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| Time | Sunday 14th December 2008 |
| 1430 - 1630 | **Registration**  *C Block Lecture Theatre Foyer* |
| 1630 - 1700 | **Opening Ceremony**  *Lecture* *Theatre C1* |
| 1700 - 1800 | **Plenary Lecture 1**  *Lecture Theatre C1* Chair: Richard Hartshorn |
| *2008: A Small Space Odyssey with Luminescent Molecules* |
| **A. P. de Silva**  Queen’s University of Belfast, United Kingdom |
| 1800 - 1900 | **Mixer**  *C Block Lecture Theatre Foyer* |

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| Time | **Monday 15th December 2008** | | | |
| 0900 - 1000 | **Plenary Lecture 2**  *Lecture Theatre C1* Chair: Richard Keene | | | |
| *Functional Metal-Organic Framework Materials* | | | |
| **Joeseph Hupp**  Northwestern University, USA | | | |
|  | **New Faces in Chemistry**  *Lecture Theatre C2* Chair: Chris Fitchett | | **Coordination Chemistry**  *Lecture Theatre C3* Chair: James Wright | |
| 1000 - 1020 | **Marcus Cole**  University of New South Wales, Australia | **O 1** | **Phimphaka Harding**  Walailak University, Thailand | **O 4** |
| *Heavy group 13 halohydrides – not just aspiring trihydrides!* | | *Electron transfer studies of cobalt(II) and nickel(II) β-diketonate complexes incorporating asymmetric diimine ligands* | |
| 1020 - 1040 | **Deanna D'Alessandro**  University of California, USA | **O 2** | **Laurent Poorters**  University of New South Wales, Australia | **O 5** |
| *CO2 capture in amine-functionalised metal-organic frameworks* | | *Versatile early and late transition metal coordination by*  *pyrazolyl-based heteroscorpionate pincers* | |
| 1040 - 1100 | **Evan Moore**  University of Melbourne, Australia | **O 3** | **Jean-François Halet**  University of Rennes, France | **O 6** |
| *From the visible to near infra-red:*  *efficient antennae for sensitised Ln(III) luminescence* | | *Heteroatom in carbon ligands spanning two metal centers:*  *enhancement or diminution of the electronic communication?*  *The case of di-iron-(bis)acetylide-pyridine species* | |
| 1100 - 1130 | **Morning Tea** | | | |
|  | **New Faces in Chemistry**  *Lecture Theatre C2* Chair: Chris Fitchett | | **Bioinorganic Chemistry**  *Lecture Theatre C3* Chair: Peter Steel | |
| 1130 - 1150 | **Nigel T. Lucas**  University of Otago, New Zealand | **O 7** | **Lou Rendina**  University of Sydney, Australia | **O 10** |
| *Hexabenzocoronene ligands for supramolecular ordering* | | *Selective aggregation of a Pt-Gd complex within a tumour cell nucleus* | |
| 1150 - 1210 | **Shane Telfer**  Massey University, New Zealand | **O 8** | **Anthony Wedd**  University of Melbourne, Australia | **O 11** |
| *Synthesis and photophysical properties of complexes of dipyrrin ligands* | | *Control of seven copper sites in a single enzymic reaction of copper resistance* | |
| 1210 - 1230 | **David Turner**  Monash University, Australia | **O 9** | **Richard Keene**  James Cook University, Australia | **O 12** |
| *Clusters, chains and non-covalent networks:*  *The unpredictable chemistry of dicyanomethanide ligands* | | *Dinuclear ruthenium(II) complexes as potential probes for*  *RNA bulge sites* | |
| 1230 - 1330 | **Lunch** | | | |
|  | | **Supramolecular Chemistry**  *Lecture Theatre C2* Chair: Paul Kruger | | **Organometallic Chemistry**  *Lecture Theatre C3* Chair: Owen Curnow | |
| 1330 - 1400 | | **Christoph Janiak**  University of Freiburg, Germany | **K 1** | **James Wright**  *University of Auckland, New Zealand* | **K 2** |
| *From metal-organic to hydrogen-bonded networks* | | *Metallabenzene ring functionalization reactions* | |
| 1400 - 1420 | | **Christopher J. Sumby**  University of Adelaide, Australia | **O 13** | **Claude Lapinte**  University of Rennes, France | **O 17** |
| *Cross-conjugated and highly conjugated heterocyclic ligands;*  *discrete coordination complexes and metallo-supramolecular*  *assemblies* | | *Long distance electronic and magnetic interactions between*  *organometallic redox active centres mediated by carbon rich*  *bridges containing aromatic rings* | |
| 1420 - 1440 | | **Paul Plieger**  Massey University, New Zealand | **O 14** | **David Brown**  Curtin University of Technology, Australia | **O 18** |
| *Anion binding utilizing polyammonium transition metal helicates* | | *Alkoxybenzimidazolium-linked cyclophanes:*  *conformation control and carbene-precursors* | |
| 1440 - 1500 | | **Nicholas J. Fitzgerald**  University of Melbourne, Australia | **O 15** | **Allan Canty**  University of Tasmania, Australia | **O 19** |
| *Novel supramolecular assemblies of cyclotricatechylene* | | *Miniaturising metal catalysis at the micrometer level in*  *capillaries and glass chips* | |
| 1500 - 1520 | | **Stephen F. Lincoln**  University of Adelaide, Australia | **O 16** | **Bradley T. Loughrey**  Griffith University, Australia | **O 20** |
|  | | *Cyclodextrin [2]- and [3]-Pseudorotaxanes: An UV-vis and 2D 1H*  *NMR ROESY equilibrium and structural study in aqueous solution* | | *Novel organometallic ruthenium(II) Cp\* benzenesulphonamides*  *for the inhibition of carbonic anhydrases* | |
| 1530 - 1700 | | **Poster Session**  **S 1 –S 6 and PM 1 - PM 70**  *Mezzanine Floor* | | | |
| 1700 - 1800 | | **Happy Hour**  *Drinks Served from 1645* | | | |
| 1830 - 2100 | | **Student BBQ**  *University Staff Club, Ilam Gardens.* | | | |

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| Time | **Tuesday 16th December** | | | | | | | | |
| 0900-1000 | **Plenary Lecture 3**  **Leature Theatre C1** Chair: Shane Telfer | | | | | | | | |
| *Atom and Group Transfer Catalysis with Reactive Metal-Ligand Multiple Bonded Complexes* | | | | | | | | |
| **Chi-Ming Che**  **University of Hong Kong** | | | | | | | | |
| *Chair* | **Coordination Chemistry**  *Lecture Theatre C1* Chair: Shane Telfer | | **Catalysis**  *Lecture Theatre C2* Chair: Brian Yates | | **Bioingoranic Chemistry**  *Lecture Theatre C3* Chair: Chris Sumby | | | | |
| 1000 - 1020 | **Charles Young**  University of Melbourne, Australia | **O 21** | **Leone Spiccia**  Monash University, Australia | **O 24** | **Lawrence Gahan**  University of Queensland, Australia | | **O 27** | | |
| *Dioxo- and oxosulfido-Mo(V) radical anions*  *and their conjugate acids* | | *Bioinspired water oxidation catalysis:*  *towards renewable hydrogen generation* | | *Structural and catalytic models for phosphoesterases* | | | | |
| 1020 - 1040 | **Andrew Sykes**  University of South Dakota, USA | **O 22** | **Shazia Zaman**  University of Canterbury, New Zealand | **O 25** | **Rachel Codd**  University of Sydney, Australia | | **O 28** | | |
| *Oxonium ion based molecular switches:*  *large-amplitude changes in molecular geometry*  *within anthraquinone-containing macrocycles* | | *Synthesis and reactions of a new*  *soluble-polymer bound ruthenium-carbene*  *catalyst for olefin metathesis* | | *Chemical biology of siderophores* | | | | |
| 1040 - 1100 | **Feng Li**  University of Sydney, Australia | **O 23** | **Matthias Lein**  Massey University, New Zealand | **O 26** | **Radhika Naik**  ANSTO, Australia | | **O 29** | | |
| *Structural and magnetic properties of iron(II) complexes with 2,3-di-2-pyridylpyrazine (DPP)* | | *The effects of relativity on reaction mechanisms – Gold(III) catalysis as an example* | | *Metal absorption on eri and mulberry silk powders: a comparative study* | | | | |
| 1100 - 1130 | **Morning Tea** | | | | | | | | |
| *Chair* | **Coordination Chemistry**  *Lecture Theatre C1* Chair: Jan Wikaira | | **Materials**  *Lecture Theatre C2* Chair: Vladimir Golovko | | **Biomedical**  *Lecture Theatre C3* Chair: Nigel Lucas | | | | |
| 1130-1150 | **Peter Junk**  Monash University, Australia | **O 30** | **Tilo Soehnel**  University of Auckland, New Zealand | **O 33** | **Peter Lay**  University of Sydney, Australia | | **O36** | | |
| *Access to heterobimetallic complexes by direct routes* | | *The chemical transport and the crystal*  *and electronic structure of Cu5SbO6*  *and Cu5Sb2Si3O12* | | *Biomedical applications of X-Ray absorption*  *and vibrational spectroscopic microscopies*  *in bioinorganic chemistry* | | | | |
| 1150-1210 | **Geoffrey Lawrance**  University of Newcastle, United Kingdom | **O 31** | **David P. Anderson**  University of Canterbury, New Zealand | **O 34** | **Nerissa Viola-Villegas**  Syracuse University, USA | | **O 37** | | |
| *Complexation of deceptively simple and decidedly*  *non-simple ligands: conjoint analysis of kinetic*  *and equilibrium data for mechanistic elucidation* | | *Effects of metal carbonyl precursor*  *on the formation of metal colloids* | | *Illuminating the cytotoxicity of a novel*  *rhenium(I) bioconjugate of folic acid in folate receptor overexpressing cancer cells* | | | | |
| 1210-1230 | **Vickie McKee**  Loughborough University, United Kingdom | **O 32** | **Vernon Cook**  CSIRO, Australia | **O 35** | **Trevor Hambley**  University of Sydney, Australia | | **O 38** | | |
| *Double template effect in polynuclear pseudocalixarenes* | | *Tunable photoluminescenct platinum*  *complexes & flexible photonic crystals* | | *Metal based drug uptake in tumours, tumour*  *models and cells: imaging and modification* | | | | |
| 1230-1330 | **Lunch** | | | | | | | | |
| *Chair* | **Coordination Chemistry**  *Lecture Theatre C1* Chair: David Turner | | **Organometallic Chemistry**  *Lecture theatre C2* Chair: Marcus Cole | | | **Robinson-Simpson Symposium**  *Lecture Theatre C3* Chair: Lyall Hanton | | | |
| 1330-1400 | **Peter Tasker**  University of Edinburgh, United Kingdom | **K 3** | **Ekkehardt Hahn**  University of Münster, Germany | **K 4** | | **Michael Bruce**  University of Adelaide, Australia | **K 5** | | |
| Using the outer coordination sphere  in extractive hydrometallurgy | | *Template synthesis of complexes*  *with cyclic polycarbene ligands* | | | *Oxidation reactions of alkynyl-metal complexes: formation of unusual dimers and acyl complexes* | | | |
| 1400 - 1420 | **Gregory Halder**  Argonne National Laboratory, USA | **O 39** | **Swee Kuan Yen**  National University of Singapore, Singapore | **O 43** | | **Brian Nicholson**  University of Waikato, New Zealand | **O 47** | | |
| *Guest-dependent high-pressure behavior*  *in a nanoporous metal-organic framework material* | | *Synthesis, structure and catalytic applications*  *of novel palladium(II) carbene complexes with benzothiazolin-2-ylidene ligands* | | | *Aryl stibonic acids; precursors to organometallic, high-nuclearity isopolyoxystibonates* | | | |
| 1420 - 1440 | **Eric Ainscough**  Massey University, New Zealand | **O 40** | **Suresh Bhargava**  RMIT University, Australia | **O 44** | | **John Spencer**  Victoria University, New Zealand | **O 48** | | |
| *Dinuclear copper(II) complexes containing*  *bridging cyclotetraphosphazenes and their*  *metal-metal communication* | | *The chemistry and reactivity of platinacycles* | | | *Heterobidentate ligands* | | | |
| 1440 - 1500 | **David J. Harding**  Walailak University, Thailand | **O 41** | **Adrian B. Chaplin**  University of Oxford, United Kindom | **O 45** | | **Vladimir Golovko**  University of Canterbury, New Zealand | | **O 49** |
| *Synthesis and characterization of redox-active tris(pyrazolyl)borate cobalt complexes* | | *Acceptorless alkyl dehydrogention in a Rh(I)*  *complex via an isolated agostic intermediate* | | | *Polynuclear systems containing dicobalt*  *carbonyl-coordinated alkyne building blocks* | | | |
| 1500 - 1520 | **Michael G.** **Gardiner**  University of Tasmania, Australia | **O 42** | **Kohtaro Osakada**  Tokyo Institute of Technology, Japan | **O 46** | |  | | | |
| *Structure and reactivity studies of tethered mixed*  *anion lithium complexes: a rational discovery*  *of a new class of superbase* | | *Organometallic rotaxanes with unique*  *structures and chemical behaviors* | | |  | | | |
| 1530 - 1700 | **Poster Session 2**  **S 1 –S 6 and PT 1 - PT 70**  *Mezzanine Floor* | | | | | | | | |
| 1700 - 1800 | **Happy Hour**  *Drinks served from 1645* | | | | | | | | |
| 1930 - Late | **Social**  *Dux de Lux,*  *Arts Centre* | | | | | | | | |

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| Time | **Wednesday 16th December** | | | | | | |
| 0900-1000 | **Plenary Lecture 4**  *Lecture Theatre C1* Chair: Paul Kruger | | | | | | |
| *Cooperating Metal Centers: Metalloenzyme Active Sites, Synthetic Models, and Beyond* | | | | | | |
| **Franc Meyer**  University of Göttingen | | | | | | |
| *Chair* | **Materials**  *Lecture Theatre C1* Chair: Paul Kruger | | **Biomedical**  *Lecture Theatre C2* Chair: Lou Rendina | | | **General**  *Lecture Theatre C3* Chair: Jan Wikaira | |
| 1000 - 1020 | **Keith Murray**  Monash University, Australia | **O 50** | **Paul Guagliardo**  University of Sydney, Australia | **O 53** | | **Mark Riley**  University of Queensland, Australia | **O 56** |
| *Metallo-supramolecular clusters and frameworks;*  *spin-exchange, SMM and spin-switching* | | *Positron annihilation lifetime spectroscopy:*  *a tool for exploring nanoporosity in*  *biological materials* | | | *MCD and EPR of a dynamic copper(II)*  *Jahn-Teller system* | |
| 1020 - 1040 | **Simon Iremonger**  University of Sydney, Australia | **O 51** | **Paul S. Donnelly**  University of Melbourne, Australia | **O 54** | | **Horst Puschmann**  Durham University, UK | **O 57** |
| *Anions in framework materials: From gas*  *storage to post-synthetic modification* | | *Copper radiopharmaceuticals for the*  *molecular imaging of Alzheimer’s disease* | | | *Making crystallography accessible: Olex 2*  *and the small molecule toolbox* | |
| 1040 - 1100 | **David J. Price**  University of Sydney, Australia | **O 52** | **Philip Sharpe**  University of Queensland, Australia | **O 55** | | **Yanyan Mulyana**  University of Melbourne, Australia | **O 58** |
| *Spin-crossover Hofmann-type materials*  *structures and magnetism* | | *Chelators as medicinal agents: iron and beyond.* | | | *Valence tautomerism in cobalt complexes* | |
| 1100 - 1130 | **Morning Tea** | | | | | | |
| *Chair* | **Materials**  *Lecture Theatre C1* Chair: Vladimir Golovko | | **Inorganic Clusters**  *Lecture Theatre C2* Chair: Andy Sykes | | **Sensors**  *Lecture Theatre C3* Chair: Deanna D’Alessandro | | |
| 1130-1150 | **Eskender Mume**  ANSTO, Australia | **O 59** | **Colette Boskovic**  University of Melbourne, Australia | **O 62** | **Marco Wenzel**  Massey University, New Zealand | | **O 65** |
| *Nuclear probes for characterising self-assembled monolayers on silicon surfaces* | | *Polyoxotungstate-encapsulated lanthanoid*  *spin clusters* | | *Tripodal polyamine – ambivalent receptors for cations and anions* | | |
| 1150-1210 | **John McMurtrie**  Queensland University of Technology, Australia | **O 60** | **Roland Bircher**  ANSTO, Australia | **O 63** | **Kevin Wainwright**  Flinders University, Australia | | **O 66** |
| *Supramolecular selection in metal complex alloys* | | *Twisting molecules - On the effects of hydrostatic pressure on a Mn6 single-molecule magnet* | | *Metal-ion activated molecular receptors*  *immobilised on silica* | | |
| 1210-1230 | **Tony Masters**  University of Sydney, Australia | **O 61** | **Jingli Xie**  University of Melbourne, Australia | **O 64** | **Glenn D. Wright**  Queens University of Belfast, UK | | **O 67** |
| *Bespoke catalytic surfaces –*  *precision nanoengineering* | | *Toward a facile one-step construction of*  *quantum dots containing Zn8S cores* | | *Consolidation of molecular computational identification* | | |
| 1230-1330 | **Lunch** | | | | | | |

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|  | **Supramolecular Chemistry**  *Lecture Theatre C1*  Chair: Richard Keene | | **Bioinorganic Chemistry**  *Lecture Theatre C2* Chair: Evan Moore | | **Computational**  *Lecture Theatre C3* Chair: Owen Curnow | |
| 1330-1400 | **Leonard Lindoy**  University of Sydney, Australia | **K 6** | **Paul Bernhardt**  University of Queensland, Australia | **K 7** | **Brian Yates**  University of Tasmania, Australia | **K 8** |
|  | *Strategies for generation of new discrete nano-scale molecular structures via metal-ion directed assembly* | | *Mediated molybdoenzyme electrocatalysis:*  *macrocyclic chemistry meets enzymology* | | *A computational approach to the*  *activation of strong bonds* | |
| 1400 - 1420 | **Paul Kruger**  University of Canterbury, New Zealand | **O 68** | **Matthew J. Belousoff**  Monash University, Australia | **O 71** | **Al Nielson**  Massey University , New Zealand | **O 74** |
| *Twist and spin: from anion binding to spin crossover in dinuclear Fe(II) helicates* | | *A new macrocyclic terbium(III) complex for*  *use in RNA footprinting experiments* | | *Coordination chemistry by computation; from linear agnostic interactions to weak hydrogen bonds in TM complexes* | |
| 1420 - 1440 | **Kay Latham**  RMIT University, Australia | **O 69** | **Oluwatayo Ikotun**  Syracuse University, USA | **O 72** | **Nigel Brookes**  University of Tasmania, Australia | **O 75** |
|  | *Ionic molecular crystals of organophosphonic acids: synthesis, supramolecular motifs and luminescent*  *Behavior* | | *Pharmokinetic properties of pyrophosphate-based homodinuclear coordination complexes* | | *Scission of carbon dioxide by transition*  *metal complexes. A DFT investigation* | |
| 1440 - 1500 | **Brendan Abrahams**  University of Melbourne, Australia | **O 70** | **David Schilter**  University of Sydney, Australia | **O 73** | **Ralf Tonner**  Massey University, New Zealand | **O 76** |
|  | *Structural and host-guest studies of novel*  *supramolecular species* | | *Synthesis and bio-inorganic chemistry of*  *metallocyclic architectures* | | *Adsorption of proline and glycine on the TiO2(110) surface – a DFT study* | |
| 1500 - 1530 | **Afternoon Tea** | | | | | |
|  | **Stranks Award Oral Presentation**  *Lecture Theatre C1*  Chair: Paul Bernhardt | | | | | |
| 1535 - 1555 | **Matthias Zimmermann**, University of Melbourne, Australia  *The N-terminal domain of the zinc transmembrane transporter HMA4 from Arabidopsis thaliana binds Cu(I) 106 times more strongly than Zn(II) and Cd(II)* | | | | | **S 1** |
| 1555 - 1615 | **Natasha F. Sciortino,** University of Sydney, Australia  *Multifunctional metal-organic frameworks* | | | | | **S 2** |
| 1615 - 1635 | **Sumy Kunnamkumarath,** University of Adelaide, Australia  *Intracellular imaging of anti-cancer NAMI-A analogues* | | | | | **S 3** |
| 1635 - 1655 | **Jonathon Kitchen,** University of Otago, New Zealand  *Generating magnetically interesting dinuclear iron(II) complexes with designer 1,2,4-triazole ligands* | | | | | **S 4** |
| 1655 - 1715 | **H.Y. Vincent Ching,** University of Sydney, Australia  *Boronated DNA metallointercalators for boron neutron capture therapy* | | | | | **S 5** |
| 1715 - 1735 | **Victoria J. Argyle,** University of Otago, New Zealand  *Metal oxime triangles, cages and boxes* | | | | | **S 6** |
| 1845 - 1900 | **Buses to Antarctic Centre**  *UCSA Car Park* | | | | | |
| 1900 – 2200 | **Conference Dinner and Awards Ceremony**  *Antarctic Centre*  *Buses will return guests to the University at 2200 and 2230.* | | | | | |

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| Time | **Thursday18th December 2008** |
| 0930-1030 | **Plenary Lecture 5**  *Lecture Theatre C1* Chair: Richard Hartshorn |
| *Olefin Metathesis and Discovering New Reactions* |
| **Bob Grubbs**  California Institute of Technology, USA |
| 1030 - 1100 | **Morning Tea** |
| 1100 - 1200 | **Burrows Lecture**  *Lecture Theatre C1* Chair: Paul Bernhardt |
| *Shedding Light on Organometallics* |
| **Mark Humphrey**  Australian National University, Australia |
| 1200 - 1300 | **Closing Ceremony**  **Divisional Meeting**  *Lecture Theatre C1* |