



G O L D 2 0 0 9

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 Catalysis*
- Pietro Cavalotti, Politecnico 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: Auophilicity, 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 Nitrene and Alkyne: Examples of Gold-Carbenoid*
- Jeroen A. van Bokhoven, ETH Zürich, *Catalytically Active Species in Gold Catalysts*

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