

**DAY 1      Tuesday 2 September**

09:00-10:00    Registration & coffee

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**10:00            Session 1**

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10:00            Welcome – David Gadian

10:05-10:50    **Bill Moore Memorial Lecture**  
**Peter Styles, University of Oxford**

*“Memories of the MR Story – the British Chapter and Oxford Verse”*

10:50-11:05    **Submitted presentations**    “Emmerdale” - or High fields and horses:  
 High resolution imaging at 4.7T using four irregularly-shaped receiver coils  
*D Carmichael, N Chhina, M Cooper, E De Vita, C Randall, R Ordidge*

11:05-11:20    Application of MR imaging in the equine patient  
*RC Murray, SJ Dyson, MV Branch*

**11:20-11:45    Coffee**

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**11:45            Session 2 – Image and spectrum processing/analysis**

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11:45-12:00    Correcting object motion in fixed coils  
*D Atkinson, DJ Larkman, PG Batchelor, DLG Hill, JV Hajnal*

12:00-12:15    Initial investigation of Padé methods for the enhanced reconstruction of MR data  
*MF Callaghan, DJ Larkman, MC Wiltshire, JV Hajnal*

12:15-12:30    Assessment of the Pade approximant for quantifying <sup>1</sup>H MR spectroscopy data  
*DC Williamson, NA Thacker, SR Williams*

12:30-12:45    Improvement of registration method for longitudinal structural MRI analysis of brain atrophy in neurodegenerative disease  
*IB Cena, R Boyes, G Brown, E Lewis, J Schott, N Fox*

12:45-13:00    Simulations of the BOLD effect using a realistic model of the vasculature  
*JP Marques, R Bowtell*

**13:00-14:00    Lunch**

<b>14:00</b>	<b>Session 3 - Human brain imaging and spectroscopy</b>
14:00-14:15	Quantification of bolus-tracking MRI data using Tikhonov regularization <i>F Calamante, DG Gadian, A Connelly</i>
14:15-14:30	Correction of errors caused by eddy currents in diffusion tensor imaging with EPI <i>Y Shen, S Counsell, D Larkman, M Rutherford, O Kapellou, J Allsop, D Edwards, J Hajnal</i>
14:30-14:45	The potential of diffusion tensor tractography for neurosurgical planning of brain tumours <i>CA Clark TR Barrick, MM Murphy, BA Bell</i>
14:45-15:00	Diffusion weighted imaging and perinatal brain injury <i>M Rutherford, S Counsell, J Allsop, J Boardman, O Kapellou, F Cowan, Y Shen, J Hajnal</i>
15:00-15:15	White matter abnormalities in sickle cell disease detected using voxel-based morphometry (VBM) <i>T Baldeweg, A Hogan, F Kirkham, D Saunders, F Vargha-Khadem, D Gadian</i>
15:15-15:30	Glutamate dependent plasticity in human motor cortex following repetitive cortical stimulation demonstrated by 1H MRS <i>K Davies, S Williams, D Gow, J Rothwell, A Hobson, D Thompson, S Hamdy</i>
<b>15:30</b>	<b>Session 4 - Posters and Guest Lecture</b>
15:30-1700	Tea and poster session
17:00-1800	<b>Guest Lecture</b> <b>Alex Pines, Department of Chemistry, University of California, Berkeley, USA</b> <i>“NMR and MRI at a Distance”</i>
<b>19:00</b>	<b>Boat departs from Temple Pier</b>

**DAY 2      Wednesday 3 September**

**09:30      Session 5 - Contrast Agent Sequences**

- 09:30-10:15    **Kevin Brindle, Department of Biochemistry, University of Cambridge**  
                   “*Novel Contrast Agents and their Biomedical Applications*”
- 10:15-10:30    An evaluation of the use of UFLARE for rapid acquisition of B<sub>0</sub> field maps for undistortion of EPI  
                   *M Cercignani, M Symms, P Boulby, G Barker*
- 10:30-10:45    TWIST; improving EPI image quality by a reduction of the effective readout time  
                   *E De Vita, D Thomas, D Carmichael, R Turner, R Ordidge*
- 10:45-11:00    Multislice high resolution fMRI using zoom techniques with interleaved EPI  
                   *W van der Zwaag, S Francis, R Bowtell*
- 11:00-11:15    Direct detection of rapidly fluctuating magnetic fields using fast MR spectroscopy and 2D localized strip-MAMBA  
                   *M Paley, K Lee, G Cooke, LS Chow, J Wild, S Fischele, A Wilkinson, E van Beek, G Darwent, P Griffiths, E Whitby*

**11:15-11:45    Coffee**

**11:45      Session 6 - Body and musculoskeletal MR**

- 11:45-12:00    Intravoxel incoherent motion imaging in locally advanced rectal tumours  
                   *C Domenig, ASK Dzik-Jurasz, MO Leach, SJ Doran*
- 12:00-12:15    Assessment of minimal preparation techniques for MR colonography  
                   *V Jardine, E Sala, J Pinney, J Skinner, DJ Lomas*
- 12:15-12:30    Interactive MRCP with adaptive averaging  
                   *LE Kershaw, RT Black, MJ Graves, DJ Lomas*
- 12:30-12:45    Impact of intragastric acid stability of fat emulsions on satiety and gastric emptying  
                   *L Marciani, D Bush, M Wickham, B Pick, J Wright, R Faulks, A Fillery Travis, RC Spiller, PA Gowland*
- 12:45-13:00    Imaging of human bone in vivo using ultrashort TE (UTE): <sup>31</sup>P and <sup>1</sup>H  
                   *MD Robson, ILH Reichert, PD Gatehouse, T He, KE Chappell, J Holmes, S Girgis, GM Bydder*

**13:00-14:00    Lunch**

<b>14:00</b>	<b>Session 7 - Cardiac and vascular</b>
14:00-14:45	<b>Philip Kilner, Cardiovascular Magnetic Resonance Unit, Royal Brompton Hospital</b> <i>“Cardiovascular Forms and Flows”</i>
14:45-15:00	Renal perfusion and function in patients with atherosclerotic renovascular disease <i>DL Buckley, AE Shurrab, JE Kilgallon, AP Jones, H Mamtora, PA Kalra</i>
15:00-15:15	Vena cava contrast enhanced MR venography: experience of 52 consecutive cases <i>J Lin, K-R Zhou, Z-W Chen, J-H Wang, Z-P Yan, Y-XJ Wang</i>
15:15-15:30	WHHL rabbit aorta atherosclerosis progression characteristics observed by gradient echo MRI <i>Y-X Wang, H Kuribayashi, J Tessier, M Wågberg, D Checkley, R Fritsche-Danielson, J Waterton</i>
15:30-15:45	Studies of pulsatile flow in models of the human carotid bifurcation <i>I Marshall, P Papathanasopoulou</i>
<b>15:45-16:15</b>	<b>Tea</b>
<b>16:15</b>	<b>Session 8 - Experimental Models</b>
16:15-16:30	fMRI response to direct cortical stimulation under different anaesthetics in the rat <i>V Austin, A Blamire, P Styles, P Matthews, N Sibson</i>
16:30-16:45	Serial <i>in vivo</i> magnetic resonance imaging of stroke-induced transhemispheric neural stem cell migration <i>M Modo, K Mellodew, D Cash, SE Fraser, TJ Meade, J Price, SCR Williams</i>
16:45-17:00	Characterisation of vascular territories using arterial spin labelling <i>MF Lythgoe, DL Thomas, L van der Weerd, DG Gadian</i>
17:00-17:15	In vivo, in vitro and HRMAS NMR spectroscopy study of apoptosis <i>JL Griffin, PK Valonen, KK Lehtimäki, OHJ Grön, MI Kettunen, S Ylä-Herttua, J Nicholson, RA Kauppinen</i>
17:15-17:30	Endothelin-1-mediated decrease in cerebral blood volume alters the ADC, T <sub>1</sub> and MTR of rat brain <i>NR Sibson, JP Lowe, AM Blamire, P Styles, DC Anthony</i>
<b>17:30</b>	<b>End of meeting</b>