurst's lecture will be complemented by an afternoon session of presentations by four international speakers from the forefront of both academic and industrial Biomagnetic research.

PROGRAMME

Chairman: Dr Chris Maddison, Cummins Generator Technologies

from 1500 REGISTRATION/COFFEE

1530 WELCOME/INTRODUCTION

1540 **Medical Diagnostics based on Magnetic Nanoparticles**, Professor Dr Menno W J Prins, Philips Research, The Netherlands

1610 **Localised Nucleic Acid Delivery using Magnetic Nanoparticles and Magnetic Force**, Dr Christian Plank, Institute of Experimental Oncology, Technical University, Munich

1640 **Magnetic Microbubbles for Localised Ultrasound Imaging and Therapy**, Dr Eleanor Stride, Department of Mechanical Engineering, University College London

1710 **Magnetic Nanoparticles as MRI Contrast Agents**, Dr Nguyen T K Thanh, Department of Chemistry and School of Biological Sciences, University of Liverpool

1740 INTERVAL: TEA/COFFEE

1830 **22nd EWING LECTURE: Healthcare Biomagnetics: a New Age for Magnetic Therapy**, Prof Quentin Pankhurst, Director of The Royal Institution's Davy-Faraday Laboratory

2000 **DENNIS HADFIELD MEMORIAL PRIZE AWARD** (Best Student Bursary Conference Report in 2008 Magnews)

2015 BUFFET SUPPER

2200 END

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 22nd Ewing Event: **Healthcare Biomagnetics: A New Age for Magnetic Therapy** and **Frontiers of Medicine: New and Emerging Roles for Biomagnetics**, to be held on Tuesday, 9 December 2008, at The Royal Society, Carlton Terrace, London, and enclose remittance to cover technical sessions, seminar documentation, refreshments and buffet supper (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	£ 92.00	£16.10	£108.10
<input type="checkbox"/> As above [student]	£ 46.00	£ 8.05	£ 54.05
<input type="checkbox"/> Non-members	£161.00	£28.17	£189.17
<input type="checkbox"/> Non-member students	£ 69.00	£12.07	£ 81.07
<input type="checkbox"/> I wish to make a poster presentation			

PLEASE REGISTER BY 30 NOVEMBER 2008 IF POSSIBLE

Surname.....		First name.....	
Title (Dr/Mr/Mrs etc)		Organisation.....	
Address.....			
.....			
.....			
Tel.....		Fax.....	
Email.....		Web.....	

**For payment by
 VISA/Mastercard/Delta/Electron/JCB/Solo/
 Maestro/Switch/Amex, please complete in
 BLOCK CAPITALS and return to:**

**UK Magnetics Society
 Grove Business Centre
 Grove Technology Park
 Wantage, Oxon OX12 9FA
 tel: +44 (0)1235 770652, fax: +44 (0)1235772295
 email: jward@ukmagsoc.co.uk**

Card Number:	<input type="text"/>
Start Date:	<input type="text"/>
Expiry Date:	<input type="text"/>
Name of Cardholder:	<input type="text"/>
Mailing address of Cardholder:	<input type="text"/>
Signature of Cardholder:	<input type="text"/>

The UK Magnetics Society accepts no responsibility or liability in any way whatsoever for any statements made or opinions expressed during this event