

Introduction

It is our pleasure to welcome you to the 8th AGICHEM conference held in Heidelberg in September 2011. This series of conferences which was first launched in 1991, brings together chemists from Germany and the UK and allows them to learn and discuss recent developments in Inorganic Chemistry. Given the success of the previous meetings, we look forward to an equally stimulating event.

Supporters

We are grateful to the following organisations for their assistance and generous sponsorship of the meeting: the Royal Society of Chemistry, Gesellschaft Deutscher Chemiker, Deutsche Forschungsgemeinschaft (DFG).

Location

The symposium will be held at the Heidelberg University Campus "Im Neuenheimer Feld":

Chemistry Lecture Hall Building
Im Neuenheimer Feld 252
69120 Heidelberg (Germany)

Organising Committee

Lutz H. Gade (Heidelberg) • Peter Tasker (Edinburgh)
Markus Enders (Secretary, Heidelberg) • Neil Champness (Nottingham) • Ben Ward (Cardiff) • Claudia Wickleder (Siegen)

Poster Contributions

There will be a Poster Session and we encourage participants, particularly postgraduate students, to present a poster. The deadline for poster submissions is 31.7.2011.

The maximum place available for Posters is A0, portrait mode (i.e. 841 x 1198 mm).

Poster Abstracts will be made available to the participants in the Book of Abstracts. Therefore a one page abstract is required. A template (in Microsoft word format) can be downloaded here: <http://www.rzuser.uni-heidelberg.de/~gn1/agichem2011.doc> Please create a black/white pdf file and send the pdf and the source file (preferably MS Word format) by e-mail to: agichem2011@uni-heidelberg.de

Invited Speakers and Scientific Programme

This conference covers a broad range of topics, including inorganic materials and solid state chemistry, coordination chemistry, organo-metallic synthesis and molecular catalysis.

Wednesday September 21

- 12:00 Registration
13:30 Introductory Remarks
13:45 Robin Perutz (York): *Towards CO₂ reduction with inorganic photochemistry*
14:15 Manfred Scheer (Regensburg): *The Magic of Polyphosphorus Compounds*
14:45 Deborah Kays (Nottingham): *Structure and Reactivity of Coordinatively and Electronically Unsaturated Complexes*
15:15 Coffee Break
15:45 Thomas Fässler (München): *Discrete Intermetallic Clusters in Solution and in Neat Solids*
16:15 John Slattery (York): *Computational Approaches to Understanding Alkyne Transformations and Non-innocent Ligand Effects in Organometallic Chemistry and Catalysis*
16:45 Stefanie Dehnen (Marburg): *On the Colorful Diversity upon a Simple Approach: Chemistry with Binary Main Group Element Aggregates*
17:15 Andrew Weller (Oxford): *Catching the First Insertion Events in the Transition-Metal Catalysed Formation of Polyaminoboranes: B-N Analogs of Polyolefins.*
18:00-20:00 Poster Session

Thursday Sept. 22

- 09:00 Michael Ruck (Dresden): *Metastable Metals and Unconventional Superconductors by Low Temperature Syntheses*
09:30 Matt Rosseinsky (Liverpool): *Targetted synthesis of inorganic materials for energy applications*
10:00 Sven Schneider (Erlangen): *Cooperative M(PNP)-pincer platforms for small molecule activation*
10:30 Coffee Break
11:00 Dominic Wright (Cambridge): *Catalytic and Stoichiometric Bond-Forming Reactions Using Main Group Metals*
11:30 Oliver Wenger (Göttingen): *Phototriggered Long-range Electron Transfer in Donor-Bridge-Acceptor Molecules*

- 12:00 Rab Mulvey (Strathclyde): *FascinATES: two Metals Working Together to Create Novel Metallation Chemistry*
12:30 Lunch Break
14:00 Reiner Anwander (Tübingen): *Nanostructured Catalysts via Silylamide Grafting*
14:30 Andrew Goodwin (Oxford): *Anomalous Mechanical Behaviour in Flexible Framework Materials*
15:00 Andreas Grohmann (Berlin): *Of Podands and Pincers and Iron and Copper*
15:30 Coffee Break
16:00 Ivan Parkin (UCL): *Deposition of metal oxide and metal oxide - nanocomposite films by CVD*
16:30 Franc Meyer (Göttingen): *Metal Centers Acting in Concert: Multistable Spin and Redox Switches*
17:00 Jonathan Nitschke (Cambridge): *Molecular Systems Architecture: from Complexity to Function*
17:30 Bettina Lotsch (München): *There's Plenty of Room "inside": Porous Nanostructures as Sensitive Detection and Reaction Platforms*
19:30 Conference Dinner

Friday Sept. 23

- 09:00 Polly Arnold (Edinburgh): *Small Molecule Activation and Reductive Functionalisation of the Uranyl Oxo group in Pacman-shaped Complexes*
09:30 Jun Okuda (Aachen): *Molecular Hydrides of Group 2, 3 and 4 Metals*
10:00 Richard Layfield (Manchester): *Organometallic Routes to Lanthanide Single-Molecule Magnets*
10:30 Coffee Break
11:00 Matthias Driess (Berlin): *Challenges in Metalorganics for Energy-Saving Materials and Catalysis*
11:30 Euan Brechin (Edinburgh): *A molecule on a chip, on a fridge, in space*
12:00 Karsten Meyer (Erlangen): *N-Heterocyclic Carbene Complexes of Iron in Trigonal Ligand Environments: From High-Valent Iron Nitrides to Ammonia Synthesis*
12:30 Closing Remarks
12:40 End of the Meeting