The U.K. Magnetics Society

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Magnetic Data Storage: Challenges and Possibilities

Thursday, 22 May 2003, at The University of Manchester, IT Building, Dept of Computer Science

[co-sponsored by the UK Data Storage Network]

Magnetic recording has reached something of a 'cross-roads'. The conventional recording paradigm of longitudinal recording on granular thin films is forecast to reach limits imposed by the superparamagnetic effect at densities of a few hundred Gbits/sq in. At higher densitites, a range of alternative recording techniques are possible, including recording on patterned media, perpendicular recording, probe recording and heat-assisted recording. This one-day meeting aims to address the challenges involved in the development of some of these alternative techniques, and to assess the performance and application possibilities that they offer.

PROGRAMME

***from* 1030 REGISTRATION/COFFEE**

Chairman: Prof C D Wright, University of Exeter, School of Engineering and Computer Science

1100 WELCOME

1110 ***The Feasibility of Terabit per Square Inch Perpendicular Recording,*** J J Miles, University of Manchester

1130 ***Development of Ultra-High Density Heat Assisted Recording Media,*** D Newman, Coventry University

1150 ***Simulation of Probe Recording on Patterned Media,*** D Edmundson, University of Exeter

1210 ***Signals and Noise in Patterned Media,*** M M Aziz, University of Exeter

1230 LUNCH

Travel Information: University of Manchester campus maps and Manchester city centre maps can be found at www.man.ac.uk/about/maps.html and attendees are advised to go to the Information Technology Building, No 39 on the map, from where notices will provide directions to the meeting rooms IT406 and IT407. Any queries about transport and the location of the meeting can be adressed to B.Middleton@cs.man.ac.uk, tel: 0161 275 4551.

Chairman: Dr P W Nutter, University of Manchester, Dept of Computer Science

1330 ***Theory of Recording onto Arrays of Stoner-Wohlfarth Particles using Probe Heads,*** B K Middleton, University of Manchester

1350 ***Scanned Probe Storage on MRAM Elements,*** C D Wright, University of Exeter

1410 ***Changing Microstructure and Implications for Noise Characteristics in Archival Tape Systems,*** P R Bissell, University of Central Lancashire

1430 ***Spacing Losses in Linear Digital Tape Systems - Causes and Solutions***, J Sullivan, University of Aston

1450 TEA

1510 **Short Presentations:**

Fields of Axisymetric 3-D Recording Heads, D McKirdy, University of Manchester

Accurate 2-D and 3-D Magnetic Recording Head Field Approximations, D T Wilton, H A Shute, D J Mapps, University of Plymouth; D McKirdy, J J Miles, University of Manchester

Discussion: ***Future Activities within DSN***

1630 CLOSE

PLEASE COMPLETE AND RETURN TO:

Margaret Swadling, The UK Magnetics Society
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I wish to attend The UK Magnetics Society one-day seminar *Magnetic Data Storage: Challenges & Possibilities*, Thursday, 22 May 2003, at 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: The UK Magnetics Society, Barclays Bank plc 17 Market Place, Wantage, Oxon OX12 8AG, UK, Account No 50893293, Sort Code No: 20-90-91; *please add on £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 overleaf.

	Fee	VAT	Total
☐ UKMAG/Data Storage N'wk	£65.41	£11.45	£76.86
☐ UKMAG student member	£31.93	£5.59	£37.52
☐ Non-member	£138.02	£24.15	£162.17
☐ Non-member student	£52.53	£9.19	£61.72

☐ **I am a member of the UK Data Storage Network**

Please register by 19 May

Surname.....

Initials.....Title (Dr/Mr/Mrs etc).....

Organisation.....

Address.....

.....

Tel.....

Fax.....

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Web.....

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Please complete* in BLOCK CAPITALS *and return to:

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one-day seminar

Thursday, 22 May 2003

at

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