Scientific Programme EUROMAR 2006

Sunday 16 July	
From 14.00	Registration & Poster mounting
18.30	Mixer & Dinner
20.00	Welcome: Central Hall EUROMAR Medal Lecture Sir Peter Mansfield "MRI of Fluid Flow in Porous Media - Applications to the Oil Industry"
21.00	Hospitality suite party by JEOL & Oxford Instruments and Poster mounting

Monday 17 July		
09.00	Plenary Lectures: Central Hall Pharmaceutical Applications: Lucio Frydman "Principles and Progress in Ultrafast Multidimensional NMR" Imaging: Klaes Golman "Real-time Metabolic Imaging using Hyperpolarized 13C"	
10.30	Coffee Break	
11.00	Session 1A: Chair: Duncan Farrant Pharmaceutical Applicns 1 Tony Watts "Receptor dynamics and structure in membranes resolved using solid state NMR" 1 Andrew Mason "Refining vector and antibiotic peptides using data acquired from solid-state NMR" 2 Jean-Baptiste Guilbaud "Solid-state NMR studies of drug-polymer interactions in poly-lactide-co-glycolides" 3 Christoph Deller "Investigation of local Dynamics via ^{2}H Solid-State MAS NMR"	Session 1B: Chair: Kevin Brindle Imaging 1: Silvio Aime "Targeting and Responsive Probes for MR Molecular Imaging Applications" 4 Luis Pedros "Gases as structural contrast agents in MRI, controlling the diffusion by admixture of buffer gases for biomedical applications" 5 Michael Fey "MR Microscopy of Small Samples with Resolution Below 10 Micrometers" 6 Susie Huang "Designing feedback-based contrast enhancement for in vivo imaging"
12.45	Lunch	
14.15	Session 2A: Chair: Malcolm Levitt High Sensitivity MR 1: Joerg Wrachtrup "Single Spin Experiments with Microwave and Optical Fields" 7 Herve Desvaux "SPIDER: A New NMR Approach for enhancing Proton Polarization from Highly Polarized Spin Systems" 8 Walter Kockenberger "Fast 2D spectroscopy using parahydrogen-induced polarisation" 9 Yung-Ya Lin "Avalanching Amplification of MR Sensitivity by Solvent-Generated Feedback Fields"	Session 2B: Chair: Kevin Brindle Imaging 2: Alan Koretsky "Functional, Molecular and Cellular MRI of the Rodent Brain" 10 Thomas Oerther "Micro-Imaging with Cryogenic Probes" 11 Alexander Karabanov "Selective RF pulses allowing for T_1 and T_2 relaxation" 12 Bernhard Blumich "Mobile NMR: From Pipes to Paintings"
16.00	Tea Break	
16.30	Session 3A: Chair: Beat Meier Biosolids 1: Hartmut Oschinat 13 Eike Brunner "Biomineralization in diatoms: An NMR spectroscopic study" 14 Anne Lesage "Investigation of Protein Hydration in Microcrystalline Crh by Solid-State NMR Spectroscopy" 15 Vikram Bajaj "Assignment and Topology of the Retinal Chromophore in Photocycle Intermediates of [U-13C,15N]-Bacteriorhodopsin via DNP-enhanced Solid State NMR"	Session 3B: Chair: Janez Dolinsek Solid State Physics 2: Ferdinando Borsa "NMR detection of Quantum Tunneling of the Magnetization in Molecular Nanomagnets" 16 Pieter Magusin "Hydrogen storage in magnesium, scandium and MgSc alloys: hydrogen siting and dynamics studied with solid-state 1H NMR" 17 Keiji Shimoda "Survey of Ca Environments in Silicate Glasses by ^{43}Ca MQMAS NMR Technique" 18 Beau Webber "NMR relaxation and novel NMR Cryoporometry studies of clathrate formation and dissolution in vapour/water/ice/hydrate systems"
18:00	Bruker Vendor presentations: Central Hall	
19.00	Dinner	
20.30	Hospitality Suites with Bruker Party	

Tuesday 18 July		
09.00	Plenary Lectures: Central Hall Methods in Solids: Lyndon Emsley "NMR Crystallography of Powders" Paramagnetic Sys: Jan Schmidt "High-Frequency EPR and ENDOR Spectroscopy on Semiconductor Nanoparticles"	
10.30	Coffee Break	
11.00	Session 4A: Chair: Jeremy Titman Methods in Solids: Stephen Wimperis "NMR of quadrupolar nuclei in solids: new methods for studying structure and dynamics" 19 Sharon Ashbrook "Study of High-Pressure Silicates using High-Resolution NMR and First-Principles Calculations" 20 Sasa Antonijevic "Nitrogen-14 Excitation via Residual Dipolar Splittings (NERDS) in Solids" 21 Steven Brown "High-Resolution Solid-State NMR Methods for Probing Hydrogen-Bonding Interactions"	Session 4B: Chair: Daniella Goldfarb Paramagnetic Systems 2: Thomas Prisner "Multidimensional Hyperfine and REFINE Spectroscopy on Metalloenzymes" 22 Edward Reijerse "Spin Density Distribution in the Active Site of Iron-only Hydrogenase as revealed by Q band pulsed ENDOR and HYSCORE Spectroscopy" 23 George Mitrikas "Pulse EPR Studies on the Copper(II) and Cobalt(II) Complexes of N-Confused Porphyrin" 24 Victor Chechik "Adsorption And Mobility Of Spin-Labelled Thiolate Ligands On The Au Nanoparticle Surface: Pulse EPR Distance Measurements"
12.45	Lunch	
14.15	Session 5A: Chair: Duncan Farrant Pharmaceutical Applicns 2 Jacques Courtieu "NMR in chiral liquid crystal solvents 25 Mate Erdelyi "Epothilone Bioactity: A Solution NMR Investigation of the Tubulin-bound Conformation and the Conformational Change Upon Binding" 26 Ulrich Scheler "Binding of Amino Acids to Macromolecules Monitored by 3D Electrophoresis NMR" 27 Monika Bayrhuber "Structural and functional characterization of the first member of a new Kunitz type neurotoxin family – Conkunitzin-S1"	Session 5B: Chair: Daniella Goldfarb Paramagnetic Systems 1: Klaus Moebius "High-field EPR on Membrane Proteins: Probing Functional States with High Resolution and High Sensitivity" 28 Silvia Schleidt "A site-directed spin-labeling study of surfactants in polymer-clay-nanocomposites" 29 Damien Murphy "Visualising Diastereomeric Interactions in Enantioselective Homogeneous Catalysis by Combined EPR and Computer Modelling" 30 Vadim Atsarkin "Electron spin resonance and relaxation in superparamagnetic nanoparticles"
16.00	Tea Break	
16.30	Poster Session 1	
18:00	Varian Vendor presentations: Central Hall	
19.00	Dinner	
20:30	Prize Session: AMPERE, ER Andrew and Russell Varian prizes.	
22:00	Hospitality Suites with Varian Party	

Wednesday 19 July		
09.00	Plenary Lectures: Central Hall High Sensitivity MR: Robert Griffin "High Frequency Dynamic Nuclear Polarization in Solids and Liquids" Catalysis: Cornelis Elsevier "High Pressure and Transition Metal NMR Spectroscopy: Splendid Tools for Molecular Sciences"	
10.30	Coffee Break	

11.00	Session 6A: Chair: Malcolm Levitt High Sensitivity MR 2: HongWen Jiang "Single Electron Spin Detection in Silicon Based Semi-conductor Structures" 31 Damir Blazina "Recent Developments in DNP NMR" 32 Joerg Matysik "High sensitivity and spatial selectivity in photosynthetic reaction centre complex obtained by photo-CIDNP MAS NMR" 33 John Clarke "SQUID-Detected Nuclear Magnetic Resonance and Magnetic Resonance Imaging in Microtesla Fields"	Session 6B: Chair: Simon Duckett Catalysis 1: Michael Anderson "Nanoporous Catalysts : Formation and Function" 34 Rudolph Willem "High Resolution Magic Angle Spinning ^{1}H, ^{13}C, ^{119}Sn NMR as a Powerful Tool for Investigations on Grafted Organotin Catalysts in Transesterification Reactions" 35 Michael Hansen "Characterization of The Surface Structure for Alumina-Boria Catalysts and Their Precursors by ^{1}H, ^{2}H, ^{11}B, and ^{27}Al Solid-State NMR Techniques" 36 Olga Lapina "Solid State ^{51}V, ^{93}Nb NMR and their Application in Catatalysis"
12.45	Lunch	
13.30 – 21.00	Excursions	
21:00	Hospitality suites	

Thursday 20 July		
09.00	Plenary Lectures: Central Hall Solid State Phys: Giorgios Papavassiliou "Magnetic and orbital nanotextures in ferromagnetic transition-metal oxides studied with NMR" BioSolids: Marc Baldus "(Membrane) protein complexes investigated by solid-state NMR spectroscopy	
10.30	Coffee Break	
11.00	Session 7A: Chair: Janez Dolinsek Solid State Physics 1: Claude Berthier "High-field NMR studies of field-induced phase transitions in low-dimensional systems" 37 Alexander Panich "Nuclear Spin Diffusion via Indirect Exchange Coupling in Semiconductors" 38 Robert Blinc "NMR of nanoclusters in perovskites and perovskite based relaxors" 39 Adriana Popa "Magnetic Resonance Investigations of Core-Shell Fe_3O_4 / PPY Nanocomposites"	Session 7B: Chair: Beat Meier Biosolids 2: Kurt Zilm "Structure Determination, Methyl Groups and Water in the Solid State NMR of Proteins" 40 Erica Wise "Solid-State NMR Studies of the Protein and Protein-Mineral Interface of Bone" 41 David Middleton "Solid-state NMR methods for guiding the design of amyloid inhibitors" 42 Henrike Heise "Investigating the 3D structural organization of full-length alpha synuclein fibrils by solid-state NMR"
12.45	Lunch	
14.15	Session 8A: Chair: David Neuhaus Bio-Macromolecules 1: Gerhard Wagner "NMR methods for studies of large proteins and their application to problems of protein biosynthesis." 43 Rolf Boelens "NMR studies on structure and dynamics in DNA repair" 44 Gerhard Wider "Fully automated backbone resonance assignments in proteins using automatic projection spectroscopy (APSY)" 45 Lars Kuhn "Pulse-Labeled Photo-CIDNP NMR Characterization of Residual Structure in the Denatured State of the 'Trp-Cage' Protein"	Session 8B: Chair: Simon Duckett Catalysis 2: John Brown "NMR in the service of asymmetric catalysis" 46 Ruth Gschwind "Structure Identification of Precatalytic Phosphoramidite Copper Complexes in Solution" 47 Paul Elliot "Using parahydrogen to study catalytic reactions" 48 David Doty "Progress on a 4-channel 3 mm CryoMAS Probe for High Fields with Auto Sample Exchange"
16.00	Tea Break	
16.30	Poster Session 2	
17:00	Oxford Instruments Vendor presentations: Central Hall	
18:00	JEOL Vendor presentations: Central Hall	
19:00	Remove posters	
20.00	Conference Dinner – Railway Museum	

Friday 21 July		
09.00	Session 9A: Chair: Geoffrey Bodenhausen Frontiers: Yishay Manassen "Noise spectroscopy of a single electron spin" 49 Stephan Appelt "Mobile chemical analysis by ultrahigh-resolution NMR spectroscopy in the Earths magnetic field" 50 Guilhem Pages "PFG NMR with a chromatographic phase: first steps towards understanding the chromatographic process" 51 Robert Prance "Electric Field NMR a New Technique"	Session 9B: Chair: David Neuhaus Bio-Macromolecules 2: Frederic Allain "NMR of protein-RNA complexes: Shape and sequence-specific recognition" 52 Bernd Simon "NMR approaches for structural analysis of multi-domain proteins and protein complexes" 53 Janina Buck "Kinetic Investigations of Ligand-Induced Riboswitch-Folding by NMR" 54 Miquel Pons "Phosphatase Oligomerization Studied by ^{15}N NMR Relaxation and Protein Induced Xenon Shifts: Cosolvent Effects"
10.45	Coffee Break	
11.15	Plenary Lectures: Central Hall Frontiers: Dan Rugar "Nuclear Spin Detection and Imaging by Magnetic Resonance Force Microscopy" Bio-macromolecules: Peter Wright "Excited states and (NMR) relaxation: Linking protein dynamics to enzyme catalysis"	
12.45	Close of conference	
13.00	Lunch	
14.00	Departure	