

09:05

09:35

10:00

Provisional Gold 2009 Conference Programme

Sunday, 26 th July	
15:00	Official Opening & General Interest Plenaries – Room A (Großer Horsaal)
15:30	Peter Kondos, Barrick Gold
	Overview of gold mining and extraction issues (title to be confirmed)
16:15	Christian Hagelüken, Umicore
	Recycling of gold from electronics
17:00	coffee break
17:30	Christiane Eluère, Musee De France Ancient gold of Continental Europe
18:30	Welcome Reception
Monday, 27 th July	
08:25	Plenary – Room A (Großer Hörsaal)
	Richard Puddephatt, University of Western Ontario, Canada
40.40	The Chemistry of Gold
13:40	Plenary – Room A (Großer Hörsaal)
	Masatake Haruta, Tokyo Metropolitan University, Japan Chemical Innovation by Gold Catalysts
	Chemical information by Cold Catalysis
Symposium 1	Room B
09:05	Keynote: Avelino Corma, Universidad Politécnica de Valencia, Spain
	Gold (III)-Metal organic frameworks for bridging the gap between homogeneous and
	heterogeneous gold catalysts
09:35	Armin Brandner
	Synthesis of dihydroxyacetone by continuous aerobic glycerol oxidation using bimetallic gold
40.00	and platinum catalysts
10:00	Jose Antonia Lopez-Sanchez Oxidation of polyols using Au-Pd alloy supported nanocrystals
10:25	coffee break
11:00	Mike Scurrell
	Low temperature oxidation of ethanol to acetic acid using gold-based catalysts
11:25	Tao Zhang
	Au-Cu alloy nanoparticles as an efficient catalyst for selective oxidation of alcohols
11:50	Abdullahi Nuhu
10.15	Ethanol Oxidation over Au/TiO ₂
12:15	Arne Wittstock Gas-Phase Oxidation of Alcohols with nanoporous Gold
12:40	lunch break
14:25	Katharin Heidkamp
-	Oxidation of tensidic alcohols to their corresponding carboxylic acids via Au- and AuPt-
	catalysts
14:50	Tamao Ishida
	Deposition of Au Clusters on Porous Coordination Polymers for the Oxidation of Alcohols and
45.45	Amines
15:15	Di Wang On the mechanism of Au-Pd synergistic effect in liquid phase oxidation of alcohols
15:40	Alberto Villa
10.40	Gold supported N-functionalized MWCNTs: enhancement of the activity in the oxidation of
	alcohols by the basicity of the support
16:05	coffee break
16:30	Poster session
Cumposium 2	Poom A
Symposium 2	Room A

Keynote: Jeroen A. van Bokhoven, ETH Zürich, Switzerland

Oxidative dehydrogenation of cyclohexanes over supported gold catalysts

Catalytically active species in gold catalysts

Nicholas Dummer

Valérie Caps



10:25	Titania-doped mesostructured silicates as efficient supports for gold PROX catalysts coffee break
11:00	Bert Chandler
	Tuning and Understanding Oxygen Activation by Au with Supported Bimetallic NiAu Nanoparticles
11:25	Andreea Gluhoi Gold, still a surprising catalyst in heterogeneous reactions
11:50	Mitsutaka Okumura Theoretical investigation of the hetero-junction effect in PVP-stabilized Au clusters
12:15	Peter Aurora
12:40	Titania Nanotube Supported Gold Photoelectrodes lunch break
14:25	Alexander Nijhuis
14:50	A Transient Kinetic Analysis of the Epoxidation Stefan Vajda
14.50	Selective Propene Oxidation on Subnanometer Gold Clusters Supported on Amorphous Alumina
15:15	Jiahui Huang Gas phase Propylene Epoxidation Catalysed by Gold Clusters
15:40	Valérie Caps
	Influence of the alkene molecular structure on the mechanism of its aerobic oxidation over gold catalysts
16:05	coffee break
16:30	Poster session
Symposium 3	Room C
9:05	Keynote: Vincent Rotello, University of Massachusetts, USA Gold Nanoparticles as Diagnostics and Therapeutics
9:35	Qun Huo
0.00	A Highly Sensitive One-Step Immunoassay Technology Using Gold Nanoparticle Probes Coupled with Dynamic Light Scattering Detection
10:00	Christophe. Alric
	Gold nanoparticles designed for in vivo SRCT and MRI imaging and X-ray therapy
10:25	coffee break
10:55	Keynote: Mikael Käll, Chalmers University of Technology SPR goes nano: using gold nanostructures for efficient refractive index sensing
11:25	Christophe Humbert Molecular and electronic surface properties of functionalised Gold Nanoparticles probed by
	non-linear optical spectroscopy
11:50	Janina Kneipp Gold nanosensors based on one- and two-photon surface-enhanced Raman scattering
12:15	Michael Cortie
	Control of optical magnetic fields using plasmonic gold nanostructures
12:40	lunch break
14:25	Cyrille Gautier Gold Nanorod Pigments
14:50	James Johnston
	Golden Wool – Nanogold as a Novel Colourant in Wool for High Value Textiles and Fashion Apparel
15:15	Michael Cortie Spectrally selective window coatings using gold nanorods
15:40	Kaushik Mallick
	Gold nanoparticles in an inorganic semiconductor: A low-temperature electrical properties study
16:05	coffee break
16:30	Poster session
Symposium 4	Room D
9:10	Mayfair Kung Carbon Monoxide Assisted Epoxidation of Butene
9:35	Stephanie Cronje
10:00	Imine donor complexes of gold(I) Hannu Häkkinen
. 5.00	Ligand-protected gold cluster superatoms: Robust and well-understood building blocks of



	nano-matter
10:25	coffee break
10:55	Keynote: Didier Astruc, Université Bordeaux, France Interplay between Gold Nanoparticles and Dendrimers
11:25	Ferdinand Gonzaga
11.20	Citrate surfactants as reducing- and structure-directing agents: synthesis of novel gold nano-architectures.
11:50	Julien Boudon (SWI) Liquid-Crystalline Gold Nanoparticles
12:15	Laura Ashfield
	Tools to Enhance Understanding of Gold Nanoparticle Synthesis
12:40	lunch break
14:20	Keynote: Mohammad Omary, University of North Texas, USA Gold Luminescence
14:50	Vivian W. W. Yam Luminescent Gold-Containing Molecular Materials - From Synthesis to Supramolecular Assembly and Functions
15:15	Alan Balch Remarkable Aspects of the Chemistry and Luminescence of Crystalline Gold(I) Complexes
15:40	Igor Koshevoy Self-assembly of intensely luminescent phosphine-alkynyl Aul-MI (M = Cul, Agl) clusters
16:05	coffee break
16:30	Poster session
Symposium 5	Room E
09:10	Kageeporn Wongpreedee Microstructure of Au-Al systems Manipulated by Rapid Solidification Techniques
09:35	Delfim Soares Tarnishing resistance of gold alloys with two types of intermetallic compounds
10:00	Ulrich E. Klotz Surface engineering of coloured gold alloys
10:25	coffee break
12:40	lunch break
14:20	Keynote: Tobias Müller, W. C. Heraeus GmbH, Germany
0	Gold wire bonding in microelectronics - an overview
14:50	Sabina Gade
14.00	Palladium-Gold Alloys for High Temperature Hydrogen Separation, Production, and Purification
15:15	Christian Leinenbach
	Novel gold based filler metals for soldering highly loaded components
15:40	Naruki Endo
40.05	Hydrogen absorption in the Au-Zr binary intermetallic compounds
16:05	coffee break
16:30	Poster session
Tuesday, 28 th July	
08:25	Plenary – Room A (Großer Hörsaal) Dean Toste, UC Berkeley, USA
13:40	Homogenous Catalysis with Gold: Development, Applications and Enantioselective Catalysis Plenary – Room A (Großer Hörsaal) Wayne Goodman, Texas A & M University, USA
	Catalysis by Gold - Palladium Alloys: The role of Isolated Palladium Sites
15:45	Plenary – Room A (Großer Hörsaal)
10.10	Pietro Cavallotti, Politechnico Milano, Italy
	Gold plating: from a timeless art to an evergreen technology
Symposium 1	Room B
09:10	Geoffrey Bond Formulation of Mechanisms for Gold-catalysed Reactions
09:35	Sandra Lang
	Reactions of Small Gold Cluster Cations with H ₂ , O ₂ , and CH ₄ : Implications for Selective
	Methane Oxidation



10:00	Christina Della Pina
	New Routes to high-value chemicals and conducting polymers by Gold Catalysis
10:25	Coffee break
10:55	Keynote: Seunghoon Shin, Hanyang University, Seoul, Korea
	Gold-Catalyzed Azomethine Ylide Generation and [3+2]-Dipolar Cycloaddition via Internal
11.05	Redox between Nitrone and Alkyne: Examples of Gold-Carbenoid
11:25	Young Rhee Developing gold(I)-catalyzed reactions of 3-alkoxy-1,6-enynes
11:50	Mariano Laguna
11.50	Inter and Intramolecular Addition of OH to Alkynes in Green Solvents
12:15	Liming Zhang
	Au-Catalyzed Homogeneous Oxidative Homo-/Cross-Coupling Reactions
12:40	lunch break
14:20	Rai-Shung. Liu
	Gold-Catalyzed 1,3-Addition of sp3-hybridized C-H bond to Alkenylcarbenoid Intermediate
14:50	Vladimir Golovko
	Exploring environmentally benign avenues in catalysis by gold
15:15	Philip Wai Hong Chan
40.05	Gold-Catalyzed Strategies for Swapping C-OH Bonds for C-C and C-N Bonds
16:05	coffee break Poster session
16:30	POSter Session
Symposium 2	Room A
Cympodium 2	Noviii A
09:10	Jeffrey Miller
	Performance of Au catalysts for the water-gas shift reaction
09:35	Maria Flytzani-Stephanopoulos
	Gold-doped Ceria and Iron Oxide as Stable Water-Gas Shift Catalysts
10:00	Helen Daley
	Study of Au/CeZrO ₄ catalysts for the low temperature Water Gas Shift reaction; identification of
40.05	the active Au species
10:25 10:55	coffee break Jason McPherson
10.55	The commercial application of supported gold catalysts for CO oxidation in mainstream
	cigarette smoke
11:25	
11:25	Pankaj Dhingra Commercializing NS Gold™, a gold containing automotive catalyst
11:25 11:50	Pankaj Dhingra
-	Pankaj Dhingra Commercializing NS Gold™, a gold containing automotive catalyst Caixia Qi Improvement in Long-Term Durability of Gold Catalysts for CO Removal in Ambient Air and
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11:50	Pankaj Dhingra Commercializing NS Gold™, a gold containing automotive catalyst Caixia Qi Improvement in Long-Term Durability of Gold Catalysts for CO Removal in Ambient Air and Reformate Gases Robert Güttel Ex-Post Size Control of Hollow Sphere Encapsulated Au Nanoparticles - Catalysts for the
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	Optical detection of individual Gold Nanoparticles
11:25	Michael Natan
11.20	Detection Using Au Nanoparticle Surface Enhanced Raman Scattering
11:50	Jang-Sik Lee
11.00	Non-volatile flash memory devices based on the self-assembled gold nanoparticles
12:15	Michael Wilson
12.13	Enhancement of the effectiveness of light-activated antimicrobial agents by gold nanoparticles
12:40	lunch break
14:20	Keynote: Ulrich Heiz, Technische Universität München
14.20	Catalysis of Nanoscale Gold
14:50	Richard Palmer
14.50	Gold nanocluster deposition: from atomic structure to applications
15:15	Ulf Prüße
10.10	Oxidation of carbohydrates – From lab to industry
16:05	coffee break
16:30	Poster session
Symposium 4	Room D
- , ,	
09:05	Keynote: Pekka Pyykkö, University of Helsinki
	Theoretical chemistry of gold: Aurophilicity, new species and precision spectroscopy
09:35	Peter Schwerdtfeger
	Periodic trends and relativistic effects in the group 11 series of elements
10:00	Richard Heyn
	Development of Au Catalysts for the Functionalization of Alkanes
10:25	coffee break
10:55	John F. Fackler, Jr.
	Novel Mixed Coordination of Gold ro N- and C-Donor Ligands
11:25	Helen Goitia
_	Gold Compounds with Ferrocene and Thiophene Conjugates of 2-Thiocytosine. Studies of
	Antitumour Activity
11:50	Michael Katz
11.50	Vapoluminescent [Au(CN)2]-based ammonia sensors
12:15	Maria Agostina Cinellu
12.10	Gold(III) N^C^N pincer complexes: synthesis and reactivity
12:40	lunch break
14:20	Keynote: L. Messori, University of Florence, Italy
0	Gold compounds as anticancer agents
14:50	Telisha Traut
	Evaluation of Gold(I) P,N Heteroditopic Complexes as Antiviral Agents
15:15	Thomas Fässler
	[Au3Ge18]5- and [Au3Ge45]9-: Synthesis and Structure of Two Extraordinary Intermetalloide
	Cluster lons
16:05	coffee break
16:30	Poster session
Symposium 5	Room E
-	
09:05	Keynote: Boonrat B.Lohwangwatana, Chulalongkorn University
	Design and Synthesis of Gold Metallic Glass and its Applications
09:35	Paula Cojocaru
	Structure of ECD gold micro and nanostructured carbon composite materials with higher
	mechanical properties .
10:00	Andreas Zielonka
	Electrochemical Incorporation of Gold-Nanoparticles in Metal-Matrix-Systems
10:25	coffee break
11:00	Claire-Marie Pradier
	Controlled immobilization of gold nanoparticles on dithiol self assembled monolayers.
	Towards 3D immunosensors
11:25	Jonathan Edgar
-	Synthesis of highly anisotropic gold nanoparticles
11:50	Sven Mönninghoff
	Synthesis of gold nanoparticle oligonucleotide monoconjugates (GNOC) via the utilisation of
	phosphoramidites of dendritic polythioether "gripper" ligands on the DNA synthesizer
12:15	Jörg Polte
-	In Situ studies using SAXS, XANES and micro-structured mixers allow new insights of the



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	nucleation and growth process of gold nanoparticles
12:40	lunch break
14:25	Phil Dickens
	Selective Laser Melting (SLM) of 24 Carat Gold (Au)
14:50	J.Fischer-Bühner
	Microgranulation of gold and gold alloys
15:15	Filipe Siva
16:05	On the Use of a Controlled Solidification Process to Obtain Functionally Graded Materials coffee break
16:30	Poster session
10.00	
Wednesday, 29 th July	
8:25	Plenary - Room A (Großer Hörsaal) Paul Mulvaney, University of Melbourne, Australia
	Gold Nanocrystals - From Plasmonics to Catalysis
11:55	Plenary - Room A (Großer Hörsaal)
	Graham Hutchings , Cardiff University, UK Nanocrystalline Gold and Gold Palladium Alloy Catalysts: a Reflection on Catalyst Discovery and the
	Nature of Active Sites
12:30	Wind-up session
	lunch
Symposium 1	Room B
09:10	James Aluha Lulizi
09.10	Gold Catalysts with Improved Sulphur Tolerance for Diesel-Engine Exhaust Systems
09:35	Arthur Mpela
	Production of Ultra-Clean Fuels (Diesel, Gasoline) from Methanol over Gold-Based Catalysts
10:00	LauraPrati
	Gold catalysts operating under acidic conditions
10:25	coffee break
11:00	Edwin Ntainjua N. The influence of acid or halide on the direct formation of hydrogen peroxide over supported Au-
	Pd catalysts
11:25	Christopher Kiely
	Characterizing Supported Au and AuPd Clusters
12:30	Wind-up session
	lunch
0	B A
Symposium 2	Room A
09:10	Gabriel Veith
00.10	Hydroxyl mediated activity and stability of supported gold catalysts
09:35	Alexandre Goguet
	Structural-activity relationships of Au based catalysts for the carbonylation of methanol to
	acetic acid and methyl acetate: Identification of the active sites
10:00	Olga Simakova
10.25	Linoleic acid isomerization over gold catalysts coffee break
10:25 10:55	Shamil Shaikhutdinov
.0.00	Interaction of gold with cerium oxide supports: CeO₂(111) thin films vs CeOx nanoparticles
11:25	Serafin Bernal
	Understanding CO adsorption on ceria-zirconia-supported gold catalysis. A combined
	volumetric, FRIR, HREM and HAADF-stem study
12:30	Wind-up session
	lunch
Symposium 3	Room C
09:10	Maria Fernanda Cardinal
	Modulating Surface Plasmons in Gold Dumbells by Coating with Silver
09:35	Kurt Geckeler Gold Nanocomposites: Novel Design and Challenges
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Gold Nanocomposites: Novel Design and Challenges



10:00	José M. Pingarrón
10:25	Gold nanoparticles-structured electrochemical biosensors for applications in the food industry
10:55	Vladimir Zaporojtchenko
	Nanocomposite films with embedded Au, Ag and alloy nanoparticles: Optical, antimicrobial
	properties and release of metal ions.
11:25	Thalappil Pradeep
	Sub-nanometer light emitting quantum clusters of gold and silver
12:30	Wind-up session
	lunch
Symposium 4	Room D
00:40	Dec:-11#
09:10	Daniel Leznoff
00.25	Highly birefringent cyanoaurate-based coordination polymers
09:35	Vince Catalano
10.00	Multimetallic Gold(I) N-Heterocyclic Carbene Complexes
10:00	Christoph Strasser
40.05	Synthesis of novel gold rNHC, aNHC and Fischer-type carbene complexes
10:25	coffee break Alexander Pfund
10:55	7.107.01.100
	Micro-Structured Fuel Cells using a Combination of Lithographic and Electrochemical
44.05	Processes (Preliminary Feasibility Study)
11:25	Shin Horiuchi
40.00	Novel Cyanide-Free Au Electroless Plating with High Adhesion to Plastic Films
12:30	Wind-up session
	lunch