



39TH INTERNATIONAL CONFERENCE ON COORDINATION CHEMISTRY

Sunday 25 – Friday 30 July 2010
Adelaide Convention Centre
Adelaide, South Australia



Program Book

ICCC39



Welcome

The 2010 Conference organising committee welcomes you to the 39th International Conference on Coordination Chemistry at the award winning Adelaide Convention Centre.

This year's conference will encompass all aspects of coordination chemistry through exceptional plenary, keynote and section lectures along with outstanding poster presentations. The excellent scientific program will be conducted by speakers who are leaders in their field. They will offer broad and cutting edge presentations on coordination chemistry addressing issues of the 21st century, particularly those relating to energy, environmental and medicinal chemistry.

The conference social program is of an equally high standard to that of the scientific program and will undoubtedly be most appealing to both delegates and accompanying persons. We trust you will have a professionally satisfying and socially enjoyable experience at our meeting in our beautiful city.

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Organising Committee

Chair	2
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Professor Kevin Wainwright <i>Flinders University</i>	4
Treasurer	4-5
Associate Professor Jonathan Morris <i>The University of New South Wales</i>	5
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Hosts and Sponsors

About The Royal Australian Chemical Institute



www.raci.org.au

The Royal Australian Chemical Institute (RACI) is the major professional body for chemists in Australia. It embraces all areas of research, production and technology of chemistry and spans academia, the chemical industry, government organisations and schools. The RACI publishes a journal, Chemistry in Australia, which caters for the professional needs and interests of its members. The Institute is very active in promotion of chemistry and associated sciences in schools, universities and the community generally.

About the International Union of Pure and Applied Chemistry



<http://iupac.org/>

The International Union of Pure and Applied Chemistry (IUPAC) advances the worldwide aspects of the chemical sciences and contributes to the application of chemistry in the service of humankind. As a scientific, international, non-governmental and objective body, IUPAC can address many global issues involving the chemical sciences. IUPAC is the senior international chemical professional organisation and promotes chemical science in all of its aspects through its own in-house journals. It has responsibility of continued review of nomenclature and all associated matters to ensure that chemical symbolism is a powerful and well maintained international language.

Conference Dinner Sponsor



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Poster Session Sponsor

Inorganic Chemistry
including bioinorganic chemistry

Contributing Sponsors



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Recommended Publications

- Australian Journal of Chemistry
- Coordination Chemistry Review
- Dalton Transactions and Chemical Communications



Program Summary

Coordination chemistry combines the traditional areas of inorganic and organic chemistry and it is ever present in all aspects of the chemical, physical, and biological sciences. For example, coordination chemistry provides the means by which plants, humans and other animals take up essential metallic elements from the environment. Industrialists now use coordination chemistry on a daily basis as an environmentally friendly way of extracting metals from their ores in hydrometallurgical extraction processes and for purification and isolation of metals. The pharmaceutical industry uses coordination chemistry in various medications and in procedures such as MRI

scanning and radioimaging. Under development are new coordination compounds capable of trapping and storing gases such as hydrogen and methane and, with the aid of the sun, facilitating the conversion of water into hydrogen and oxygen or sunlight directly into electrical energy. The 39th ICC will bring together the world's leading coordination chemists to showcase the latest developments in this field of science and emerging topics. There will be a full range of plenary, keynote and contributed lectures, poster presentations as well as excellent opportunities to network with the participants at the various social events that are planned.

The conference program will be structured around the current and emerging themes of coordination chemistry, including

- Inorganic materials chemistry
- Metals in synthesis and catalysis, including metal extraction
- New challenges: energy and the environment
- Supramolecular chemistry
- Bioinorganic chemistry
- Werner complexes

Plenary Speakers



Massachusetts Institute of Technology, United States of America

Daniel G. Nocera is the Henry Dreyfus Professor of Energy and Professor of Chemistry, Director of the Solar Revolutions Project and Director of the Enl Solar Frontiers Center at MIT. He studies the chemistry of renewable energy. He has discovered a solar fuels process that captures many of the elements of photosynthesis outside of the leaf. His recent efforts are devoted to bringing carbon-neutral, personalised energy to the poor and those of the non-legacy world.



Durham University, United Kingdom

David Parker is a native of the north-east of England and graduated with a First in Chemistry from Oxford University in 1978. He completed a DPhil with Dr John M. Brown in 1980 on mechanistic studies in asymmetric catalysis. Following a NATO post-doctoral fellowship with Prof Jean-Marie Lehn in Strasbourg, he returned to Durham to take up a lectureship in chemistry in 1982 and was promoted to a professorship in chemistry in 1992. He received the RSC Hickinbottom Fellowship for 1988/9, the Corday-Morgan Medal and Prize in 1989, the ICI Prize in Organic Chemistry in 1991, the RSC Interdisciplinary Award in 1996, a Royal Society Leverhulme Trust Senior Research Fellowship (1998/9), the Inaugural IBC Award for Supramolecular Science and Technology in 2000, the first RSC award for Supramolecular Chemistry in 2002, and a Tilden lectureship and Silver Medal in 2003. In 2002 he was elected as a Fellow of the Royal Society. He has held several visiting professorships and named lectureships and served as the chairman of the Chemistry Department at Durham in 1995-8 and 2003-6.



UC Berkeley, United States of America

Kenneth N. Raymond received a BA in 1964 from Reed College in Oregon. Prior to his PhD from Northwestern University he began his faculty appointment at the University of California at Berkeley on July 1, 1967. There he has remained, becoming Associate Professor in 1974, Professor in 1978 and Chancellor's Professor in 2006. He has served as Vice Chair of the Berkeley Chemistry Department (1982-1984 and 1999-2000), Chair (1993-1996) and been a visiting professor or lecturer at many universities around the world. For his work in bioinorganic and coordination chemistry he was elected to the National Academy of Sciences in 1997 and the American Academy of Arts and Sciences in 2001 and has received a number of major awards including the DOE Ernest O. Lawrence Award (1984), the American Chemical Society Alfred Bader Award in Bioinorganic or Bioorganic Chemistry (1994), the Izzatt-Christensen Award in Macrocyclic Chemistry (2005) and the ACS Award in Inorganic Chemistry (2008). Professor Raymond is a member of the editorial boards of several journals in the fields of inorganic and bioinorganic chemistry. In addition to his academic appointment on the University of California campus, he is a co-founder (2001) of Lumiphore Inc. which utilises new luminescent agents developed in his laboratory and Faculty Senior Scientist of the Chemical Sciences Division and Director of the Seaborg Center, Lawrence Berkeley National Laboratory.



University of Bochum, Germany

Nils Metzler-Nolte (né Metzler) obtained his PhD from the University of Munich in 1994. After a postdoctoral year with M.L.H. Green in Oxford, he started independent research at the Max-Planck-Institut für Bioinorganische Chemie. In 2000 he was appointed professor for pharmaceutical and bioinorganic chemistry at the University of Heidelberg. Since 2006, he has held the chair of Inorganic Chemistry at the University of Bochum. His research interest is in bioorganometallic chemistry and functional metal bioconjugates, including aspects of medicinal inorganic chemistry. His work has been recognised by several fellowships, awards, and guest lectureships. He is serving the community and his university in several functions e.g. as an editorial advisory board member of *EurJIC* and *Applied Organometallic Chemistry*, speaker of the DFG-funded research unit "Biological Function of Organometallic Compounds", steering committee member of the COST D39 action, Chairman of the 5th International Symposium on Bioorganometallic Chemistry in Bochum in 2010 and as speaker of the Research Department "Interfacial Systems Chemistry" at the same University.

Poster Sessions

Posters will be on display throughout the conference, split over 2 sessions.

Poster session 1 will commence on Monday morning until Tuesday evening, with poster session networking and drinks between 1645 to 1800.

Poster session 2 will commence on Wednesday morning until Thursday evening, with poster session networking drinks between 1645 to 1800.

Monday 26 July 2010

Alan Sargeson and Hans Freeman Memorial Lecture

Time: 1900 – 2100

Venue: Plenary Hall, C

Thursday 29 July 2010

Poster session networking drinks

Time: 1645 – 1800

Venue: Exhibition Halls J & K

Tuesday 27 July 2010

Poster session networking drinks

Time: 1645 – 1800

Venue: Exhibition Halls J & K

Friday 30 July 2010

RACI AGM

Time: 1230 – 1330

Venue: Plenary Hall, C



University of Edinburgh, United Kingdom

Polly L. Arnold obtained a BA from Oxford in 1994 and a DPhil from Sussex in 1997. She was awarded a Fulbright Scholarship for postdoctoral research at MIT, and returned to the UK to a lectureship at the University of Nottingham in 1999. She moved to the University of Edinburgh in 2007, and was promoted to chair in 2009. Recent awards include the Bessel Prize from the Alexander von Humboldt Foundation, the Chancellor's prize of the University of Edinburgh, the Sir Edward Frankland Prize Lectureship from the UK Royal Society of Chemistry, and a Leadership Fellowship from the UK EPSRC. Her group is interested in small molecule activation reactivity by organometallic f- and d-block complexes and their applications in fundamental bonding studies and homogeneous catalysis.



Kyoto University, Japan

Prof. Kitagawa received his PhD at Kyoto University in 1979. He spent time as Associate Professor at Kinki University, and then moved to Tokyo Metropolitan University in 1992 as Professor of Inorganic Chemistry. He was invited to Kyoto University as Professor of Functional Chemistry in 1998. His main research field is coordination chemistry, focusing on chemistry of novel molecularly organic-inorganic hybrid compounds, particularly porous coordination polymers. He received the Chemical Society of Japan (CSJ) Award for Creative Work (2003), the Japan Society of Coordination Chemistry Award (2007), CSJ Award (2008) and Alexander von Humboldt Research Award (2009). He was a leader of MEXT Grant; Priority Area, "Chemistry of Coordination Space (2004 -2007)" and is a leader of the ERATO program, "Integrated Pores" and a deputy director of iCeMS. He is an International advisory board member for *Inorg.Chem.*, *Chem.Comm.*, *Chem.Asian J.*, *Chem.Mater.*, *Inorg.Chim.Acta*, *Coord.Chem.Rev.*, *CrystEngComm*, *Eur.J.Inorg.Chem.*, *Chem.Lett.* and Topic Editor for *Cryst.Growth Design*.



The University of Hong Kong, Peoples Republic of China

Professor Vivian W-W Yam obtained both her BSc(Hons) and PhD from The University of Hong Kong, and is currently the Philip Wong Wilson Wong Professor in Chemistry and Energy and Chair of Chemistry there. She was elected to Member of the Chinese Academy of Sciences and Fellow of TWAS, the Academy of Sciences for the Developing World. She was the recipient of the RSC Centenary Medal, the State Natural Science Award of PR China, and the Japanese Photochemistry Association (JPA) Eikohsha Award. Her research interests include the photophysics and photochemistry of transition metal complexes and clusters, supramolecular chemistry, and metal-based molecular functional materials for luminescence sensing, optoelectronics, optical memory and solar energy conversion.



University of Melbourne, Australia

Anthony Wedd is Professor of Chemistry in the School of Chemistry and Bio21 Research Institute, University of Melbourne, Australia. He was educated at the University of Tasmania, receiving a PhD under the supervision of Peter W. Smith. An important postdoctoral experience involved working at the Unit of Nitrogen Fixation, University of Sussex and interacting with Joseph Chatt, Geoffrey Leigh and Raymond Richards. He was appointed to La Trobe University in 1972 and moved to the University of Melbourne in 1991.

Program

SUNDAY 25 JULY

1200 – 1730 **Registration**

Hall K

1730 – 1930 **Welcome reception**

Hall K

MONDAY 26 JULY

0730 – 1700 **Registration**

Hall K

0830 – 1000 **Opening ceremony**

Chair: S Lincoln

Plenary 1: Bioinorganic chemistry

Chair: C Orvig

Lanthanide complexes as cellular probes and diagnostic agents **D Parker** (001)

Hall C

1000 – 1030 **Morning tea & exhibition**

Hall J&K

1030 – 1245 **Concurrent A1: Inorganic materials chemistry**
Chair: S Brooker

Concurrent B1: Bioinorganic chemistry
Chair: R Hartshorn

Concurrent C1: Supramolecular chemistry
Chair: K Murray

Concurrent D1: Metals in synthesis (and catalysis)
Chair: E M Hey-Hawkins

1030 **Concurrent keynote:**
Coordination Chemistry and Supramolecular Approaches to creating Functional Materials
A Powell (002)

Concurrent keynote:
Copper Complexes Designed as Diagnostic Radiopharmaceuticals
P Donnelly (008)

Concurrent keynote:
The Power of Weak Interactions for Constructing New Metallosupramolecular Assemblies
P Steel (014)

Concurrent keynote:
Homogeneous Catalysts with a Mechanical "Machine-like" Action. Catalytic Solar Water Splitting Inspired by Photosynthesis
G Swiegers (020)

1000 Homoleptic and heteroleptic peroxo complexes of Nb, Ta and Mo as versatile molecular precursors for multimetallic oxide materials
M Devillers (003)

When basic Chemistry meets Radiopharmaceutical Design: Coordinated Ligand Effects in the Substitution Kinetics of $[\text{Re}(\text{CO})_3(\text{L}, \text{L}')(\text{H}_2\text{O})]n-$
H Visser (009)

Catalysis Using Macrocyclic Bound Copper(I): Active Template Synthesis of [2]Catenanes
J Wu (015)

Mechanisms of oxidation reactions: a binuclear intermediate in the oxidation of $\text{PtMe}_2(\text{bipy})$ ($\text{bipy} = 2,2'$ -Bipyridine) by $\text{IPh}(\text{C}, \text{CSiMe}_3)(\text{OTf})$ ($\text{OTf} = \text{Triflate}$)
M Sharma (021)

1120 Towards Metal Complexes with Multiple Valence Tautomeric Transitions
C Boskovic (004)

Selective Aggregation of a Pt-Gd Complex Within a Tumour Cell Nucleus
L Rendina (010)

Controlling Molecular Architecture in Tris-Chelate Complexes
N Fletcher (016)

Absolute Asymmetric Synthesis
M Hakansson (022)

1140 Lanthanoid Hydroxo Clusters - Plan, Make, Use!
M Massl (005)

Homo- and Heteroleptic Bismuth Arenesulphonates; Synthesis, Structure and Biological Activity
P Andrews (011)

Coordination behaviour of bis-pyridylimine ligands: polymers, metallamacrocycles and helicates
K Gloe (017)

Towards mechanism of catalytic hydroxylation of C1-C3 alkanes in mild conditions in the presence of Au-bioflavonoid complexes
A Shestakov (023)

1200 Redox Active Keggin-like $\{\text{Mn}_{13}\}$ Single Molecule Magnets
G Newton (006)

Interesting Observations between Kinetic and Crystallographic data of $[\text{Re}(\text{CO})_3(\text{L}, \text{L}')(\text{H}_2\text{O})]$ Compounds
M Schutte (012)

Synthetic, Thermodynamic and Structural Study of three Macrocyclic Ligands with a number of Metal Ions. Inductive versus Steric Effects
R Luckay (018)

Some metal complexes of artemisinin derivatives and chromium (II) tridentate Imino-pyridine substituted schiff base ($\text{N}^{\wedge}\text{N}^{\wedge}\text{N}$) - ethylene polymerization reaction
J Obaleye (024)

1220 Strong Ferromagnetic Interaction Observed in Linear Chain Rhodium(I)- Semiquinonato Complex
M Mitsumi (007)

Sc(III) and Ga(III) complexes of polydentate ligands for nuclear medicine. Solution and solid-state chemistry of overlooked metal ions.
P Hermann (013)

Soluble Graphene-based Ligands and Complexes
N Lucas (019)

Substantial Inverse Isotope Effects in the Hydrogen Atom Abstraction from L-Rh(III)-H/D+ Macrocyclic Complexes by Methyl Radicals in Aqueous Solutions
D Meyerstein (025)

Hall C

Meeting Rooms 1&2

Meeting Room 10

Meeting Room 11

1245 – 1345 **Lunch & exhibition**

Hall J&K

1345 – 1515 **Plenary 2**
Chair: L Lindoy

Plenary: Supramolecular chemistry

A supramolecular enzyme mimic: 10^6 -fold rate enhancement and chiral selectivity in a self-assembled host
K Raymond (026)

Keynote: Metals in synthesis (and catalysis)

"Naked" Metal Nanoparticles in Ionic Liquids from Metal Carbonyl Precursors: Synthesis, Characterization and Use as Hydrogenation Catalysts
C Janiak (027)

Hall C

1515 – 1545	Afternoon tea & exhibition				Hall J&K
1545 – 1740	Concurrent A2: Inorganic materials chemistry Chair: M Halcrow	Concurrent B2: Bioinorganic chemistry Chair: L Rendina	Concurrent C2: Supramolecular chemistry Chair: C Boskovic	Concurrent D2: Metals in synthesis (and catalysis) Chair: A Masters	
1545	Concurrent keynote: Macrocyclic Coordination Architectures Displaying Multiple Electron-Transfer Processes M Abe (028)	Concurrent keynote: Anisotropy in Vibrational Spectroscopy: Nuclear Resonance Vibrational Spectroscopy W Scheidt (033)	Concurrent keynote: Structural Diversity in Complexes from Nitrogen-Rich Hybrid Ligands A Hor (038)	Concurrent keynote: Covalent and Non-Covalent Assemblies for Catalysis M Gandelman (043)	
1615	Thioether-functionalised phosphanides - surprisingly non-innocent ligands E Clark (029)	Cu(II) bound to 5'-GMP and poly d(GC): Structural analysis by pulsed EPR spectroscopy B Spingler (034)	Proton-induced Tuning of Metal-metal Interaction in Dinuclear Ru Complexes Bearing Benzimidazolyl Ligand M Haga (039)	Metal complexes of benzimidazole-based N-heterocyclic carbene-pincer ligands D Brown (044)	
1635	New Vapochromic Hydrogen-Bonded Proton-Transfer Assemblies A Kobayashi (030)	Mn ²⁺ Complexes with Macrocyclic ligands: Thermodynamic, Kinetic, Crystallographic and ¹ H/ ¹⁷ O NMR Relaxation Studies I Lukes (035)	Chromium and Vanadium 3d/4f Systems and the Investigation of their Magnetic Properties J Rinck (040)	Unconventional Reactivity of an N-Heterocyclic Carbene Containing a 1,1'-Ferrocenediyl Backbone towards Small Molecules U Siemeling (045)	
1655	Putting the 'Spin' on Electron Transfer D D'Alessandro (031)	Bioinorganic and Inorganic Perspectives of Metal-Coordinated Radicals R Mukherjee (036)	Polyphosphorus Moieties in Coordination Chemistry M Scheer (041)	Piano Stool Complexes of N-Heterocycle Carbenes with Pendant Pyridyl Functionalities G Saunders (046)	
1715	Neutral-Ionic Transition in Covalent-Bonded Donor/Acceptor Assemblies H Miyasaka (032)	Hangman Corrole-Complexes as Biomimetic Models M Schwalbe (037)	Recent Developments in Carbon-rich Organoiron-based Molecular Wires F Paul (042)	New Insights into the Structures and Reactivity of Organocuprates and Amidocuprates R Davies (047)	
	Hall C	Meeting Rooms T&2	Meeting Room 10	Meeting Room 11	
1900 – 2100	Alan Sargeson and Hans Freeman memorial session Chair: G Lawrance Biotransformations and Mechanisms of Action of Ruthenium Anti-Cancer Pro-Drugs P Lay (048) Structure and Function of Copper-Containing Amine Oxidases D Dooley (049) 2-Iminocarboxylates at Cobalt(III): Synthesis, Reactivity and Stereoselectivity A Hammershøi (050) Using structural databases to develop and test models of metal-ligand bond deformation T Hambley (051) Metallo-Supramolecular Strategies for Assembling New Nanoscale Molecular Structures L Lindoy (052)				Meeting Rooms 1&2
2100 – 2200	Post session drinks				

TUESDAY 27 JULY

0800 – 1700	Registration				Hall K
0830 – 1000	Plenary 3 – Stanley Kirschner memorial lecture Chair – J Reedijk Plenary: Inorganic materials chemistry Evolution of Porous Coordination Polymers S Kitagawa (053) Keynote: New challenges: energy and the environment Light driven generation of hydrogen from water: New developments, new strategies and new results R Eisenberg (054)				Hall C
1000 – 1030	Morning tea				Hall J&K
1030 – 1245	Concurrent A3: Inorganic materials chemistry Chair: C Janiak	Concurrent B3: Bioinorganic chemistry Chair: T Hambley	Concurrent C3: Supramolecular chemistry Chair: A Hor	Concurrent D3: Werner complexes Chair: A Blackman	
1030	Concurrent keynote: Syntheses and Cubic NLO Properties of Arylalkynylruthenium Dendrimers and Related Complexes M Humphrey (055)	Concurrent keynote: Dinuclear Ruthenium(II) Complexes as Selective Binding Agents for Non-Duplex DNA R Keene (061)	Concurrent keynote: Self-assembly of spherical structures A Williams (067)	Concurrent keynote: What's in a chemical shift? High Resolution ¹⁹⁵ Pt NMR as a tool in understanding the deceptively simple Pt(II/IV) chemistry in process solutions relevant to PGM separation and refining. K Koch (073)	

1100	The Effect of Metal-Metal Interactions on Stacked Mononuclear and Dinuclear Rhodium 2,2' - biimidazole Carbonyl Complexes P Hirva (056)	Ruthenium(II) Cyclopentadienyl Full-Sandwich Complexes for the Treatment of Cancer and other Disease States B Loughrey (062)	A Chiral Calixarene Hydrogelator Tuned by Adding Salts, Switched with pH M Ogden (068)	Quantification of Luminescence Quenching by C-H-Oscillators in Near-IR Emitting Lanthanoid Bipyridine Cryptates M Seitz (074)
1120	Metalloamphiphiles as Functional Materials G Koutsantonis (057)	Photo-activated Cytotoxins - Synthesis and Photochemistry of Heterodinuclear Ru(II)-Co(III) Complexes R Hartshorn (063)	Coordination Chemistry Beyond the Molecules: A Short Analysis and Applications of a New Method for the Description of Closed Coordination Clusters G Kostakis (069)	Kinetico-mechanistic studies on the formation of discrete cyanide-bridged polynuclear mixed valence compounds M Martinez (075)
1140	Discovery and Development of Crystalline Chalcogenide Clusters Containing ZnS Cores J Xie (058)	Towards molecular transporters on lipid bilayers: Photocleavage of polypyridyl ruthenium complexes from model membranes, and back coordination S Bonnet (064)	Molecular Alloys - Supramolecular Selection and Concentration Gradients in Crystals J McMurtrie (070)	Syntheses and Properties of Complexes having Pt->M (M = Au, Hg) Dative Bond T Yamaguchi (076)
1200	Ru(II) polypyridine complexes attached to Ag nanoparticles in fractal aggregates: Evaluation of factors influencing surface-enhanced optical processes B Vlickova (059)	Ruthenium(II) polypyridyl complexes: cellular DNA binding and cytotoxicity M Gill (065)	Isothermal Titration Calorimetry of Simple Complexes and Helicates S Clifford (071)	The Electronic Structure of Tris(dithiolene) Complexes of Vanadium and Rhenium: Where are the (Valence) Electrons? S Sproules (077)
1220	On the fabrication and stabilization of copper-based nanoparticles for catalysis A Wheatley (060)	Protonation induced spin-flip in Fe(II)-peroxo and -hydroperoxo complexes G Christian (066)	Neutron Diffraction Studies of Hydrogen-Bonding Networks in Hydrated Ln/K Complexes D Turner (072)	Syntheses of Ruthenium Complexes Bearing N-Ethyl-N,N-bis(pyridylmethyl)amine by Chloro Ligands Dissociation Accompanying a Metal-center Reduction H Nagao (078)

Hall C

Meeting Rooms 1&2

Meeting Room 10

Meeting Room 11

1245 – 1345	Lunch & exhibition				Hall J&K
1345 – 1515	Concurrent A4: Inorganic materials chemistry Chair: J A Real Cabezas	Concurrent B4: Bioinorganic chemistry Chair: K Lo	Concurrent C4: Other Chair: P Tasker	Concurrent D4: Werner complexes Chair: E Coronado	
1345	Concurrent keynote: Spintronics Based on Single-Molecule Quantum Magnets M Yamashita (079)	Concurrent keynote: Stability of the Coordination Bond between the Heme Fe Atom and N-Terminal Amino Group in Denatured Hydrogenobacter thermophilus Cytochrome c552 and Its Effect on the Overall Protein Stability Y Yamamoto (083)	Concurrent keynote: Mono- bis- and tris- Imido Complexes of Uranium J Boncella (087)	Concurrent keynote: Computational Coordination Chemistry: Harnessing the Full Potential of DFT R Deeth (091)	
1415	Iron(II) triazole complexes: mono-, di- and tri-nuclear SCO complexes S Brooker (080)	Probing the nature of the Co(III) ion in cobalamins: a comparison of the physical and coordination properties of aquacyanocobester and an aquacyano-stable yellow corrinoid H Marques (084)	Lanthanoid and group 2 complexes involving aryloxide ligands of moderate steric bulk P Junk (088)	Solvent Exchange on Homoleptic Acetonitrile Lanthanide Complexes L Helm (092)	
1435	Fe(II) spin crossover compounds based on 1-functionalized tetrazoles - a comparative study to elucidate the structure-property relationship P Weinberger (081)	A di-imine copper(II) complex exhibiting a peculiar reactivity regarding its binding to albumin protein A M Da Costa Ferreria (085)	Nature of the pnictogen - chalcogen bonds; from diatomic to complex organometallic molecules. M Kubicki (089)	Stabilisation of Oxoanion Chelates through Steric Inhibition of Protonation: Co(III) Complexes containing Bidentate HCO ₃ ⁻ and HPO ₄ ²⁻ A Blackman (093)	
1455	Guest-tunable Spin Crossover of Discrete Iron(II) Complexes of the Asymmetric Ligand N-((1H-imidazol-4-yl)methylene)-1-(pyridine-3-yl)methanamine (3-impy) D Price (082)	Designing ⁶⁴ Cu complexing agents for use in Molecular Imaging and Personalised Medicine S Smith (086)	Rhodium Chemistry of Nicotinamide-Functionalized N-Heterocyclic Carbene Ligands Designed for Hydride Ion-Carrier Capacity S Colbran (090)	Mixed Valence Chemistry of Dimers of Oxo-carboxylato Triruthenium Complexes H Ohtsu (094)	

Hall C

Meeting Rooms 1&2

Meeting Room 10

Meeting Room 11

THURSDAY 29 JULY

0800 – 1700 **Registration**

Hall K

0830 – 1000 **Plenary 6**
Chair: R Keene

Plenary: Inorganic materials chemistry

The Versatility of Metal-Ligand Building Blocks - From Design to Assembly and Photofunctions **V W-W Yam** (122)

Keynote: Bioinorganic chemistry

A Highly Stable Functionalizable Platform Chelate for Ga Isotopes **C Orvig** (123)

Hall C

1000 – 1030 **Morning tea & exhibition**

Hall J&K

1030 – 1245 **Concurrent A6: Inorganic materials chemistry**
Chair: A Powell

Concurrent B6: Bioinorganic chemistry
Chair: R Scheidt

Concurrent C6: Supramolecular chemistry
Chair: A Williams

Concurrent D6: Don Stranks presentations, RACI
Chair: P Bernhardt

1030 **Concurrent keynote:**
Combining Multiple Functions within Metal-Organic Framework Materials
C Kepert (124)

Concurrent keynote:
Simultaneous Imaging of Cell Hypoxia and Cobalt Prodrug Activation in Spheroids Constructed from Transfected Cells
T Hambley (130)

Concurrent keynote:
Spin Switching, Photomagnetism and Supramolecular Effects in Polynuclear Iron(II) triazine-dipyridylamine and Linked - Tris(pyrazolyl)methane Compounds
K Murray (136)

Boron Rich DNA Metallointercalators for Boron Neutron Capture Therapy
V Ching (142)

1100 Post-synthetic Modification and Metalation of Metal-organic Frameworks
C Doonan (125)

PhotoCORMs - manganese tricarbonyl complexes and their bioconjugates for the targeted delivery of carbon monoxide to cellular systems
U Schatzschneider (131)

Modular Homochiral Porous Coordination Polymers: Rational Design, Enantioselective Sorption and Catalytic Properties
V Fedin (137)

Photo-activated Cytotoxins - Heterodinuclear Ru(II)-Co(III) Complexes with Potential Future Application as a Selective Cancer Treatment
A Downward (143)

1120 Host-Guest Chemistry of One-Dimensional Cu(II) Coordination Polymer
S Noro (126)

Physiologically-active diguanosine polyphosphates – synthesis, conformation, and properties of Ca²⁺-complexes
B Fischer (132)

Dehydration/resolution studies of Metal Organic Framework compounds involving some First Row Transition Metal(II) cations and 1, 2, 4, 5-Benzenetetracarboxylic Acid
G Watkins (138)

Complexes of Bis(thiosemicarbazonato) Ligands for Amyloid Imaging in Alzheimer's Disease
S Lim (144)

1140 Microporous Metal-Organic Frameworks Based on Pillared Kagome Layers Showing Peculiar Adsorbate Selectivity
M Lah (127)

Structural and equilibrium studies on complexes of Ca²⁺ and gluconate ions in the aqueous phase
A Pallagi (133)

Crystal Engineering: Synthesis and structures of supramolecular polymers with wavelike properties
O Steward (139)

Negative Thermal Expansion in Porous Framework Materials
L Cameron (145)

1200 Hydrogen and Methane Storage with lightweight metal-organic frameworks
M Hill (128)

Examining the Role of Iron and Manganese Coordination Chemistry in Neurodegenerative Disorders
M Mehn (134)

Features of the coordination chemistry, structure and networks formation of polyphosphorylporphyrins
Y Gorbunova (140)

Design & Characterization Of Luminescent Iridium (III) Complexes For Potential Optoelectrochemical Sensing Applications
R Kiran (146)

1220 Transition Metal Coordination Polymers from Functionalized 1,2,3-Triazoles
S Bai (129)

Diagnostic Imaging Agents based on Copper-64: Attachment of a Cage Amine Ligand to Cancer-Targeting Peptides
M Ma (135)

Reversible and Selective O₂ Binding in a Metal-Organic Host
P Southon (141)

Solid-State Interactions of Hexaaryl[3]-radialenes with Metal Cations and Anions
C Hollis (147)

Hall C

Meeting Rooms 1&2

Meeting Room 10

Meeting Room 11

1245 – 1345 **Lunch & exhibition**

Hall J&K

1345 – 1515 **Concurrent A7: Inorganic materials chemistry**
Chair: M Humphrey

Concurrent B7: Bioinorganic chemistry
Chair: H Marques

Concurrent C7: Metals in synthesis (and catalysis)
Chair: K Koch

Concurrent D7: New challenges: energy and the environment
Chair: R Eisenberg

1345 **Concurrent keynote:**
Soft Spin Crossover Compounds with Multifunction
S Hayami (148)

Concurrent keynote:
Luminescent Cyclometalated Iridium(III) Polypyridine Complexes as Biological Labels and Probes
K Lo (152)

Concurrent keynote:
Multifaceted P,N Ligands in Coordination Chemistry and Homogeneous Catalysis
E Hey-Hawkins (156)



Concurrent keynote:
Outer sphere coordination chemistry - new ligands for extractive metallurgy
P Tasker (160)

1415 High-Frequency and -Field EPR Spectroscopy of Mono- and Polynuclear Complexes of Rhenium(IV)
J Krzystek (149)

O₂ and H₂O Activation by Complexes with Carboxylato-Containing Pentadentate Ligands
C McKenzie (153)

(PCP) palladium complexes. Solid state structures and mechanism of CO₂ insertion into allyl and methyl σ -bonds
O Wendt (157)

Solution Behaviour of f-Element Coordination Compounds
M Loeble (161)

1435	Photo-Induced Charge Separation in Pt(II) Molecular Cascades J Best (150)	Efficient O-O bond formation mediated by iron(IV)oxo intermediates K Ray (154)	Hybrid Stacked/Laddered Organolithium Aggregates: A Structural Hypothesis for SuperBase Reactivity M Gardiner (158)	Redox-Active Monolayers: From Molecule-based Sensors to Molecular Logic and Memory Elements. G de Ruiter (162)
1455	Spectroscopic, spin, and magnetic properties of amidate-bridged platinum chain complexes of delocalized or itinerant electrons K Matsumoto (151)	In situ Mn K-edge XAS study of Sustained Water Oxidation by a biomimetic catalyst: New Insights into the origin of water oxidation R Hocking (155)	An in situ HP-FTIR Spectroscopic Study of Phosphite Modified Hydroformylation D Selent (159)	Preparation and Characterization of Copper(II)-Terpy Complexes in Zeolite Y Cages S Yamaguchi (163)
<div><div>Hall C</div><div>Meeting Rooms 1&2</div><div>Meeting Room 10</div><div>Meeting Room 11</div></div>				
1515 – 1545	Afternoon tea & exhibition			
1545 – 1645	Concurrent A8: Inorganic materials chemistry Chair: G Koutsantonis	Concurrent B8: Other Chair: M Hardie	Concurrent C8: Metals in synthesis (and catalysis) Chair: K Koch	Concurrent D8: New challenges: energy and the environment Chair: R Eisenberg
<div><div> Ansto</div><div>ANSTO logo and text</div></div>				
1545	Efficient Charge Transfer Antenna Tetrathiafulvalene Ligand for the Sensitization of Yb(III) Luminescence L Ouahab (164)	Single crystal diffraction studies in coordination chemistry - Neutron diffraction becoming an accessible technique A Edwards (167)	Cyclopalladated Complexes: Application in Catalytic Transformations Of Unsaturated Hydrocarbons S Mapolie (170)	Rhenium(II) carbonyl-diimine photosensitizers: fluorescence, phosphorescence, ultrafast dynamics and function A Visek (173)
1605	Sensitised Trivalent Lanthanoid Luminescence in the Visible and Near Infra-Red E Moore (165)	Recent results from ANSTO's Neutron Scattering/ Deuteration Facility A Edwards (168)	Ethylene Tetramerisation: Diphosphinoamine Ligand Evaluation in Metal-Based Catalyst Precursor Models A Roodt (171)	Hydrogen Delivery and Storage: Ruthenium(II)-Phosphine Complexes for High Pressure H2 Production from Formic Acid G Laurenczy (174)
1625	Design and Studies of New Class of Readily Tunable Isocyanide Rhenium Diimine Luminophore C Ko (166)	Recent results from ANSTO's facilities/research in applications of radioisotopes in solving medical, industrial and environmental issues S Smith (169)	Synthesis, Structural Characterization and Reactivity of Zerovalent Mono- and Binuclear Platinum-Carbonyl-Diphosphine Complexes S Schreiner (172)	Four-electron Oxidation of Water through Intramolecular Oxygen-oxygen Coupling on Dinuclear Ru Complexes K Tanaka (175)
<div><div>Hall C</div><div>Meeting Rooms 1&2</div><div>Meeting Room 10</div><div>Meeting Room 11</div></div>				
1645 – 1800	Poster session 2 Networking drinks, please refer to the abstract list for poster details			
1900 – 2330	Conference dinner Proudly sponsored by ANSTO			
<div><div> Ansto</div><div>ANSTO logo and text</div></div>				
<div><div>Hall C</div><div>Hall J&K</div><div>Hall G</div></div>				

FRIDAY 30 JULY

0830 – 1200	Registration	Hall K
0900 – 1030	Plenary 7 Chair: K Wainwright	
	Plenary: Metals in synthesis (and catalysis) Bond Activation Chemistry with Uranium Complexes P Arnold (176)	
	Keynote: Supramolecular chemistry Star-burst prisms and polymers: nano-scale hosts, new topologies and more M Hardie (177)	Hall C
1030 – 1100	Morning tea	Hall J&K
1100 – 1200	Plenary 8 – Burrows Award Lecture, Inorganic Chemistry Division of the RACI Chair: P Bernhardt	
	Plenary: Bioinorganic chemistry How does Biology Cope with Copper? It is Toxic but Essential A Wedd (178)	Hall C
1200 – 1230	Closing Ceremony	Hall C
	The 2010 AGM of the Inorganic Division of RACI will be held shortly after the closing ceremony	Hall C



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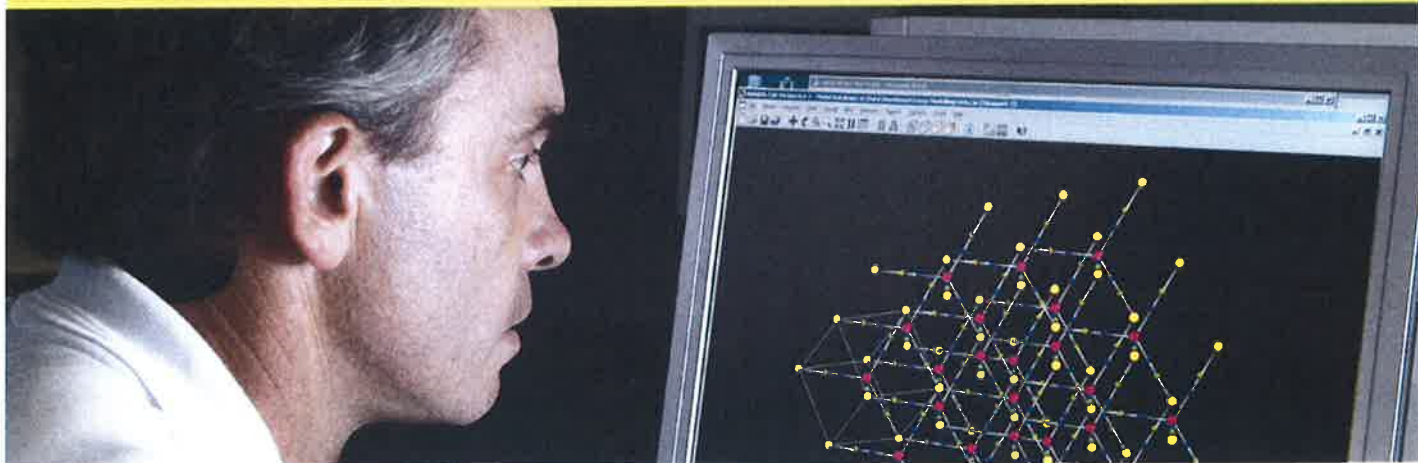
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Social Program

Conference Events

Welcome Reception

Adelaide welcomes you to ICC39 at the official welcome reception of the conference. Renew old acquaintances and form new friendships over informal drinks and canapés.

Date: Sunday 25 July

Time: 1730 – 1930

Venue: Hall K, Adelaide Convention Centre

Dress code: Smart casual attire

Tickets: Complimentary for fulltime delegates

Additional tickets: AUD65

** Delegates will be provided with a list of recommended restaurants should they wish to dine after the reception.*

Conference Dinner

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Enjoy the unique blend of food and wine that South Australia is famous for at the ICC39 conference dinner.

Date: Thursday 29 July

Time: 1900 – 2330

Venue: Hall G, Adelaide Convention Centre

Dress code: Smart casual attire

Tickets: AUD100 – Additional for all attendees

Poster Sessions

Posters will be on display throughout the conference, split over 2 sessions. Poster session 1 will commence on Monday morning until Tuesday evening. Poster session 2 will commence on Wednesday morning until Thursday evening.

Poster Session Networking Drinks

Date: Tuesday 27 July 2010

Time: 1645 – 1800

Venue: Exhibition Halls J & K

Poster Session Networking Drinks

Date: Thursday 29 July 2010

Time: 1645 – 1800

Venue: Exhibition Halls J & K

Conference Tours

For delegates and their accompanying persons

Wednesday 28 July

Adelaide Hills Wine Tour

Half day tour

Time: 1245 – 1800

Inclusions: Wine tasting, shared regional platters, tea/coffee, chocolate tasting and all transport

What to wear: Flat shoes preferable

Suitable age: Adults 18+ (Children to be accompanied by an adult)

Cost: AUD77 per person

McLaren Vale Wine Tour Including Dinner

Half day and evening tour

Time: 1245 – 2230

Inclusions: Wine tasting, shared regional platters, tea/coffee, chocolate tasting, 3 course dinner including wines and all transport

What to wear: Flat shoes preferable

Suitable age: Adults 18+ (Children to be accompanied by an adult)

Cost: AUD157

Hahndorf, Warrawong Wildlife Sanctuary & Mount Lofty Summit

Half day and evening tour

Time: 1500 – 2200

Inclusions: Coach, guided tour

Cost: AUD122 per person (dinner not included)

Bushwalking in the Adelaide Hills

Half day tour

Time: 1300 – 1700

Inclusions: Transport, specialist guide, refreshments

Cost: AUD82 per person

A Glimpse of Aboriginal Culture "Kurrendi Kumanga – Walking Together"

Half day tour

Time: 1300 – 1700

Inclusions: Aboriginal cultural guide, entrance fees, museum tour and tastings

Cost: AUD97 per person

Cleland Wildlife Park

Half day tour

Time: 1300 – 1700

Inclusions: Transport, guide, entrance fees

Cost: AUD102 per person

Adelaide Zoo Panda Tour

Half day tour

Time: 1300 – 1700

Inclusions: Walking tour, guide, entrance fees and afternoon tea

Cost: AUD102

Accompanying Persons Tours

Monday 26 July 2010

Adelaide's Cultural Heritage

Half day tour

Time: 0930 – 1230

Inclusions: Guide, entrance fees

Cost: AUD57 per person

Tuesday 27 July 2010

Secrets and Surprises of the Adelaide Hills

Full day tour

Time: 0900 – 1700

Inclusions: Transport, guide, lunch, entrance fees, and morning tea

Cost: AUD157 per person

Thursday 29 July 2010

A William Morris Discovery Tour 'Look into the Interiors'

Half day tour

Time: 0930 – 1300

Inclusions: Coach, guide, entrance fees and morning tea

Cost: AUD102 per person

Social Program Cancellation Policy

The conference reserves the right to cancel or vary optional activities if the minimum numbers are not reached. Regrettably, optional social functions and additional ticket cancellations cannot be refunded if participation is cancelled less than 72 hours prior to the event.

Industry Exhibition



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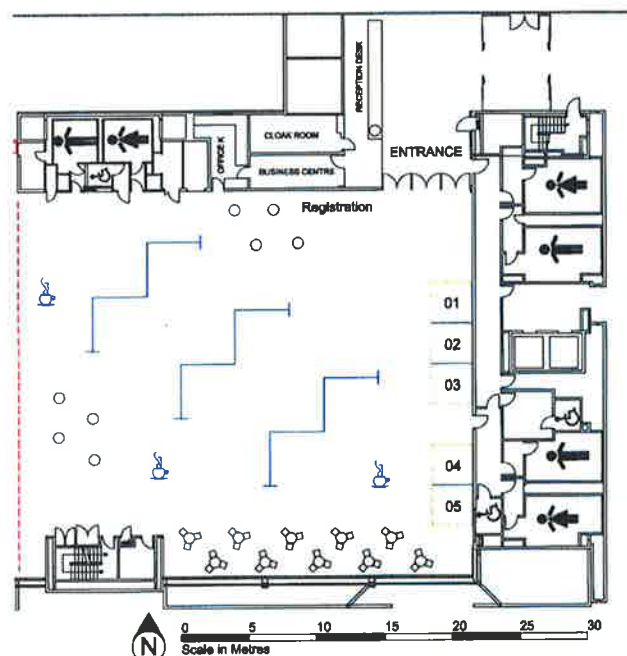
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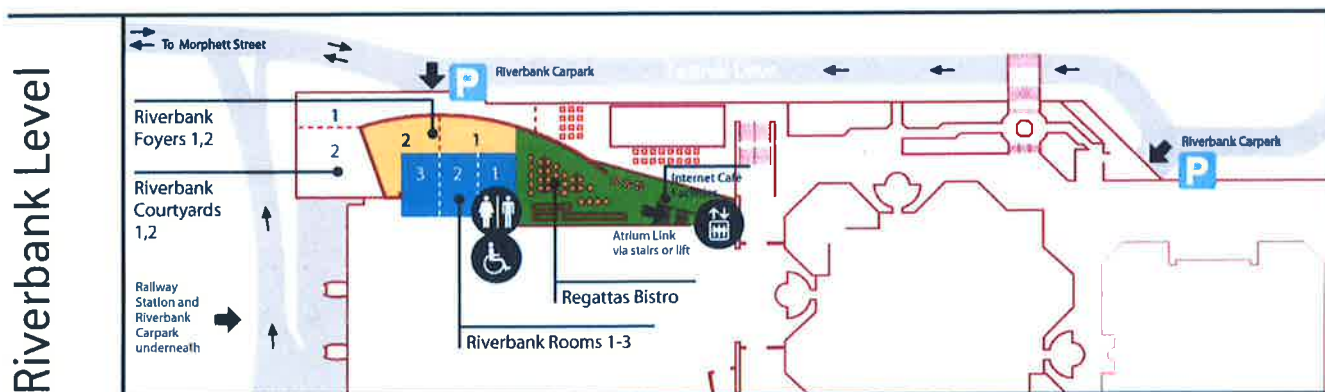
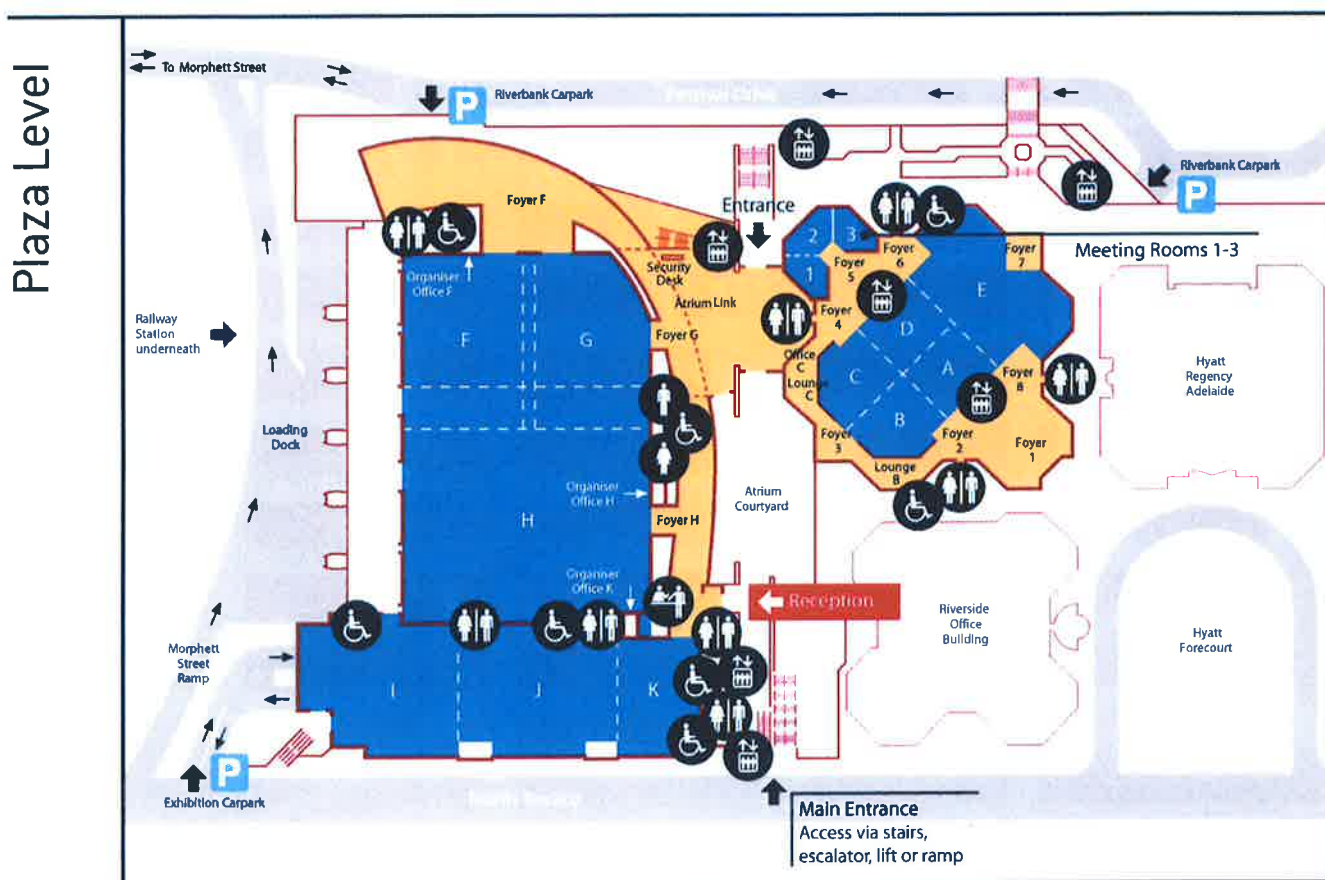
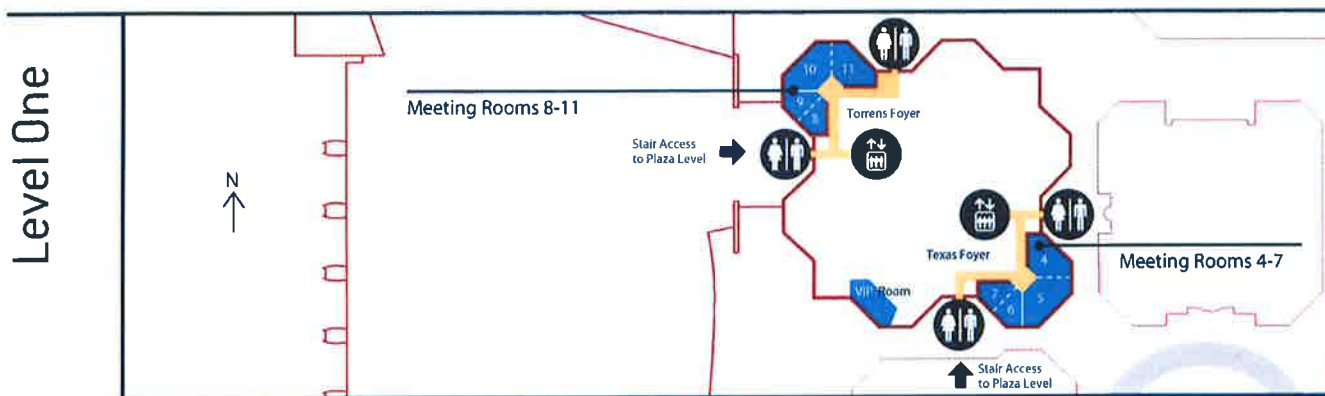
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Adelaide Convention Centre



Map of Adelaide



- | | |
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| 4. Adelaide City Council | 15. Adelaide City Council |
| 5. Adelaide City Council | 16. Adelaide City Council |
| 6. Adelaide City Council | 17. Adelaide City Council |
| 7. Adelaide City Council | 18. Adelaide City Council |
| 8. Adelaide City Council | 19. Adelaide City Council |
| 9. Adelaide City Council | 20. Adelaide City Council |
| 10. Adelaide City Council | 21. Adelaide City Council |



Other Useful Information

Venue

Adelaide is home to Australia's first purpose-built convention centre. The Adelaide Convention Centre is a world-class facility and home of the ICC39. Magnificently refurbished and recently expanded, it overlooks the picturesque River Torrens. The award winning Adelaide Convention Centre is consistently ranked among the world's top convention centres with a global reputation for quality. The facilities include the recently renovated plenary hall, various meeting rooms and exhibition halls.

For further information about the venue visit www.adelaidecc.com.au

Adelaide Convention Centre
North Terrace, Adelaide SA 5000
(08) 8212 4099

South Australian Visitor and Travel Centre
18 King William Street, Adelaide SA 5000
1300 655 276

ATMs and Foreign Exchange Services

Westpac Bank is located at 1 King William Street (on the corner of King William Street and North Terrace). The American Express Foreign Exchange is located within the Westpac Banking Corporation at 1 King William Street as well as Shop 32, CitiCentre Arcade, Rundle Mall.

Travelex is also located in the Adelaide CBD at Shop 4, Beehive Corner (corner of Rundle Mall and King William Street). Travelex hours of operation are listed below:

Monday	0900 – 1730
Tuesday	0900 – 1730
Wednesday	0900 – 1730
Thursday	0900 – 1730
Friday	0900 – 1800
Saturday	0900 – 1700
Sunday	Closed

Messages

A message board will be located at the registration desk. Please advise potential callers to contact the Adelaide Convention Centre on telephone +61 (0)8 8212 4099 and ask for the ICC39 registration desk. No guarantee can be given to deliver messages personally.

Personal Mail

The conference managers do not accept responsibility for personal mail. Please have mail sent to your accommodation address.

Climate

The average maximum temperature of Adelaide in July is 15°C (59°F).

Dress

Smart casual attire is appropriate for conference sessions, the welcome reception and conference dinner. A jacket may be required for air-conditioned conference session rooms.

Special Diets

Delegates who have specified their special dietary requests on their registration forms should identify themselves to the service staff at functions.

Website

<http://iccc2010.eventplanners.com.au>

Accommodation Venues



InterContinental Adelaide
North Terrace
(08) 8238 2400



Sebel Playford
120 North Terrace
(08) 8213 8888



Majestic Roof Garden
55 Frome Street (adjacent Rundle Street)
(08) 8100 4400



Hotel Grand Chancellor Adelaide on Hindley
Hindley Street
(08) 8231 5552



Mercure Grosvenor Hotel
North Terrace
(08) 8407 8888



Oaks Embassy
North Terrace
(08) 8124 9900



Royal Adelaide Hospital
North Terrace, Residential Wing, Hospital Grounds
(08) 8222 5169

Conference Information

Delegate Information

Conference Venue

Adelaide Convention Centre
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F: (08) 8212 5101
W: www.adelaidecc.com.au

The Adelaide Convention Centre enjoys a global reputation for excellence and is consistently ranked among the world's top Convention Centers'.

Conference Registration Desk

The registration desk will be located in Hall K at the Adelaide Convention Centre, and will be staffed at the following times:

Sunday 25 July 2010	1200 – 1700
Monday 26 July 2010	0700 – 1700
Tuesday 27 July 2010	0800 – 1700
Wednesday 28 July 2010	0800 – 1300
Thursday 29 July 2010	0800 – 1700
Friday 30 July 2010	0800 – 1230

Registration Entitlements

Fulltime and student registration includes:

- Admission to all scientific sessions
- Industry exhibition admission
- Welcome reception
- Conference program book and other conference materials
- Morning and afternoon teas and lunches (as per the conference program)

Note: Fulltime registration does not include the conference dinner.

Intention to Photograph

Delegates and others are advised that photographs may be taken during the conference and reproduced for promotional purposes.

Internet Facilities

Wireless internet connection can be purchased from the Adelaide Conventions Centre's reception desk. A charge of \$10 for 1 hour of usage applies. The Adelaide Convention Centre also provides a business centre, costs for use are listed below.

- \$6 for 30 minutes
- \$10 for 1 hour with each additional 30 minutes costing \$5

Useful Visitor Information

Hospitals

St Andrew's Hospital

350 South Terrace, Adelaide
T: (08) 8408 2111

Royal Adelaide Hospital

North Terrace (eastern end)
T: (08) 8222 4000

Women's and Children's Hospital

72 King William Road, North Adelaide
T: (08) 8161 7000

Emergency Details

Dial 000 if you need police fire or ambulance. When you phone 000 a Telstra operator will answer your call and ask whether you need police, fire or ambulance. The operator will then connect you to a qualified person in that field of work.

Airport/Hotel Transfers

Adelaide Airport is located six kilometers due west of the Central Business District and is easily accessible by all modes of transport including car, taxi and bus.

The State transit website (www.adelaidemetro.com.au) has useful information regarding public transport options, including a trip planner function that will provide you with detailed information on how to get there.

Delegates will be required to make their own arrangements for transfer from their hotel to the airport.

Public Transport

Adelaide is an easy city to get around in. Public transport provides access for visitors to most major areas in both the city square mile and the suburbs. Taxis are plentiful too. Adelaide's 'City Free' is a free service for commuters who want to move through the city quickly. Buses travel along an inner city route, and trams travel through the middle of the city along King William Street, making it convenient for delegates to move around the central business district, accessing major venues and shopping facilities. For a round trip of Adelaide, delegates can also take a trip on the City Loop Bus Service. This cross suburban route circles Adelaide in both clockwise and anti-clockwise directions and crosses every main road leading to the city.

Taxis

There is a taxi rank immediately in front of the Adelaide Convention Centre on North Terrace. There are additional ranks along North Terrace close to the convention centre. Taxis are available from the following agencies.

Adelaide Independent Taxis:

T: 13 22 11
W: www.aitaxis.com.au

Suburban Taxis:

T: 13 10 08
W: www.suburbantaxis.com.au

Yellow Cab Company:

T: 13 22 27
W: www.yellowcabgroup.com.au

Bus

The Adelaide Convention Centre is well serviced with a number of bus routes running past on North Terrace, including a free bus running throughout the CBD www.transadelaide.com.au. Free trams are available outside the Adelaide Convention Centre on North Terrace. The tram is free from North Terrace along King William Street to South Terrace.

Parking

The Adelaide Convention Centre operates both the Riverbank and Exhibition car parks, which are open 24 hours a day, 7 days a week. The car parks are under the Convention Centre (Riverbank) and beneath the exhibition hall. In total, 1250 spaces are available and provide easy access to the Adelaide Convention Centre, exhibition hall and Adelaide Plaza.

The following rates apply and prices are GST inclusive.

Casual Parking

\$1.50 - First half hour or part thereof

\$2.00 - 2nd half or part thereof

\$3.50 - 2nd hour or part thereof

\$2.00 - 3rd hour or part thereof

\$1.00 - per hour after that to a maximum of \$24.00 per 24 hour period

Early Bird Parking

\$9.00 - every day (in between 0500 and 0930 and out by 1830). Beyond 1830 casual rates will apply starting from the first hour as below and up to a maximum of \$24.00 for any 24 hour period.

Voucher — Pay as you use by the hour/single entry and exit. Parking is based on casual spaces available at the time of entry.

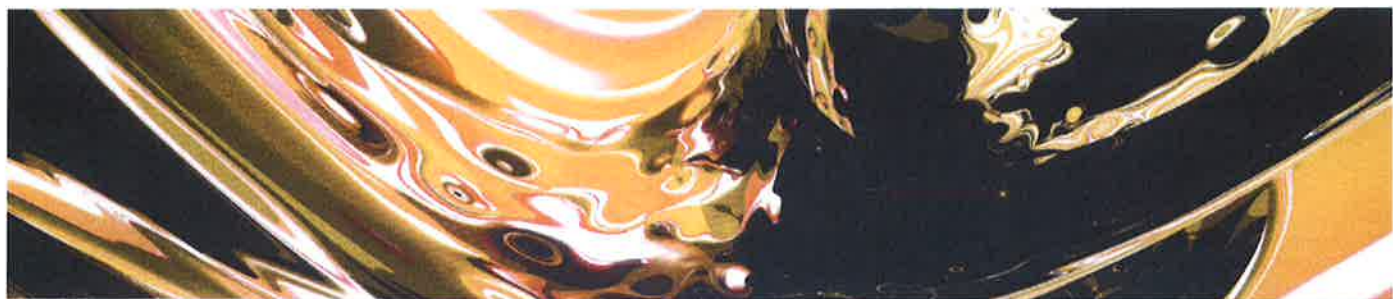
For further information regarding car parking rates and services at the Adelaide Convention Centre, call the car park manager directly on (08) 8210 6740 or email charless@adelaidecc.com.au.

Disabled Access

Elevators provide access from the car parks, street level and between all floors. The Adelaide Convention Centre has taken particular care to ensure all signage is large enough to be read by the visually impaired and staff are trained to speak clearly when making announcements to public areas. Hearing induction loops can be made available in any location.

Tourist Refund Scheme

International travellers can claim back the goods and services tax (GST) and wine equalisation tax (WET) they have paid on goods bought in Australia that they are taking with them when they leave the country. The tax can be claimed back at international airports and seaports under the Tourist Refund Scheme (TRS), subject to conditions such as an AUD300 minimum purchase from one store, and the goods must be hand carried or worn on board the aircraft or ship. Details on the TRS are available on www.customs.gov.au on the 'advice for travellers' page.



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Monday 26 July 2010

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A new Approach towards Functional Biomimetic Model Systems for Binuclear Nonheme-Iron-Oxo Enzymes	<u>B Burger</u> , S Wöckel, S Dechert, S Demeshko and F Meyer	208 (008)
Isomerisation of Pt(II) and Pd(II) square-planar complexes with 6-benzylaminopurine derivatives: A Quantum Chemical Study	<u>M Cajan</u> and A Kalup	209 (009)
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Spectral investigation of the inclusion compound Al-quercetin/Î²CD and a comparative study of its electrochemical behaviour and antioxidant ability.	<u>K Dias</u> , S Nikolaou and W F De Giovani	216 (016)
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Phosphate ester cleavage promoted by a tetrameric iron(III) complex	<u>L Gahan</u> , A Kantacha, R Buchholz and S Gerhard	219 (019)
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Cell permeable fluorescent Cu(II) complexes for the monitoring of intracellular metal ion behaviour and detection of pathological hallmarks of Alzheimer's disease	<u>J Hickey</u> , G Buncic, K Price, J White, A Wedd, A White and P Donnelly	223 (023)
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The Investigation of New Dinuclear Cobalt Complexes with Redox-Active Ligands	<u>K Alley</u> , P Robinson, C Ritchie, A Nafady, B Moubaraki, K Murray, A Bond and C Boskovic	229 (029)
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The Effect of Sulfur-based Substituents on the Electronic Properties of Re(I) dppz complexes.	<u>M Fraser</u> , A Blackman K Gordon	244 (044)
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Heteropolynuclear molybdenum (V) complexes - precursors of the catalytic clusters of low valence molybdenum with Na, K, Mg as a heteroatom	<u>T Bazhenova</u> , D Kuznetsov, Y Manakin, T Savinykh and K Lyssenko	256 (056)
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Chiral Amines and Diamines from Monosaccharides as Ligands in Transfer Hydrogenation of Acetophenone	<u>M Böge</u> , C Fowelin, S Lerch and J Heck	259 (059)
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Reduction of Chelating Bis(NHC)Pd(II) Complexes to $[\mu\text{-bis(NHC)}_2\text{Pd}_2\text{H}]^+$: Novel Pd(I)-Pd(I) Bonded Species with a Terminal Hydride and a Pd(I)-H-Pd(I) Complex Lacking a Pd-Pd Bond	A Riapantira, P Boyd, A Edwards, <u>M Gardiner</u> , M Lemée-Cailleau, D McGuinness, D Stringer and B Yates	267 (067)
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Manganese Phthalocyanine: Variety of Coordination Forms	<u>O Dolotova</u> , G Meerovich, V Negrimovsky and O Kaliya	271 (071)
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Mechanism for the reaction of Head-to-Head pivalamidato-bridged cis-diammineplatinum(III) binuclear complex with isoprene	<u>K Ishihara</u> , J Nagashima, S Iwatsuki and K Matsumoto	273 (073)
Solvent extraction of silver(I) ion with 9-aza-3,6,12,15-tetrathiaheptadecane derivatives: effect of N-substituents on extraction behavior	<u>S Iwatsuki</u> , A Ichiyama and K Chayama	274 (074)
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Effectiveness of CPL Spectroscopy for Investigating the Diastereopurity of Chiral Ln(III)-Containing Complexes	<u>G Muller</u> , K Do and A J Ingram	276 (076)
Anion directed formation of metallo-macrocyclic complexes and coordination polymers incorporating flexible amide ligands	<u>M Abdul-Kadir</u> , L Hanton and C Sumby	277 (077)
Preparation and polarized electronic spectra of hybrid materials of chiral Schiff base Ni(II) and Cu(II) complexes and photochromic compounds in PMMA films	<u>T Akitsu</u> and Y Miura	278 (078)
Polarized electronic and IR spectra of hybrid materials of chiral Mn(II) complexes and photochromic compounds exhibiting Weigert's effect	<u>T Akitsu</u> and R Tanaka	279 (079)
Controlled buildup of supramolecular structures by alkali metal induced self-assembly of transition metal(II) complexes	<u>A Beyer</u> and N Burzlaff	280 (080)
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Discrete Coordination Compounds as Building Blocks for Metal Organic Frameworks	<u>M Cowan</u> and S Brooker	283 (083)
Tetranuclear complexes of transition metals with ligands containing benzimidazole, alcohol and carboxylic acid groups	<u>C Deville</u> , A Spyratou and A Williams	284 (084)
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Tuneable Negative Thermal Expansion in Cyanide-Bridged Lanthanoid Coordination Frameworks	<u>S Duyker</u> , V Peterson and C Kepert	286 (086)
A Modular Approach to Rhenium(II) Sensors	<u>N Fletcher</u> , H J Montgomery, D Pelleteret and S J Bell	287 (087)
Cu(II) catalysed coupling of imidazoles: synthesis and new supramolecular topologies using biimidazoles.	<u>J Gulbransen</u> and C Fitchett	288 (088)
Metallo-Supramolecular Actuation with Dynamic Pincer Ligands	<u>L Hanton</u> , A Blackburn and S Moratti	289 (089)
Formation of Metal-Assisted Stable Double Helices in Dimers of Cyclic Bistetrapyrroles that Exhibit Spring-like Motion	<u>T Hashimoto</u> and H Maeda	290 (090)
Pyrazole-carboxylate mixed ligand systems as building blocks in cobalt(II) coordination polymers	<u>C Hawes</u> , C Fitchett, S Batten and P Kruger	291 (091)
Synthesis, Structures, and Intermolecular Interactions of Fully and Partially Fluorinated \hat{I}^2 -Diketonato Complexes	<u>A Hori</u> , K Naganuma and Y Akimoto	292 (092)
Syntheses and Crystal Structure and Solution Chemistry of Ruthenium(II) Dimethyl Sulfoxide Complexes with Methylamine. $[RuCl_2(NH_2Me)_2(dms-S)_2]$, $[RuCl_2(NH_2Me)(dms-S)_3]$, and $[RuCl_2(NH_2Me)(CH_3CN)(dms-S)_2]$	M Toyama, T Kushida and <u>N Nagao</u>	293 (093)
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Disproportionation reaction for a mononuclear octahedral cobalt(II) complex with N-(3,5-dimethylpyrazol-1-yl)-2-thiazoline (DMPyTn). Experimental evidences.	<u>F Barros-García</u> , R Pedrero-Marín, F Luna-Giles, A Bernalte-García and E Viñuelas-Zahinos	295 (095)
Reversible Rearrangements of a Caged Copper(II) Complex	<u>P Bernhardt</u> , C Bell, L Gahan, M Martinez, M Monteiro, C Rodriguez and C Sharrad	296 (096)
Towards New Families of Expanded Porphyrin-like Ligands and Complexes	<u>S Cameron</u> , D Larsen and S Brooker	297 (097)
Phosphorous acid labilization in trans- $[Ru(NO^+)(NH_3)_4P(OH)_3]^{3+}$	<u>D Franco</u> , D Truzzi and A Ferreira	298 (098)
Rhodium complexes with pyridine-type heterocyclic ligands	<u>S Korenev</u> , D Vasil'chenko and A Venediktov	299 (099)
Simultaneous preparation of a seven-coordinate molybdenum(VI) cation and a hexamolybdate(VI) anion	<u>K Unoura</u> , S Inomata, S Hoshi and M Date	300 (100)

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Kinetico-mechanistic information about the reversibility of carbon monoxide coordination on dirhodium(II) cyclometallated complexes adsorbed on silica	<u>M Martínez</u> , J Esteban, M D Marcos, R Martínez-Manez, F Sancenón, J Soto and J Ros-Lis	301 (001)
Synthesis, Characterization and Biological studies of Metal(II) complexes of Unsymmetrical Schiff Base Complexes	A Nejo, <u>G Kolawole</u> and A Opoku	302 (002)
Counter-ion and solvent effects on the primary coordination sphere of copper(II)- bis(3,5-dimethylpyrazol-1-yl) acetic acid coordination compounds	<u>B Kozlevcar</u> , N Kitanovski and J Reedijk	303 (003)
Interactions of Selenite and Selenate with Metal Ions: Thermodynamic Modelling in Natural Waters	<u>E Kremer</u> , J Torres, V Pintos, L Gonzatto, C Kremer and S Domínguez	304 (004)
Auto-catalyzed 'electroclick' immobilization of a copper complex onto self-assembled monolayers on a gold electrode	A Gomila, N Le Poul, C Orain, N Cosquer, J Kerbaol, I Jabin, O Reinaud, F Conan and <u>Y Le Mest</u>	305 (005)
O ₂ reactivity at a mononuclear calix[6]-N ₄ -CuI site: electrocatalytic oxidation of amines	B Douziech, L Billon, J Zeitouny, O Reinaud and <u>Y Le Mest</u>	306 (006)
Supramolecular control of the CuI/CuI electron exchange through entrapping of water molecules inside a protein-like pocket of a funnel complex	N Le Poul, B Douziech, G Thiabaud, O Reinaud and <u>Y Le Mest</u>	307 (007)
Ruthenium Nitrosyls Tetraammines as Radical Scavenger	<u>G Metzker</u> , D Cardoso and D Franco	308 (008)
Mitochondrial targeting for boron and gadolinium neutron capture therapy	<u>D Morrison</u> and L Rendina	309 (009)
Polyamine- and Polyether-linked Dinuclear Ruthenium(II) Complexes as DNA Binding Agents	<u>Y Mulyana</u> , D Weber, R Keene and G Collins	310 (010)
Synthesis, Characterization, and in Vitro Evaluation of Potentially Anticancer Ruthenium Complexes	<u>W Ni</u> , W Man, Y Lam and T Lau	311 (011)
Tuning the Reaction Products of Ruthenium and Ciprofloxacin Combination for the Design of Potential Metallo-drugs	<u>S Nikolaou</u> , M Tanimoto and S Dovidauskas	312 (012)
Coordination Chemistry for the Development of New Technetium-99m Imaging Agents and Their Rhenium Analogues	<u>A North</u> , U Ackermann, K Price, A White, J White and P Donnelly	313 (013)
Zinc(II) Chlorido Complexes of Kinetin and its Derivatives	<u>R Novotná</u> , I Popa and Z Travnicek	314 (014)
Structural features of Ca ²⁺ -carbohydrate solution complexes studied by multinuclear (1H, 13C and 43Ca) NMR spectroscopy	<u>A Pallagi</u> , P Sebők, P Sipos and I Pálinkó	315 (015)
Bioorthogonal coupling strategies in the synthesis of CORM-peptide conjugates	<u>H Pfeiffer</u> , J Niesel and U Schatzschneider	316 (016)
Hangman Iron and Cobalt Corrole-Complexes as Biomimetic Models	<u>M Schwalbe</u> , D Kiper and D Nocera	317 (017)
Characterization of One-Electron Oxidized Metal-Salen Type Complexes (Metal = Cu, Ni, Pd, Pt)	<u>Y Shimazaki</u>	318 (018)
Platinum(II) Cyclobutane-1,1-dicarboxylate Complexes Involving N ⁶ -benzyl-9-isopropyladenine-based Ligands with Promising In Vitro Cytotoxicity	<u>P Starha</u> , L Dvorak, I Popa, Z Travnicek and Z Dvorak	319 (019)

Carbosilane Dendrimers with Cyclopentadienyl Complexes of Titanium on Periphery	<u>T Strasak</u> and J Cermak	320 (020)
Gated Electron Transfer Reactions of [Cu ₁₂]aneS ₄] ^{2+/+} and [Cu ₁₄]aneS ₄] ^{2+/+} Couples: Re-Examination in Acetonitrile	<u>H Takagi</u> , T Suzuki and K Ishihara	321 (021)
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Production, Isolation and Reactivity Studies of Metal(IV)-Oxo Species with Biomimetic Ligands: A Tandem Mass Spectroscopic and Density Functional Theory Study	<u>I Taylor</u> , S Blanksby, S Colbran and G Willett	323 (023)
Antitumoral Action of Tetraethylorthosilicate Nanoparticles Loaded with Ruthenium Nitrosyl Complexes on Human Neoplastic Cell	<u>E Tfouni</u> , E EspreÃ¡fico and A Gomes	324 (024)
Effect of Single Nucleotide Polymorphisms on the Drug Metabolizing Properties of Human Cytochrome P450 1A2	<u>T Uno</u> , S Morita, A Tsujimoto, S Murata, M Egawa, T Yamashita and H Aoyama	325 (025)
Studies of multi-biological function of model iron(III) complexes with Schiff-base ligands	J W Lu, C Y Chen, Y J Chen, Y H Liang, S C Tzeng and <u>H Wei</u>	326 (026)
Chiral interactions in metal complexes for optical resolutions of amino acids	<u>T Yajima</u> , M Kimura, A Uno, N Ishida, S Ito and T Shiraiwa	327 (027)
Rhenium(I) tricarbonyl complexes with bispyridine ligands attached to tetrathiafulvalene syntheses, structures and properties	<u>T Jin</u> , G Li, X Wang, J Zuo and X You	328 (028)
Solvent-Dependent Coordination Structures of Dinuclear Lanthanide Complexes with TCNQ Radicals	<u>C Kachi-Terajima</u> , Y Kuboki, N Kimura, C Kanadani, T Saito and T Kitazawa	329 (029)
Development of High-throughput Techniques for the Synthesis and Screening of Novel Metal Organic Frameworks for MRI	<u>D Kennedy</u> , M Hill, P Wyss, D Hay, B Muir and C Drummond	330 (030)
pH-Responsive Switching of Near-Infrared Absorption of Water-Soluble Bis(o-diiminobenzosemiquinonato)platinum(II) Complex	<u>A Masuya</u> , N Iki, C Kabuto, Y Ohba, S Yamauchi and H Hoshino	331 (031)
Multifunctional Materials: Combining Spin Crossover, Colossal Uniaxial Negative Thermal Expansion and Nanoporosity	<u>B Mullaney</u> , D Price and C Kepert	332 (032)
Synthesis and characterisation of a new series of bistable iron(II) spin crossover metal-organic frameworks	<u>M C Munoz Roca</u> , J A Real Cabezos, F J Munoz Lara, A B Gaspar, G V Bukin and G Levchenko	333 (033)
Incorporation of O ₂ -binding metalloligands into metal-organic framework materials for application in selective gas separation	<u>M Murphy</u> , T Keene and C Kepert	334 (034)
Temperature Dependent Synthesis of Metal-Organic Frameworks via in situ Ligand Transformation Reactions	<u>M Nadeem</u> and J Stride	335 (035)
Preparation of Novel Mixed-valent Multilayer Film Composed of Dinuclear Ru Complexes on Surface	<u>T Nakabayashi</u> , K Kanaizuka and M Haga	336 (036)
Synthesis and optical properties of HDA capped metal sulphide nanoparticles	A O Nejo, <u>A A Nejo</u> , R Pullabhotla and N Revaprasadu	337 (037)
Synthesis and Photophysical properties of Ruthenium(II) Isocyanide Complexes containing 8-Quinolinato Ligands	<u>S M Ng</u> , C Leung, J Xiang, W Wong, C Ko and T Lau	338 (038)
A New Take on Metal-Organic Frameworks: Nets Based Upon Flexible Ligands	<u>M Ng</u> , J Stride and M A Nadeem	339 (039)

Vanadium(III) and Vanadium(IV) Complexes with O,O Bidentate Ligands.	<u>C Pretorius</u> , A Roodt and J Venter	340 (040)
Application of Novel Schiff Bases and their Complexes as Corrosion Inhibitors for Mild Steel in 1 M Hydrochloric Acid	<u>N Ramlee</u> , S N Abu Bakar, H Bahron, K Kassim, M K Harun, M Z A Yahya and S K Yong	341 (041)
Polyoxometalates as Ligands for Polynuclear Lanthanoid Complexes	<u>C Ritchie</u> , E G Moore, R W Gable, M Speldrich, P Kögerler and C Boskovic	342 (042)
From Artifacts to Facts: Novel Trinuclear Copper Complexes	<u>B Roach</u> , P Tasker, K Mason, R Forgan, E Brechin, F White and P Pliefger	343 (043)
Synthesis of Novel Silicon Ligands and Metal-Organic Frameworks	<u>K Robertson</u> , R P Davies and P D Lickiss	344 (044)
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