

<b>MONDAY 12<sup>th</sup> APRIL</b>		
<b>Session Chair: Damien Murphy</b>		
14.00 – 14.10	Emma Richards Christiane Timmel	Conference Welcome
<b>14.10 – 14.50 Plenary</b>	<b>Emma Raven University of Bristol</b>	<b>The role of heme in biology – from catalysis to regulation</b>
14.50 – 15.00	Break	
<b>Session Chair: Eric McInnes</b>		
15.00 – 15.40 Q&A Session	Sonia Chhabra	In situ EPR identification of active sites in FeNC catalysts for the oxygen reduction reaction and mechanism underlying Cr/PNP based ethylene tetramerisation catalysis
	Joyashish Debgupta	EPR Investigation of the Effect of Chemical Modification on the Charge Carrier Trapping in TiO <sub>2</sub> Nanoparticles
	Claudia Tait	EPR characterisation of a doped organic semiconductor
	Marcus Giansiracusa	EPR verified metallocenate derivatives of Mn(I), Fe(I), Co(I)
	Michal Zalibera	Toward Visible Light-Activated Molecular Grippers
	Gunnar Jeschke	Ensemble modelling of intrinsically disordered protein domains with EPR-derived distance distributions: The case of hnRNP A1
	Hassane EL Mkami	High sensitivity Gd <sup>3+</sup> - Gd <sup>3+</sup> EPR distance measurements that eliminate artefacts seen at short distances
	Sergei Dzuba	The Structure of Lipid Rafts in Model Biological Membranes by DEER of Spin-Labeled Cholesterol Analog
	Hannah Russell	DEER and RIDME Measurements of the Nitroxide-Spin Labelled Copper-Bound Amine Oxidase Homodimer from <i>Arthrobacter Globiformis</i>
Laura Galazzo	Nanodiscs or not nanodiscs? Conformational plasticity of an ABC exporter in different environments probed by EPR	
15.50 – 16.10	Break	
16.10 – 16.20	Jörg Wrachtrup	Bruker Thesis Prize Laudatio
<b>16.20 – 17.00 Bruker Thesis</b>	<b>Nabeel Aslam</b>	<b>Nanoscale NMR with a quantum sensor in diamond</b>
17.00 – 17.20	Break	
17.20 – 17.30	Eric McInnes	Bruker Prize Laudatio
<b>17.30 – 18.20 Bruker Prize</b>	<b>David Collison</b>	<b>The attraction of unpaired electrons</b>

<b>TUESDAY 13<sup>th</sup> APRIL</b>		
<b>Session Chair: tba</b>		
14.00 – 14.10	Emma Richards	Session Welcome
14.10 – 14.50 <b>Plenary</b>	<b>Roberta Sessoli</b> <i>University of Florence</i>	<b>Magnetic molecules in quantum nanoscience</b>
14.50 – 15.00	Break	
<b>Session Chair: Bela Bode</b>		
15.00 – 15.40 Q&A session	Martina Huber	Determining Amyloid Oligomerization with Standard and High-Field EPR
	Bruno Guigliarelli	Probing H-bond Network Changes in Molybdenum Enzymes Through EPR Analysis of Intercenter Magnetic Coupling
	Alistair Fielding	Selective spin labelling of surface cysteines using a bromoacrylaldehyde spin label
	Maxie Roessler	Using a chimeric respiratory chain and EPR spectroscopy to determine the origin of semiquinone species previously assigned to mitochondrial complex I
	Juliane Stehle	Intracellular Protein-Lipid Interactions Studied by Rapid-Scan Electron Paramagnetic Resonance Spectroscopy
	Stephan Pribitzer	Determining electron–nucleus distances and Fermi contact couplings from ENDOR spectra
	Daniel Klose	Resolving small distance variations by single-molecule FRET & EPR spectroscopy using rotamer libraries
	Aharon Blank	The Potential of Pulsed Electron Spin Resonance for Tooth-based Retrospective Biodosimetry
	Michael Taylor	Investigating the elusive oxygen donor copper site within a protein type scaffold
	Rachel Haywood	Interaction between 694nm red (ruby) laser photons and a static magnetic field – artefact or evidence for photon charge and mass?
15.50 – 16.10	Break	
16.10 – 16.20	Sandrine Heutz	Bruker Thesis Prize Laudatio
16.20 – 17.00 <b>Bruker Thesis</b>	<b>Daphné Lubert-Perquel</b>	<b>Combining Film Design and Spectroscopic Strategies to Elucidate Triplet Dynamics in Molecular Systems</b>
17.00 – 17.20	Break	
17.20 – 17.30	Christiane Timmel	Bruker Prize Laudatio
17.30 – 18.20 <b>Bruker Prize</b>	<b>Michael Wasielewski</b>	<b>Exploiting Photogenerated Radical Pairs as Electron Spin Qubits for Quantum Information Applications</b>

<b>WEDNESDAY 14<sup>th</sup> APRIL</b>		
<b>Session Chair: Andrea Folli</b>		
14.00 – 14.10	Emma Richards	Session Welcome
14.10 – 14.40 <b>Invited</b>	<b>Adrian Porch</b> <i>Cardiff University</i>	<b>Microwave Cavities for Materials Characterisation</b>
14.40 – 15.10 <b>IES YIA Prize</b>	<b>Sabine Richert</b> <i>Freiburg University</i>	<b>Exploring photogenerated molecular quartet states as spin qubits</b>
15.10 – 15.30	Break	
<b>Session Chair: Gunnar Jeschke</b>		
15.30 – 16.30 Q&A Session	Luis Fábregas Ibáñez	How do we separate a seemingly inseparable background?
	Ilya Kuprov	Training and reverse-engineering neural nets on EPR simulations
	Dima Svistunenko	Tyrosine and Tryptophan Radicals EPR Spectra Simulation - TRSSA on the EasySpin platform
	Thomas Schmidt	Two-Dimensional Reconstruction of Distance Distributions in Double Electron-Electron EPR Spectroscopy via Singular Value Decomposition
	Anna Matveeva	S/N additivity of Integral Mellin transfer as way to improvement of PDS experimental scheme
	Andriy Marko	Simulation of nitrogen nuclear spin magnetization of liquid solved nitroxides
	Andreas Gottscholl	Room Temperature Coherent Control of Spin Defects in hexagonal Boron Nitride
	Jannick Möser	Room-temperature formation of coherent spin pairs at silicon dangling bonds
	Matvey Fedin	Blatter Radical-Grafted Mesoporous Silica studied by EPR: Long Electron Relaxation Times and Opportunities for Spin Manipulation at Ambient Conditions
	Shang-Da Jiang	Quantum Phase Interference in a Fullerene-Based Electron Triplet Molecular Qutrit
	Arnau Bertran	Light-Induced Triplet-Triplet Electron Resonance Spectroscopy
Michael Slota	Magnetic Edges and Coherence in Molecular Graphene Nanoribbons	
16.30 – 16.50	Break	
<b>Session Chair: Ilya Kuprov</b>		
16.50 – 17.20 <b>Invited</b>	<b>Art van der Est</b> <i>Brock University</i>	<b>Spin Polarized Triplet States and Radical Pair States in Heliobacterial Reaction Centres</b>
17.20 – 18.00 <b>Plenary</b>	<b>Stephen Hill</b> <i>NHMFL</i>	<b>Controlling Electron-Nuclear Spin Couplings in Molecular Magnets</b>

<b>THURSDAY 15<sup>th</sup> APRIL</b>		
<b>Session Chair: Enrica Bordignon</b>		
14.00 – 14.10	Emma Richards	Session Welcome
14.10 – 14.40 <b>Invited</b>	<b>Christos Pliotas</b> <i>University of Leeds</i>	<b>Using pulsed-EPR in the analysis of integral membrane proteins</b>
14.40 – 15.10 <b>Invited</b>	<b>Bas de Bruin</b> <i>Amsterdam University</i>	<b>Catalytic Metalloradical Reactivity of Carbenes &amp; Nitrenes</b>
15.10 – 15.30	Break	
<b>Session Chair: Olav Schiemann</b>		
15.30 – 16.30 Q&A Session	Graham Smith	Very High Sensitivity EPR – The HIPER upgrade
	Mantas Šimėnas	A sensitivity leap for X-band EPR using a probehead with a cryogenic preamplifier
	Oscar Kennedy	YBCO microresonators with ~50pL mode volume for high sensitivity EPR
	Silvio Künstner	Rapid Scan Electron Paramagnetic Resonance with EPR-on-a-Chip Sensors
	Lorenzo Tesi	High Frequency ESR: New Tools for Investigating Thin Layers of Molecular Magnets
	Markus Teucher	Milliwatt DEER on fast relaxing spin species
	Jean-Baptiste Verstraete	A chorus of chirps for broadband ESR spectroscopy
	Thomas Lohmiller	Accurate Determination of Exchange Interactions in Single-Chain Magnets and Other Multi-Spin Complexes by THz-EPR
	Sergey Tumanov	High-field EPR as a structural method for copper(II)-nitroxide magnetic compounds
	Sergey Veber	Easy-Plane to Easy-Axis Anisotropy Switching in a Co(II) Single-Ion Magnet Triggered by Diamagnetic Lattice
Vasily Oganesyanyan	SpinMolDyn – a fast and efficient software suite for prediction of EPR spectra from Molecular Dynamics simulations	
16.30 – 16.50	Break	
<b>Session Chair: Thomas Prisner</b>		
16.50 – 17.20 <b>Invited</b>	<b>Elizaveta Suturina</b> <i>University of Bath</i>	<b>Role of magnetic anisotropy in paramagnetic relaxation enhancement</b>
17.20 – 18.00 <b>Plenary</b>	<b>Josh Telser</b> <i>Roosevelt University</i>	<b>EPR into the Almost Optical Region: Applications to Coordination Complexes</b>

<b>FRIDAY 16<sup>th</sup> APRIL</b>		
<b>Session Chair: tba</b>		
14.00 – 14.10	Emma Richards	Session Welcome
14.10 – 15.20	See abstract booklet	
<b>Poster Session</b>		
15.20 – 15.30	Break	
<b>Session Chair: David Collison</b>		
15.30 – 17.30 <b>Jeol talks</b>	<b>Nino Wili</b> <i>ETH Zurich</i>	Dressing up electron spins to (un)lock their potential: Application to distance measurements between trityl radicals
	<b>Rajesh Patel</b> <i>Warwick University</i>	Sub-nanotesla Magnetometry with a Fibre-Coupled Diamond Sensor
	<b>Joseph McPeak</b> <i>Helmholtz-Zentrum Berlin für Materialien und Energie</i>	Highly Resolved Hyperfine Lines in Organic Radicals using Rapid-Scan Electron Paramagnetic Resonance
	<b>Samuel Jahn</b> <i>University of Washington</i>	Electron Spin Decoherence In Deuterated Environments
	<b>Annalisa Pierro</b> <i>Institute of Microbiology, CNRS</i>	Nitroxide-based SDSL-EPR for the study of protein dynamics in living cells
	<b>Katherine Richardson</b> <i>Queen Mary Uni. London</i>	Functional basis of electron transport within photosynthetic complex I
17.30 – 17.40	Janet Lovett	2022 Conference Details
17.40 – 17.50	Emma Richards	2021 Conference Close