

# The 5th International Conference

# on Gold Science, Technology and its Applications

University of Heidelberg, Germany Sunday 26 – Wednesday 29 July 2009

# **Invited speakers**

#### ••• Venue

With its glorious natural setting, a wonderful castle, historic old town and a beautiful river set in the midst of rolling hills, Heidelberg is regarded as one of the most attractive cities in Germany. It is also a progressive city of international importance in the fields of science, research and business. Not only is Germany's oldest university based in Heidelberg (the venue for the conference), but so are a number of outstanding research institutions and industrial companies. It is a truly wonderful setting for GOLD 2009 and we look forward to welcoming you to see for yourself!

#### ••• Key dates

Final programme announced May 2009. See website for details.

Conference 26-29 July 2009

Abstracts for posters can be submitted via the website up to the start of GOLD 2009.

#### ••• Students

Special student rates for conference attendance have been announced on the conference website.

The Organisers are pleased to announce the following invited speakers for GOLD 2009 confirmed to date.

### Opening plenary presentations

The conference will begin on Sunday afternoon, 26th July, with three plenary presentations:

- Peter Kondos, Barrick Gold, Overview of gold mining and extraction and current issues
- Christian Hagelüken, Umicore, *Recycling* of gold from electronics
- Christiane Eluère, Musée De France, Ancient Gold of Continental Europe

#### Main conference sessions Plenary presentations

- Richard Puddephatt, University of Western Ontario, Molecular engineering in gold chemistry: From molecules to polymers and network materials
- Paul Mulvaney, University of Melbourne, Gold Nanocrystals - From Plasmonics to Catalysisopy
- Pietro Cavalotti, Politechnico Milano, The art and future of gold electroplating
- Wayne Goodman, Texas A & M University, Catalysis by Gold - Palladium Alloys: The role of Isolated Palladium Sites
- Masatake Haruta, Tokyo Metropolitan University, Chemical Innovation by Gold Catalysts
- Dean Toste, UC Berkeley Homogeneous Catalysis with Gold: Development, Applications and Enantioselective Catalysis
- Graham Hutchings, Cardiff University, Nanocrystalline Gold and Gold Palladium Alloy Catalysts: a Reflection on Catalyst Discovery and the Nature of Active Sites

## **Keynote presentations**

- Luigi Messori, University of Florence, Gold compounds as anticancer agents
- Mohammad Omary, University of North Texas (Gold luminescence)
- Pekka Pyykko, University of Helsinki, Finland, Theoretical Chemistry of Gold: Aurophilicity, New Species...
- Boonrat Lohwangwatana, Chulalongkorn University, Design and Synthesis of Gold Metallic Glass and its Applications
- Tobias Müller, W. C. Heraeus GmbH, Gold wire bonding in microelectronics an overview
- Brahim Lounis, Université Bordeaux, Optical detection of individual gold nanoparticles
- Ulrich Heiz, Technische Universität München, Catalysis of Gold: Each atom counts!
- Didier Astruc, Université Bordeaux, Interplay between Gold Nanoparticles and Dendrimers
- Vincent Rotello, University of Massachusetts, Sensing and Delivery Using Gold Nanoparticles
- Mikael Käll, Chalmers University of Technology, SPR goes nano: using gold nanostructures for efficient refractive index sensing
- Avelino Corma, Universidad Politécnica de Valencia, Gold (III)-Metal organic frameworks for bridging the gap between homogeneous and heterogeneous gold catalysts
- Seunghoon Shin, Hanyang University, Seoul, Gold-Catalyzed Azomethine Ylide Generation and [3+2]-Dipolar Cycloaddition via Internal Redox between Nitrone and Alkyne: Examples of Gold-Carbenoid
- Jeroen A. van Bokhoven, ETH Zürich, Catalytically Active Species in Gold Catalysts

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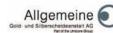
















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