Dalton 2023 18-20 April 2023, Coventry, UK

OVERVIEW PROGRAMME

13:00	8 April 2023 Registration						
11:30	Chairs' welcome (OC1.05 Lecture Theatre)						
11:30	AWARD LECTURE (AL1) - Session Chair; Sam de Visser (OC1.05 Lecture Theatre) Texas-inspired metallodrug discovery efforts Jonathan Sessier, The University of Texas at Austin, USA						
12:15	PLENARY (PL1) - Session Chair: David Liptrot (OC1.05 Lecture Theatre) The new chemistry of old PN cages Saurabh Chitnis, Dalhousie University, Canada						
13:00	Lunch - Rootes Restaurant						
Theme	Inorganic Biochemistry	Inorganic Reaction Mechanisms	Coordination and Organometallic Chemistry	Main Group Chemistry	Sustainability		
Room	OC1.04 (1st floor)	OC1.06 (1st floor)	OC1.05 (1st floor)	OCO.04 (Ground floor)	OCO.02 (Ground Floor)		
Session chair	Luisa Ciano	lan Fairlamb	Richard Layfield	Cath Weetman	Matthias Stein		
14:00	Exquisite fine-tuning of the active-site electronic structure in [FeFe] hydrogenases James Birrell, Univeristy of Essex, UK (OA1)	Oxidative dehalogenation of halophenols by high-valent nonheme iron(IV)-Oxo intermediates CV Sastri, Indian institute of Technology Guwahati, India (OB1)		Probing the Active Encounter Complex in Frustrated Lewis Pair Chemistry Andrew Jupp, University of Birmingham, UK (OD1)			
14:15	Concerted or sequential: Time-resolved methods to probe proton coupled electron transfer in [NIFe] hydgenases Dmitry Sedush, University of Leicester, UK (OA2)	Using parametrised descriptor-outcome modelling and in-situ FTIR to gain mechanistic insight to the Pauson-Khand reaction Theo Tanner, University of York, UK (O82)	Coaxing Cobalt With 'PNP' Ligands Adam Carrick, Durham University, UK (OC2)	A Zinti Cluster for Transition Metal-Free Catalysis: C=O Bond Reductions Bono van Ijzendoorn, University of Manchester, UK (OD2)	Controlled biocatalytic synthesis of metal nanoparticle-enzyme hybrids: demonstration for catalytic hydrogen-driven NADH or flavin recycling Lucy Browne, University of Oxford, UK (OE1)		
14:30	An electrochemical flow cell allows in situ X-ray spectroscopy of sensitive metalloproteins Rufus Frew, University of Leicester, UK (OA3)	Intemolecular primary C-H oxidation catalyzed by bioinspired manganese catalyst Siu-Chung Chan, Universitat de Girona, Spain (OB3)	Coordination chemistry of WSCI4 and WSCI4 with the development of precursors for WE2 thin film deposition Victoria Greenacre, University of Southampton, UK (OC3)	Activation Modes of Boron Lewis Acid Catalysts with Nitrogen-Containing Substrates Yara van Ingen, Cardiff University, UK (OD3)	Asymmetric transfer hydrogenation of ketones using ruthenium(II) complexes Martin Wills, University of Warwick, UK (OE2)		
14:45	Using in situ spectroscopic methods to study the electron relay and active site interplay in [FeFe] hydrogenases Zehui Duan, University of Oxford, UK (OA4)	Investigating the mechanism and origins of selectivity in palladium-catalysed carbene insertion cross-coupling reactions Paul Dingwall, Queen's University Belfast, UK (OB4)	Copper(I) boryl anions supported by ring- expanded N-heterocyclic carbenes: breaking the cycle David Liptrot, University of Bath, UK (OC4)	Designing Highly Electronically Tuneable FLPs Aisling Ropers, University of Oxford, UK (OD4)	Borates versus aluminates: electrolyte salts for sodium-ion batteries Darren Ould, University of Cambridge, UK (OE3)		
15:00	Unraveiling the reaction mechanism of ortho-hydroxylation of phenolic substrates by coupled-binuclear copper enzyme tyrosinase (Ty) Agnieszka Stańczak, Czech Academy of Sciences, Czech Republic (OAS)	Investigating the role of magic size clusters in the growth of InP quantum dots Theodore Gazis, Keele University, UK (OBS)	Design of High-relaxivity MRI nanoprobes for multimodal imaging Thomas Price, King's College London, UK (OCS)	Planar Bismuth Triamides: A Tunable Platform for Main Group Lewis Acidity and Polymerization Catalysis Tyler Hannah, Dalhousie University, Canada (ODS)	Homogeneous (De)hydrogenative Catalysis for A Circular Economy Amit Kumar, University of St Andrews, UK (OE4)		
15:15	Heme Oxygenase-1 (HO-1) activity in human-derived macrophages with an aminocoumarin-porphyrin FRET 'breakapart' probe Saul Cooper, Imperial College London, UK (OA6)	Mechanisms of the reactivity of N- heterocyclic carbene supported copper(I) tetranides Rex Charman, University of Bath, UK (OB6)	A New Vision for the Electronic and Molecular Structures of Inorganic Molecules Robert Deeth, University of Warwick, UK (OC6)	Weakly coordinating chiral anions Richard Collins, Imperial College London, UK (OD6)	Mechanistic insights of metal oxide mediated photocatalytic and photoelectrochemical C-C coupling using visible light Richard Douthwalte, University of York, UK (OES)		
15:30		-	Refreshments				
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Session chair	Justin Bradley	Aidan McDonald	Adrian Chapman	Andrew Jupp	Georgia Orton		
16:00	Turn On' lanthanide fluorescent probes for imaging in hypoxic environments Charlie Sims, Oxford University, UK (OA7)	Understanding reactions of nickel(0) relevant to cross-coupling catalysis	Electrochemically Switched 2nd Order Non-Linear Optical Responses in Aryllmido-Polyoxometalath Derivatives Bethany Hood, University of East Anglia, UK (OC7)	Exploring the Chemistry of the Cyaphide Ion Eric Yang, University of Oxford, UK (OD7)	N-heterocyclic Phosphines as Pre- catalysts for the Selective Degradation of Polyllactic acid) Laura English, University of Bath, UK (OE8)		
16:15	Quantum dots for targeted multimodal MRI/MIR fluorescence imaging of gibolastoma Kanik Chelani, King's College London, UK (OA8)	David Nelson, University of Strathclyde, UK (087)	Enhancing the Air Stability of Dimolybdenum Paddlewheel Complexes: Redox Tuning through Fluorine Substituents Luke Wilkinson, University of York, UK (OC8)	Phosphabora-[3]Dendralenes: The Next Polycyclic Precursors Vesela Zarkina, University of Edinburgh, UK (OD8)	Automating Inorganic Chemistry Nicola Bell, University of Glasgow, UK (OE9)		
16:30	Versatile diphosphine platforms for molecular radiopharmaceuticals based on technetium 99m and rhenium 188 Michelle Ma, King's College London, UK (OA9)	A fluorspar alternative? - journey towards a terminal calcium monofluoride Mathias Ellwanger, University of Oxford, UK (OB9)	Germole-ligated Organometallic Lanthanide Single-Molecule Magnets Siddhartha De, University of Sussex, UK (OC9)	Main group gallyl and gallylene complexes: gallane dehydrogenation, "redox" isomerisation, and small molecule activation Louis Morris, University of Oxford, UK (OD9)	Tris(β-ketoiminate) Allii Compounds as Aluminium Oxide Precursors Erica Faria, University College London, UK (OE11)		
16:45	Diphosphine bioconjugates via Pt(0)- catalysed hydrophosphination – a versatile chelator platform for Tc-99m and Re-188 radiolabelling of biomolecules Rachel Nuttall, King's College London, UK (OA10)	Catalyst speciation and deactivation in the Ru-mediated meyer-schuster rearrangement of ethynyl-β-ionol for vitamin A production Asad Saib, University of Bath, UK (OB10)	How to make substituted pentalenide ligands less exotic Niko Jenek, University of Bath, UK (OC10)	Reaction of Zn-H bonds with Transition Metal(I) fragments Marina Perez Jimenez, Imperial College London, UK (OD10)	Bn2DT3A complexes with Ga-68 and Cu- 64 for application in PET – radiolabelling and biological evaluation Veronika Rosecker, King's College London, UK (OE12)		

17:00	Functional and structural diversity in thiosemicarbazone complexes and related fluorescent and radiolabelled molecules Sofia Pascu, University of Bath, UK (OA11)	Computational Studies on the Mechanistic Diversity of Rhodium- and Iridium-Catalysed Amine-Borane Dehydropolymerisation Lia Sotorrios, Heriot-Watt University, UK (OB11)	Synthesis of 3d transition metal(II) bis- phospholyl complexes and reduction to phosphametallocene anions Corentin Magnoux, University of Manchester, UK (OC11)	Identity of Group 1 Metal in Stabilisation of Reduced Mg-Diamide Han-Ying Liu, University of Bath, UK (OD11)	How to Publish with Impact. Sally Howells, Executive Editor, Royal	
17:15		A combined Heterogeneously/Homogeneously Catalysed Approach to the Direct Hydrogenation of Captured Carbon Dioxide Matthew Quesne, Cardiff University, UK (OB12)	Properties and Applications of Gold Complexes with Multifunctional L- Shaped N-Heterocyclic Carbenes Paul Davies, University of Birmingham, UK (OC12)	Structure and Electronics of Symmetrically Diboron-Doped Acenes – From 1,4-Diboranaphtalene to 6,13- Diborapentacene Merle Arrowsmith, Universität Würzburg, Germany (OD12)	Society of Chemstry, UK (OE21)	
17:30-18:00	Committee meeting IBDG	Committee meeting IRMG	Committee meeting CODG	Committee meeting MGDG		
17:30	Dinner - Rootes Resturant					
19:00	Poster session with drinks reception (Oculus Building)					
22:00	Close					

Wednesday 19 April 2023

Wednesday	19 April 2023					
09:00	PLENARY (PL2) - Session Chair: Kylle Vincent (OC1.05 Lecture Theatre) Monitoring of electrocatalytic reactions Jana Rolithova, Radboud University Nijmegen, Netherlands					
09:45	AWARD LECTURE (AL2) - Session Chair: John Fielden (OCI.05 Lecture Theatre) Oxidative addition and multiple bonds in aluminium chemistry Michael Cowley, University of Edinburgh, UK					
10:30			Refreshments			
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Session chair	Philip Ash	James Walton	Nicola Bell	Michael Cowley	Darren Willcox	
11:00	Semi-synthetic and artificial metalloenzymes for energy conversion: from catalytic insight to catalyst design	Exploiting Cobalt[II] Amide Complexes in Deprotonative Metalation of Fluoroaromatic Molecules Alessandra Logallo, University of Bern, Switzerland (OB13)	Probing the donor strength of Yldiide ligands: synthesis, structure and reactivity of rhodium complexes with a PCyldeN pincer ligand Sébastien Lapointe, Ruhr-Universitat Bochum, Germany (OC13)	C-H bond activation and higher-order cycloaddition reactions between polyolefins and a dinuclear main-group ambiphile Robert Kretschmer, Chemnitz University of Technology, Germany (OD13)	Influence of equatorial ligand fields on magnetic relaxation pathways of dysprosocenium cations Sophie Corner, University of Manchester, UK (OE13)	
11:15	Patricia Rodiguez-Macia, University of Oxford, UK (OA13)	High-valent metal-halides for hydrocarbon oxidation and halogenation Aidan McDonald, Trinity College Dublin, Ireland (OB14)	Imido-Functionalised Polyoxometalates for Photonics Claire Jones, University of East Anglia, UK (OC14)	A Quantum Chemical Study of Base- Coordinated Dialumenes Keelan Byrne, Maynooth University, Ireland (0D14)	Synthesis and Reactivity of Lanthanide(II Hydrides Georgia Richardson, Victoria University o Wellington, New Zealand (OE14)	
11:30	Cooperative Chemobio-Catalysts for Hydrogenation Reactions Tim Sudmeler, University of Oxford, UK (OA15)	Computational Design of a Heterogeneous Catalyst for Efficient Dehydrogenation of Alcohols: A Pincer- based Metal-Organic Framework Bengt Tegner, University of Liverpool, UK (OB15)	Self-Assembly of Benzimidazole Derived NHC Ligands and Coinage ions (Agl, Cul, Aul) to Organometallic Cages and Their Unusual Transmetalation Chemistry Rajeev Nishad, King's College London, UK (OC16)	Synthesis and Reactivity of the Indyl Anion Tylah Sweet, Victoria University of Wellington, New Zealand (OD15)	Adventures in alkaline earth and rare earth chemistry: ligand design, catalysis and low-oxidation state chemistry Fabrizio Ortu, University of Leicester, UK (OE1S)	
11:45	Electronic structure and bonding in heterometallic clusters Daniel Wilson, King's College London, UK (OA16)	From cradle to grave – a combined kinetic, mechanistic and structural study of palladacycles in Suzuki-Miyaura reactions David Husbands, University of York, UK (OB16)	Sequential Molecular Surface Modification of Cuprous Oxide Nanoparticles by Organometallic Reactivity Bradley Cowie, University of Oxford, UK (OC17)	An Acyclic Aluminyl Anion Ross Jackson, University of Bath, UK (OD16)	Computational Mechanistic Studies on Iron-Catalysed Dehydrogenation of Amines Involving Cydopentadienone Iron Complexes. Joannes Peters, Stockholm University, Sweden (OE16)	
12:00	Exploring the Design of Copper Artificial Metalloenzymes Eva Klemencic, University of Edinburgh, UK (OA17)	Hydrogen peroxide reduction to dioxygen on a nonheme iron centre. A computational study Henrik Wong, University of Manchester, UK (OB17)		Synthesis and Reactivity of a Homoleptic Magnesium Bis-Aluminyl Liam Griffin, University of Oxford, UK (OD17)	Making science greener: Community perspectives & solutions Clare Dyer-Smith, Royal Society of Chemisty, UK (0E17)	
12:15			Lunch - Rootes Restaurant			
13:45	SUSTAINABILITY - Session Chair: UII Hintermair (CC1.05 Lecture Theatre) Activation of Small Molecules: Can Boron act as a Transition Metal? Holger Braunschweig, Universität Würzburg, Germany					
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Session chair	Anna Peacock	CV Sastri	Maxie Roessler	Robert Kretschmer	John Slattery	
14:30	How universal is the role of tyrosine in oxygen activation by ferritin? Justin Bradley, University of East Anglia, UK (OA18)	Synthesis, Size Effects and Photoredox Reactivity of Metal-oxo Clusters Sebastian Pike, University of Warwick, UK (OB18)	sigma-Aromatic Metal-Metal Bonding in Molecular Actinide Chemistry Steve Liddle, University of Manchester, UK (OC18)	Development of Main Group NHC complexes for stabilisation of Low- Oxidation State Group 2 and 13 elements Catherine Weetman, University of Strathclyde, UK (OD18)	Flame retardant Phosphonate- functionalised Poly(propylene)s Alex Evans, University of Oxford, UK (OE18)	
14:45	Iron Oxidation and Detoxification in Human Mitochondrial Ferritin Zinnia Bugg, University of East Anglia, UK (OA19)		In-Crystallo Lattice Adaptivity Triggered by Solid/Gas Reactions of Group 7 Cationic Pincer Complexes Joe Goodall, University of York, UK (OC19)	Structural and dimensional control of porphyrin capsules using group 15 tris[3- pyridyl] linkers Álvaro García-Romero, Universidad de Valladolid, Spain (OD19)	Probing the Speciation and Electronic Structure of Organozinc Reagents using 3 ray Spectroscopy Lewis Parker, University of Reading, UK (OE19)	
15:00	Stabilisation of the RirA [4Fe-4S] cluster results in loss of iron-sensing function Elizabeth Gray, University of East Anglia, UK (OA20)	Mechanistic investigations of CO homologation in iron terphenyl complexes Nathan Coles, University of Nottingham, UK (OB20)	Synthesis, magnetic properties, and reactivity of lanthanide complexes featuring bulky silyhamide ligands Jack Emerson-King, University of Manchester, UK (OC20)	Comparing carbon disulfide activation reactions of Terphenyl-stabilized potassium phosphides and potassium phosphides and potassium phosphinophosphides Lillan Sophie Szych, University of Oxford, UK (OD20)	Small molecule activation with titanium 'POCOP' pincer complexes Leah Webster, Imperial College London, UK (OEZO)	

Theme Inorganic Biochemistry Inorganic Reaction Mechanisms Coordination and Organometallic Chemistry Sustainability OCI.04 (1st floor) OCI.05 (1s	15:15	Consequences of fatty acid-mediated changes in blood plasma zinc speciation Sirilata Polepalli, University of Warwick, UK (GA21)	SNAr Reactions of [(η6 arene)RuCp]+ Complexes and Catalysis Via Arene Exchange James Walton, Durham University, UK (0821)	Non-Covalent Interactions in Organic and Organometallic Crystals Matthias Stein, Max Planck Institute for Dynamics of Complex Technical Systems, Germany (OC21)	Li vs Na: Divergent Reaction Patterns between Organo-Lithium and -Sodium Complexes, and Ligand-catalysed Ketone/Aldehyde Methylenation Nathan Davison, Newcastle University, UK (OD21)	
Theme Inorganic Biochemistry Inorganic Reaction Mechanisms Chemistry Main Group Chemistry Sustainability OC1.04 (1st floor) OC1.05 (1st floor) OC0.04 (Ground floor) OC0.02 (Ground Floor) Session chair Patricia Rodriguez-Macia David Nelson Anbu Sellamuthu Meera Mehta Amit Kumar Colled colls as ligands for inclusion in the inorganic chemist's toolbox Anna Peacock, University of Birmingham, UK (0A22) Inviersity of Sensitive Paint Formulation on cross-coupling reactions Neil Scott, University of York, UK (0B22) Manchester, UK (0C22) Generating Evolvable, Artificial Metalloenzymes Containing Organometallic Cofactors via Ligand Corganometallic Corganometallic Corganometallic Corganometallic Corganometallic Corgan	15:30			Refreshments		
Session chair Patricia Rodriguez-Macia David Nelson Anbu Sellamuthu Meera Mehta Amit Kumar Towards New and Improved P Sensitive Paint Formulation on cross-coupling reactions on cross-coupling reactions Neil Scott, University of York, UK (OB22) Manchester, UK (OC22) Coiled coils as ligands for inclusion in the inorganic chemist's toolbox Anna Peacock, University of Birmingham, UK (OA22) Metalloenzymes Containing Organometallic Cofactors via Ligand Metalloenzymes Containing Organometallic Cofactors via Ligand Exchange Oskar James Klein, University of Cambridge, UK (OA23) Mistidine-Rich C-terminus of mycobacterial GroEL1 and its Copper of mycobacterial GroEL1 and its Copper of palladium(I) and platinum(I) Towards New and Improved P Sensitive Paint Formulation Cornal Goodwin, University of Manchester, UK (OC22) Valence Electron Configurational Isomerism in the 1-block Cornad Goodwin, University of Manchester, UK (OC22) Fri Lu, Newcastle University, UK (OD22) Coordination and activation of germanes by ruthenium diphosphine complexes Association, Laboratorie de chimile de confidence of mycobacterial GroEL1 and its Copper of palladium(I) and platinum(I) Meera Mehtal Room-Temperature Stable Electride (RoSE): Synthesis, Structure, Reactivity Eril Lu, Newcastle University, UK (OD22) Coordination and activation of germanes by ruthenium diphosphine complexes Association, Laboratorie de chimile de coordination - LCC-CNRS, France (OC23) Mistidine-Rich C-terminus of mycobacterial GroEL1 and its Copper of palladium(I) and platinum(I) Meera Mehtal (RoSE): Synthesia, Structure, Reactivity Eril Lu, Newcastle University, UK (OD22) Coordination and activation of germanes by ruthenium diphosphine complexes Associated and Cocceptation and activation of germanes by ruthenium diphosphine complexes Associated and Cocceptation and activation of germanes by ruthenium diphosphine complexes associated and Cocceptation and activation of germanes by ruthenium diphosphine complexes associated and Cocceptation and activation	Theme	Inorganic Biochemistry	Inorganic Reaction Mechanisms		Main Group Chemistry	Sustainability
Coiled coils as ligands for inclusion in the inorganic chemist's toolbox Anna Peacock, University of Birmingham, UK (OA22) Generating Evolvable, Artificial Metallocenzymes Containing Organometallic Cofactors via Ligand Exchange Oskar James Kien, University of Cambridge, UK (OA23) Oxazolidinones vs. Piperazines: The temperature dependant conundrum for the cycloadidition of azirdines and CO2 Ryan Lewis, Sheffield Hallam University, UK (OB23) National Peacock, University of Cambridge, UK (OA23) Valence Electron Configurational Isomerism in the f-block Cornad Goodwin, University of Eril LU, Newcastle University, UK (OD22) First U, Newcastle University, UK (OD22) Coordination and activation of germanes by ruthenium diphosphine complexes Aswin Chandran, Laboratorie de chime de coordination - LCC-CNRS, France (OC23) Histidine-Rich C-terminus of mycobacterial GroEL1 and its Copper or part of palladium(I) and platinum(I) and plati		OC1.04 (1st floor)	OC1.06 (1st floor)	OC1.05 (1st floor)	OCO.04 (Ground floor)	OCO.02 (Ground Floor)
Colled coils as ligands for inclusion in the inorganic chemist's toolbox. Anna Peacock, University of Birmingham, UK (0A22) university of Birmingham, UK (0A22) university of Fork, UK (0B22) university of Manchester, UK (0C22) university of	Session chair	Patricia Rodriguez-Macia	David Nelson	Anbu Sellamuthu	Meera Mehta	Amit Kumar
Metalloenzymes Containing Organometalic Cofactors via Ligand Exchange Oskar James Klein, University of Cambridge, UK (OA23) Histidine-Rich C-terminus of mycobacterial GroEL1 and its Copper Stability and C-H bond activation reactions of palladium(I) and platinum(I) Stability and C-H bond activation reactions of palladium(I) and platinum(I) Ocordination and activation of germanes by ruthenlum diphosphine complexes by ruthenlum diphosphine complexes by ruthenlum diphosphine complexes for arene functionalisation Andreu Tortajada Navarro, University of Bern, Switzerland (OD23) Gromplexes: Heazgonal Pia Geometries and Hydrogen Act Andreas Phanopoulos, Imperial London, UK (OE24) Unsubstituted trispyrazolylborate lanthanide complexes: reduction to lanthanide complexes lanthanide complexes: reduction to lanthanide complexes: reduction to lanthanide complexes: reduction of lanthanide complexes: reduction of lanthanide complexes: reduction of lanthanide complexes: reduction of lanthanide complexes lanthanide complexes la	16:00	inorganic chemist's toolbox Anna Peacock, University of Birmingham,	on cross-coupling reactions	Isomerism in the f-block Conrad Goodwin, University of	(RoSE): Synthesis, Structure, Reactivity	Towards New and Improved Pressure Sensitive Paint Formulations for Aerodynamic Measurements Elliott Nunn, University of Manchester, UK (OE22)
Histidine-Rich C-terminus of mycobacterial GroEL1 and its Copper m	16:15	Metalloenzymes Containing Organometallic Cofactors via Ligand Exchange Oskar James Klein, University of	temperature dependant conundrum for the cycloaddition of aziridines and CO2 Ryan Lewis, Sheffield Hallam University,	by ruthenium diphosphine complexes Aswin Chandran, Laboratoire de chimie de	for arene functionalisation Andreu Tortajada Navarro, University of	Group 10 Heterometallic Hydride Complexes: Hexagonal Planar Geometries and Hydrogen Activation Andreas Phanopoulos, Imperial College London, UK (0E24)
Anna Rola, University of Wrocław, Poland (OA24) Adrian Chaplin, University of Warwick, UK (OB24) Adrian Chaplin, University of Glasgow, UK (OC24) Adrian Chaplin, University of Glasgow, UK (OC24) Alex Bowles, University of Glasgow, (OD24)	16:30	mycobacterial GroEL1 and its Copper Complex – the Impact of Point Mutations Anna Rola, University of Wrocław, Poland	reactions of palladium(I) and platinum(I) metalloradicals Adrian Chaplin, University of Warwick, UK	lanthanide complexes: reduction to Ln(II), and synthetic routes to radical- bridged heterobimetallics Tajrian Chowdhury, University of Glasgow,	Valent Alkaline Earth Metal Complexes Alex Bowles, University of Leicester.UK	
AWARD LECTURE (AL3) - Session Chair: Nick Le Brun (OC1.05 Lecture Theatre) Oxygen-Sensing Enzymes in Plants and Animals Emily Flashman, University of Oxford, UK	16:45	Oxygen-Sensing Enzymes in Plants and Animals				
PLENARY (PL3) - Session Chair: Joseph Wright (OC1.05 Lecture Theatre) 17:30 Making supramolecular assemblies that could be used in quantum information processing Richard Winpenny, University of Manchester, UK	17:30	Making supramolecular assemblies that could be used in quantum information processing				
18:15 Close 19:00 Conference dinner - Panorama Suite (Rootes Building)						

Thursday 20 April 2023

09:00	PLENARY (PLA) - Session Chair: Caudual Bilndauer (CCL.O.5 Lecture Theatre) Mechanistic insights into lob- and electro-catalytic reactions from EPR spectroscopy Maxie Roessier, Imperial College London, UK					
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Session chair	Isolda Romero-Canelon	Amanda Jarvis	Gill Reid	Erli Lu	Sebastian Pike	
09:45	Bacterial metallopeptidases as medicinal targets – coordination chemistry of possible metal-based inhibition Paulina Potok, University of Wroclaw, Poland (OA25)	Shining a new light on photoredox catalysis Daniel Scott, University of Bath, UK (OB25)	18F-labelling via halide exchange reactions on main group and transition metal based-chelates for PET applications Danielle Runacres, University of Southampton, UK (OC25)	Inducing nucleophilic reactivity at beryllium with an aluminyl ligand Josef Boronski, University of Oxford, UK (OD25)	Synthesis of new gold(I) complexes containing an ortho- trifluoromethylphenyl phosphine. Hydroamination catalysis. Itxaso Bustos, University of the Basque Country, Spain (OE25)	
10:00	The structural activity and anion impact of quinolinyl Ag(I) complexes: molecular docking, in vitro biological studies and their interactions with biomolecules Adesola Abimbola Adeleke, Olabisi Onabanjo University Ago-lwoye, Nigeria (OA26)	The Importance of Water in Homogeneous Ruthenium Catalysed Aerobic Olefin Epoxidation Mark Muldoon, Queen's University of Belfast, UK (0826)	Cobalt Schiff-Base Complexes as Catalysts for Multi-electron Reductions John Fielden, Lancaster University, UK (OC26)	Beryllium-centred C-H Activation of Benzene Kyle Pearce, University of Bath, UK (OD26)	Synthetic Iron Chemistry with 2-type Ligands Laura Grose, University of Manchester, UK (OE26)	
10:15	Exploring the antimicrobial activity of cobalt(III) picolinamide complexes Rianne Lord, University of East Anglia (OA27)	Unveiling Structure-Property Correlations in Alkali-Metal Nickelates Andryj Borys, Universität Bern, Switzerland (OB27)	Recent Adventures in Lanthanide and Actinide Silicon Chemistry David Mills, University of Manchester, UK (OC27)	Reactivity of Tetrel Functionalised Heptapnictogen Clusters Towards Heteroallenes William Jobbins, University of Manchester, UK (OD27)	Ta/Ir Heterobimetallics Supported on Mesoporous Silica Surface for C-H Bond Activation Rosalyn Falconer, University of British Columbia, Canada (OE27)	
10:30	Biological evaluation of homoleptic bimetallic silver(I) N-heterocyclic carbene complexes Oliver King, University of East Anglia (OA28)	Vinylic C-H activation of styrenes by an iron-aluminium complex Nikolaus Gorgas, Imperial College London, UK (OB28)	Exploring the chemistry of super-reduced uranium organometallics Luciano Barluzzi, University of Sussex, UK (OC28)	Exploring the Insertion Chemistry of Silyl Substituted Metalylenes Lewis Wales, University of Oxford, UK (OD28)	Formation, Characterisation and Disassembly of Metallosupramolecular Complexes in vacuo Niklas Geue, Manchester Institute of Biotechnology, UK (OE28)	
10:45	Refreshments					
11:10	AWARD LECTURE (AL4) - Session Chair: TBC (OC1.05 Lecture Theatre) Sequential carbon monoxide homologation with transition metal carbonyls and an aluminium (I) reductant Richard Kong, Cornell University, USA					
11:55	Closing remarks from Conference Organisers					