

UK Magnetics Society

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one day seminar - co-sponsored by DS Net UK

Nanoscale Data Storage: Squeezing More Data into Less Space

Thursday, 26 June 2008

at

**University of Manchester
School of Computer Science**

This seminar brings together leading experts to look at the possible routes to higher data storage density as physical limits of existing technologies are reached. The emphasis will be on the use of nanoscale structures to improve storage density as current magnetic technology runs out of steam. The use of new magnetic materials to allow the existing magnetic storage paradigm (hard disk technology) to continue and the introduction of disruptive technologies to replace the existing one will be considered. It is clear that any disruptive technology must give a three to ten times improvement in density depending on the cost in order to make a significant impact and must have a 5 to 10 year roadmap extending density by at least further order of magnitude beyond the initial level.

The seminar aims to provide both an academic and industrial perspective on the following issues amongst others:

- Perpendicular magnetic data storage - future prospects
- Patterned magnetic storage media for storage above one tera bit per square inch
- Magnetic nano-wires for ultra-high data storage density
- The future for probe storage technology

PROGRAMME

Chairman: Dr Ernie Hill, School of Computer Science,
University of Manchester

Chairman: Prof David Wright, School of Engineering &
Computer Science, University of Exeter

from 0900 REGISTRATION/COFFEE

1000 WELCOME/INTRODUCTION

1010 ***Patterned Media for Storage beyond 1Tb/sq.in.***
Dr Branson Belle, School of Computer Science,
University of Manchester

1040 ***Data Recovery Implications for Nanoscale
DataStorage***, Phil Buttifant, Computer Science Labs

1110 ***The Dataslide Storage Concept***, Charles Barnes,
CEO Dataslide Limited

1140 ***Probe-based Data Storage to 10 Tbit/sq.in and
Beyond***, Prof David Wright, School of Engineering &
Computer Science, University of Exeter

1210 ***Advances in Magnetic Recording Technology***, Dr
Mark Gubbins, Seagate Technology

1240 LUNCH/POSTERS

1345 ***The Potential for Graphene and Carbon Nanotubes
in Data Storage***, Dr Ernie Hill, School of Computer
Science, University of Manchester

1415 ***Nanoscale Storage using Domain Walls***, Dr Dan
Read, Department of Physics, Imperial College,
London

1445 TEA

1500 ***Nanoscale Optical Data Storage***, Dr Andrew Pauza,
Plasmon Data Systems Limited

1530 ***MRAM: Solid State Magnetic Memory***, Prof Genhua
Pan, School of Computing, Communications & Elec-
tronics, University of Plymouth

1600 END

PLEASE COMPLETE AND RETURN TO:

Jane Ward, UK Magnetics Society, Grove Business Centre, Grove Technology Park, Wantage, Oxon OX12 9FA
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I wish to attend the UK Magnetics Society one-day seminar **Nanoscale Data Storage: Squeezing More Data into Less Space**, to be held on Thursday, 26 June 2008, at the University of Manchester, 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/DSNet UK members	£ 79.00	£13.82	£ 92.82
<input type="checkbox"/> UKMAG/DSNet UK student members	£ 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 wish to make a poster presentation			

PLEASE REGISTER BY 16 JUNE 2008 IF POSSIBLE

Surname.....		First name.....	
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