

# Inorganic Chemistry 2012

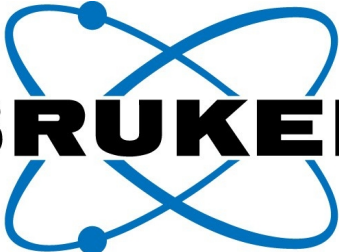
3-5 April

A Joint Meeting of Dalton Division Interest Groups

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Asynt 

  
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**Tuesday 3rd April**1.30-1.45 **L3** Welcome and Introduction: **Peter Tasker**Session Chair: **Mike George**1.45-2.30 **Cameron Jones** (Monash): "Molecular Magnesium(I) Compounds: "Bespoke" Reducing Agents for the Synthetic Chemist"2.30-3.15 **Oliver Einsle** (Freiburg): "Molecular Enzymology of N<sub>2</sub> metabolism"

3.15-3.40 Tea/Coffee

Room	<b>L3</b>	<b>L4</b>	<b>L5</b>	<b>B202</b>
Chair	<b>Paddy McGowan</b>	<b>Mike Whittlesey</b>	<b>Simon Aldrich</b>	<b>David Evans</b>
3.40 - 4.00	<b>Christoph Busche</b> <i>University of Glasgow</i> "Molecular metal oxides nanoelectronics (MMOS)"	<b>David Cole-Hamilton</b> <i>University of St-Andrews</i> "Mechanisms of cooperative ligand effects in homogeneous catalysis"	<b>Merle Arrowsmith</b> <i>University of Bath</i> "Beryllium: unique chemistry of the forbidden element"	<b>Anne-K Duhme-Klair</b> <i>University of York</i> "Coordination of Cu(II) to biologically active hydrazones"
4.00 - 4.20	<b>Daniel Woodruff</b> <i>Manchester University</i> "The Synthesis, Structure and Magneto Chemistry of Transition Metal Amido Cage Complexes"	<b>Adrian Chaplin</b> <i>Warwick University</i> "Rhodium complexes containing methylene bridged diphosphine ligands: high activity intermolecular hydroacylation catalysts"	<b>Tom Wildsmith</b> <i>University of Bath</i> "Routes to the low temperature deposition of transparent conducting oxides"	<b>Suzanne Howson</b> <i>Warwick University</i> "Optically Pure, Water Soluble, Chemically Diverse Flexicates for Pharmaceutical Applications"
4.20 - 4.40	<b>Libby Gibson</b> <i>University of Nottingham</i> "Dye-sensitized Photocathodes for Tandem Solar Cells"	<b>Natalie Fey</b> <i>University of Bristol</i> "Ligand Effects on Organometallic Catalytic Cycles"	<b>Peter Portius</b> <i>Sheffield University</i> "Energetic complexes of main group elements"	<b>Charlotte Willans</b> <i>University of Leeds</i> "Cytotoxicity of Silver-N-Heterocyclic Carbene Complexes"
4.40 - 5.00	<b>Laurence Thompson</b> <i>Memorial University</i> "Bigger Ligands Lead to Bigger Polymetallic Clusters?"	<b>Jason Lynam</b> <i>University of York</i> "Ruthenium complexes for the direct C-H functionalisation of pyridine derivatives: the role of vinylidene and pyridylidene ligands"	<b>Claire Carmalt</b> <i>UCL</i> "Aerosol-assisted chemical vapor deposition of gallium and indium oxide: from precursor synthesis to gas sensors"	<b>Deogratius Jaganyi</b> <i>University of KwaZulu-Natal</i> "Understanding the role of the structural rigidity of the linker on the substitution reactions of chelated dinuclear Pt(II) complexes."
5.00 - 5.20	<b>Robin Blagg</b> <i>University of Manchester</i> "Lanthanoid Alkoxide & Thiolate Clusters: Synthesis, Structure & Magnetism"	<b>John Slattery</b> <i>University of York</i> "Ruthenium complexes for the direct C-H functionalisation of pyridine derivatives: A mechanistic study using computational methods"	<b>Chitra Gurnani</b> <i>University of Southampton</i> "Chemical Vapour Deposition of Main Group Chalcogenides: From Precursor Synthesis to Phase Change Memory materials"	<b>Stephanie Hochruether</b> <i>Universität Erlangen</i> "Reactivity of novel dinuclear Pt(II) complexes"

6.30-7.30 Dinner – Rootes Restaraunt

7.30-10.0 Posters and Wine/Beer/Soft Drinks – Physics and Science Concourses.

## Wednesday 4th April

L3 Session Chair: Peter Scott

9.00-9.45 Tobias Ritter (Harvard): "Late-Stage Fluorination for PET Imaging"

9.45-10.40 Tomislav Friscic (McGill), Harrison-Meldola Memorial Prize: "Milling mechanochemistry and accelerated aging: strategies for low-solvent and low-energy synthesis of metal-organic materials"

10.40-11.00 Tea/Coffee

11.00-12.40 Parallel sessions:

Room	L3	L4	L5	B202
Chair	<b>Rob Deeth</b>	<b>David Cole-Hamilton</b>	<b>Andrew Beeby</b>	<b>Emma Raven</b>
11.00 - 11.20	<b>Stephen Sproules</b> <i>University of Manchester</i> "Unprecedented Spin Localisation in Rhenium Dimers with Multiple Metal-Metal Bonds"	<b>Duncan Bruce</b> <i>University of York</i> "2-Phenylpyridine Complexes of Platinum(II) and Iridium(III): Phosphorescence, Liquid Crystals and Oxidation"	<b>Hon Ying Zang</b> <i>University of Glasgow</i> "Molecular Meccano"-Stepwise Construction of the Chiral polythioanion via symmetry breaking strategy"	<b>Marius Horch</b> <i>TU Berlin</i> "Structure-Function Correlations of the Soluble, NAD <sup>+</sup> -Reducing [NiFe] Hydrogenase from <i>Ralstonia eutropha</i> H16: Insights into Oxygen Tolerance"
11.20 - 11.40	<b>Nathan Patmore</b> <i>University of Sheffield</i> "Mixed-valency in hydrogen bonded 'dimers of dimers'"	<b>Antonio Zucca</b> <i>University of Sassari</i> "Rollover and retro-rollover reaction"	<b>Deborah Crawford</b> <i>Queen's University, Belfast</i> "Novel Approaches to Optical Sensors"	<b>Ingo Zebger</b> <i>TU Berlin</i> "From the natural environment towards biotechnological application: spectroscopic insights into structure and function of [NiFe]-hydrogenases"
11.40 - 12.00	<b>Nik Kaltsoyannis</b> <i>UCL</i> "Covalency in molecular f-element compounds"	<b>Conor Long</b> <i>Dublin City University</i> "The Photophysics and Photochemistry of ( $\eta^6$ -arene)M(CO) <sub>3</sub> : A Picosecond TRIR and TD-DFT Investigation"	<b>Eufemio Moreno</b> <i>University of Manchester</i> "Magnetic Refrigerant Molecules"	<b>Kylie Vincent</b> <i>Oxford University</i> "Infrared spectroscopic studies of the reactions of nitric oxide with protein-bound iron sulfur clusters"
12.00 - 12.20	<b>Nicholas Fletcher</b> <i>Queen's University, Belfast</i> "Interrogation of an iron(II) dynamic combinatorial library by ES-MS"	<b>Stuart Macgregor</b> <i>Heriot-Watt University</i> "Catalytic Hydrodefluorination of C <sub>6</sub> F <sub>5</sub> H by Ru(NHC)(PPh <sub>3</sub> ) <sub>2</sub> (CO)H <sub>2</sub> "	<b>Phil Schauer</b> <i>University of Durham</i> "Organic vs Organometallic Electrophores"	<b>Claudia Blindauer</b> <i>Warwick University</i> "Albumin: translating plasma fatty acid status into zinc signals"
12.20 - 12.40	<b>Jennifer Turkington</b> <i>University of Edinburgh</i> "Outer-Sphere Ligands as Chlorometallate Extractants"	<b>Jon Rourke</b> <i>University of Warwick</i> "Concerted reductive coupling of an alkyl chloride at Pt(IV)"	<b>Deanne Nolan</b> <i>Trinity College, Dublin</i> "Probing Structure-Property Relationships in Luminescent Metal-Organic Chromophores"	<b>Sofia Pascu</b> <i>University of Bath</i> "Interactions between carbon nanomaterials and biocompatible fluorophores"

12.40-2.00 Lunch (Rootes Restaurant) and poster browsing

**L3** Session Chair: **Peter Sadler**

2.00-2.45 **Gerard Parkin** (Columbia): "Applications of Tripodal Ligands in Bioinorganic and Organometallic Chemistry: From the Functionalization of Carbon Dioxide to Approaches for Mercury Detoxification"

2.45-3.40 **James Cowan** (Ohio State), Bioinorganic Chemistry Award: "Catalytic MetalloDrugs – New Therapies for Old Problems"

3.40-4.10 Tea/Coffee

4.10-5.50 Parallel sessions:

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Chair	<b>Duncan Bruce</b>	<b>Laurence Thompson</b>	<b>Mike Hill</b>	<b>Anne-K Duhme-Klair</b>
4.10 - 4.30	<b>Nicola Giri</b> <i>Queen's University, Belfast</i> "A metal complex that imitates a micelle"	<b>Claire Bakewell</b> <i>Imperial College, London</i> "Aluminium quinolate complexes: New iso-selective initiators for rac-lactide ring-opening polymerization"	<b>Martin Smith</b> <i>University of Loughborough</i> "Similarities and differences in the coordination behaviour of cyclic/caged aminomethylphosphines"	<b>David Evans</b> <i>John Innes Centre</i> "Plant virus templated inorganic nanoparticles"
4.30 - 4.50	<b>Marc Robert</b> <i>Université Paris Diderot</i> "Cobalt Clathrochelate complex as a Precursor for the Electrodeposition of Nanoparticles Catalyzing H <sub>2</sub> Evolution in Water"	<b>Nicola Bell</b> <i>University of Edinburgh</i> "Novel Reactivity of Tripodal Borate Ligands"	<b>Paul Newman</b> <i>University of Cardiff</i> "Bicyclic Expanded-Ring N-heterocyclic Carbenes"	<b>Robert Deeth</b> <i>University of Warwick</i> Computer Modelling of Transition Metals Binding to Biomolecules"
4.50 - 5.10	<b>Andrew Burrows</b> <i>University of Bath</i> "Synthesis and post-synthetic modification of functionalised metal-organic frameworks"	<b>Roland Meier</b> <i>Universität Erlangen</i> "Protolytic Patterns of Group 13 Complexes: New Insights from Water Ex-change and Ligand Fluxionality"	<b>Penelope Brothers</b> <i>University of Auckland</i> "Diboron corrole complexes: spontaneous boron hydride formation"	<b>Tatyana Shubina</b> <i>Universität Erlangen</i> "Binding of small molecules to Metalloporphyrins"
5.10 - 5.30	<b>Dai Davies</b> <i>University of Leicester</i> "Ligand effects on luminescent biscyclometallated iridium complexes"	<b>Ralph Puchta</b> <i>Universität Erlangen</i> "Ligand exchange at solvated Be <sup>2+</sup> – a quantum chemical approach"	<b>Andrew Jolleys</b> <i>University of Southampton</i> "Complexes of Tellurium(IV) Halides with Neutral Group 16 Donor Ligands"	<b>Richard Lonsdale</b> <i>University of Bristol</i> "QM/MM studies of reactivity and selectivity in cytochrome P450 enzymes"
5.30 - 5.50	<b>Yong Yan</b> <i>University of Nottingham</i> "Metal-Organic Frameworks with Coordinatively Unsaturated Metal Sites for Hydrogen Storage"	<b>Fabrizio Ortu</b> <i>University of Nottingham</i> "Stabilisation of Group II Complexes with Bulky N-donor ligands"	<b>Alexandra Gower</b> <i>University of Nottingham</i> "Main Group and Transition Metal Complexes of Ligands Featuring Intramolecular Donors"	<b>Graeme Stasiuk</b> <i>Imperial College, London</i> "Molecular Imaging Agents for Formyl Peptide Receptors 1 and 2"

7.30-11.00 Conference Banquet (Panorama Suite, Rootes Building)

**Thursday 5th April****L3 Session Chair: Emma Raven**9.00-9.55 **Stephen Liddle** (Nottingham), Sir Edward Frankland Fellowship: "UNCLE: Uranium in Non-Conventional Ligand Environments"9.55-10.15 **Ross Anderson** (Bristol), IDBG Prize lecture: "How to make and break oxygen with artificial oxidoreductases"

10.15-10.45 Tea/Coffee

10.45-11.45 Parallel sessions:

Room	L3	L4	L5
Chair	<b>Jon Rourke</b>	<b>Stuart Macgregor</b>	<b>Jason Love</b>
10.45 - 11.05	<b>Katie Smart</b> <i>Université Toulouse</i> "Substituent Effects in the Coordination of Silazanes at Ruthenium"	<b>Benjamin Gridley</b> <i>University of Nottingham</i> "Synthesis and Reactivity of New Transition Metal Terphenyl Complexes"	<b>James Roebuck</b> <i>University of Edinburgh</i> "Assembly of polymeric Copper(II) complex with 3-(2-hydroxy-5-tert-butyl-phenyl)pyrazole"
11.05 - 11.25	<b>Wing Yang Man</b> <i>University of Durham</i> "Redox Chemistry Of Tp, PMe <sub>3</sub> Coordinated Ruthenium Vinyl Complexes"	<b>Tracy Nixon</b> <i>Cardiff University</i> "Catalytic Applications Of Calcium With Chiral Ligands"	<b>Ian Fairlamb</b> <i>University of York</i> "From well-defined homogeneous Pd precatalysts to Pd nanoparticles: multiple active catalytic phases"
11.25 - 11.45	<b>Warren Cross</b> <i>University of Leicester</i> "Amine-functionalised N-heterocyclic carbene ligands: synthesis, coordination and applications."	<b>Arne Ficks</b> <i>Newcastle University</i> "Transition Metal Complexes of MOP-based P-ligands for Asymmetric Catalysis"	<b>Jan Klett</b> <i>University of Strathclyde</i> "Designing Metal-Rich Organometallic Nanomolecules through an Advanced Metallation Tool"

**L3 Session Chair: Jon Rourke**11.45-12.40 **Richard Winpenny** (Manchester), Tilden Prize: "Heterometallic Rings and Chains"12.40-12.55 Concluding remarks: **Peter Tasker**

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