

SACI IN ORGANIC 2011

The conference within a
conference
Plenary and Keynote
speakers

16-21
January
2011

The organising committee is looking forward to meet and welcome you at INORG2011. Plenary and keynote speakers are shown below and invited and other speakers will be announced in the final scientific program. In addition, we will also have poster sessions and researchers are encouraged to urge their students to participate. All participants are required to submit abstracts (see the main SACI conference webpage for information). The closing date for abstracts is 31 August.

Topics

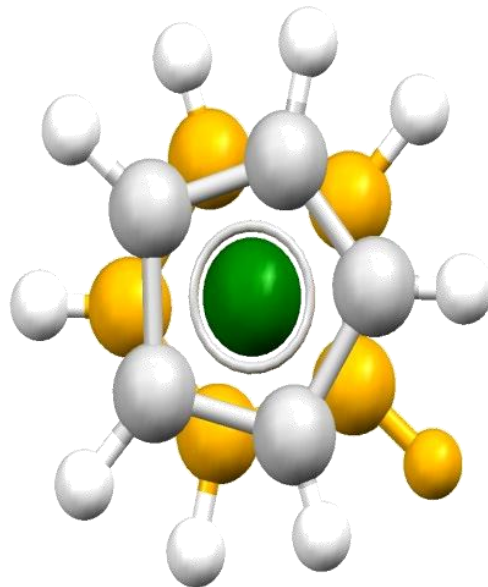


Plenary

**Rudi van Eldik (University of
Erlangen-Nürnberg, Germany)**

His research interests cover the elucidation of inorganic and bioinorganic reaction mechanisms, with special emphasis on the application of high pressure thermodynamic and kinetic techniques. He is Editor of *Advances in Inorganic Chemistry* and author of ca. 780 research papers and reviews in international journals. He has developed a promotion activity for chemistry in the form of chemistry edutainment over the past 15 years. In 2009 he was awarded the Federal Cross of Merit ('Bundesverdienstkreuz') by the Federal President of Germany and the Inorganic Mechanisms Award by the Royal Society of Chemistry (London).

- ◆ Materials: Metals in self-assembly, supramolecular systems and nanostructures and devices
- ◆ Metals in biology and medicine
- ◆ Mechanisms, kinetics, ligand design and spectroscopy
- ◆ Coordination chemistry
- ◆ Computational inorganic chemistry



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Keynote speakers

Klaus R Koch (University of Stellenbosch, RSA)



Klaus Koch is the head of the Chemistry and Polymer Science Department at Stellenbosch. His research interests are centered on the chemistry of the Platinum Group Metals (PGMs) in the context of their fundamental coordination, separation/recovery and analytical chemistry. This includes the application advanced multinuclear (particularly ^{195}Pt) NMR spectroscopy for speciation and probing of the solvation shells of complex anions in aqueous solution.

Susan Bourne (University of Cape Town, RSA)

Her academic specialisation is in the field of supramolecular chemistry which, unlike traditional chemistry, focuses on the weaker and reversible non-covalent interactions between molecules. These allow the construction of softer materials, able to respond to their environment.



Tim Egan (University of Cape Town, RSA)



Tim Egan's research lies in the field of bioinorganic chemistry. His current work is centred on the mechanism of malaria pigment (haemozoin) formation and the mechanism of action of quinoline and related antimalarial drugs. This information is being used to develop principles for the design of new antimalarials

Sofi Elmroth (Lund University, Sweden)

At present, she is particularly interested in exploring the influence of drug interference on non-coding RNA function, including effects on si- and miRNA regulated protein synthesis. A variety of biochemical and biophysical methods are employed for these studies, such as luciferase based expression systems, gel sequencing- and thermal melting studies, and mass-spectrometry analysis.



Gerdus Kemp (PET labs Pharmaceuticals, South Africa)



Gerdus Kemp was born in South Africa. He did a P.hD (2004) in chemistry at the Rand Afrikaans University in Johannesburg, South Africa. He has a special interest in the production and synthesis of PET radiopharmaceuticals. Dr Kemp is currently the operations manager at PET labs Pharmaceuticals.

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Keynote speakers

Andre Roodt (University of the Free state, RSA)



His interests include reaction mechanisms of chemical processes on early, middle and late transition metals using time resolved spectroscopy and solid state techniques. His research specifically focuses on industrial processes with regard to homogeneous catalytic model reactions, as well as medicinal agents

Reinout Meijboom (University of Johannesburg, RSA)

Amongst other projects Reinout's interest is in the synthesis and characterization of extremely well-defined nanoparticles (clusters) to be used as starting materials for shape-selective catalysts. Reinout was awarded the South African Chemical Society's Raikes medal in 2009



Len J. Barbour (University of Stellenbosch, RSA)



Len's main research interest lies in Crystal Engineering and the design of new functional materials. Of particular interest is the encapsulation of small compounds by non-covalent molecular assemblies. This includes sorption of gases into lattice interstices as well as the capture of substrates in molecular capsules or tubules assembled by means of hydrogen bonding or amphiphilic interactions.

Helgard Raubenheimer (University of Stellenbosch, RSA)

His interest is in Organometallic compounds, their synthesis and template reactions. Presently a main interest of his is in the chemistry of gold and the reactivity



of complexes with various types of carbene ligands. of complexes with various types of carbene ligands.

Kenneth Ozoemena (CSIR, RSA)

Kenny focuses mainly on nano-structured materials, self-assembled monolayers and redox-active N₄-macrocyclic metal complexes with a view to establishing their potential applications in electrocatalysis, chemo- and biosensing, and in the development of electrochemical energy storage and conversion systems, and dye sensitised solar cells.

