



# **GOLD 2006**

## *NEW INDUSTRIAL APPLICATIONS OF GOLD*

### GOLD 2006 KEYNOTE SPEAKERS

'Gold 2006' promises to surpass the success of the Vancouver 2003 gold conference, with record numbers (>70% increase) of abstracts submitted as we go to press. As one might expect, gold catalysis features strongly with all the top researchers committed to attend.

The gold chemistry, materials and nanotechnology sectors are also prominent with many innovative topics and leading experts.

The following **Keynote Lecture** speakers have accepted invitations to speak to date:

#### **Opening plenary session**

- Professor Graham Hutchings, *Cardiff University, U.K.*,  
"A Golden Future for Green Chemistry" (François Gault Lecture)
- Dr Hans Lansink-Rotgerink, *Degussa AG, Germany*,  
"Synthesis of Vinyl Acetate Monomer: An Industrial Perspective on the Use of Gold-containing Catalysts" \*
- Dr Roger Paul, *Mintek, South Africa*,  
"Project AuTEK – Gold Research to Industrial Products"
- Dr Mary Cahill, *The National Museum of Ireland, Dublin, Ireland*,  
"Irish Prehistoric Gold"

#### **Main sessions**

- Professor Mathias Brust, *University of Liverpool, U.K.*,  
"Gold Nanoparticles: a story of eternal return"
- Professor Avelino Corma, *University of Valencia, Spain*,  
"Unique Catalytic Properties of Gold for Chemose-Selective Redox Reactions"
- Professor Michael Cortie, *University of Technology Sydney, Australia*,  
"Gold-based Shape Memory Alloys"
- Professor John Fackler, *Texas A & M University, USA*,  
"New Gold Chemistry with Nitrogen Ligands" (with co-authors)
- Professor Bruce Gates, *University of California, Davis, USA*,  
"Evidence of Active Species in Supported Gold Catalysts"  
(with Professor Juan Fierro-Gonzalez)



- Professor Stephen Hashmi, *University of Stuttgart, Germany*,  
“Gold Catalysis: News from the Homogeneous Wing”
- Dr Toshio Hayashi, *Nippon Shokubai Co Ltd, Japan*,  
“Selective Oxidation of Alcohol to Carboxylic Ester over Supported Gold Catalyst”  
(with co-authors)
- Professor Nabil Lawandy, *Solaris Nanosciences, USA*,  
“Nanoparticle Plasmonics of Gold in Active Media”
- Professor Daniel Leznoff, *Simon Fraser University, Canada*,  
“Coordination Polymers with Cyanoaurate Building Blocks as Advanced Materials”
- Professor Paul Mulvaney, *University of Melbourne, Australia*,  
“Single Particle Spectroscopy of Gold Nanocrystals”
- Professor Jens Nørskov, *Technical University of Denmark, Denmark*,  
“Theoretical Aspects of Gold Catalysis” \*
- Dr Guilio Paciotti, *CytImmune Sciences Inc, USA*,  
“Gold Nanoparticles: Novel Approach to Drug Delivery” \*
- Professor Vivian Yam, *University of Hong Kong, PRC*,  
“Luminescent Gold-containing Materials – From Fundamentals to Functions”
- Professor Qiang Xu, *AIST, Japan*,  
“Reactions of Gold Atoms and Small Clusters with CO and CO/O<sub>2</sub>:  
Matrix-isolation Infrared Spectroscopic and Theoretical studies”

\*Titles to be confirmed

The 4th International Conference on Gold Science, Technology and its Applications will take place on 3rd – 6th September, 2006, at the University of Limerick, Limerick, Ireland.

Full details and registration will be found on the conference website at: [www.gold2006.org](http://www.gold2006.org)

**Students:** Special bursaries for first 50 students registering! Register now!

Note: Poster submissions will be accepted up to the start of the conference

*Gold 2006* is organised by World Gold Council and the University of Limerick

*Confirmed sponsors include:*

DMCC, Project AuTEK, World Gold Council, BASF, Degussa Ag, Metalor, 3M and Tanaka KK



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