

SCIENTIFIC PROGRAMME –

*There are four parallel sessions running at the given times.
Room Venues will be confirmed at a later date.*

Please Note: Where a session includes a Keynote talk, that session will start or finish 10 mins earlier/later

Monday 4th September 2006 Morning Sessions

8.30am Keynote: Avelino Corma

"Unique Catalytic Properties of Gold for Chemose-Selective Redox Reactions"

Symposium 1

“SELECTIVE OXIDATION I”

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Peter Claus	Paul Kern, Séval Demirel-Gülen, Martin Lucas	Oxidation of Mono- and Polyalcohols with Gold: Comparison of Ceria and Carbon Supported Au Catalysts	Darmstadt University of Technology, Germany
9.30	Katsuaki Konishi	Yoshitaka Murakami	Effects of Gold Nanoclusters in Metalloporphyrin-Catalyzed Olefin Oxidation	Creative Research Initiative ‘Sosei’ (CRIS) and Division of Environmental Materials Science, Graduate School of Environmental Science, Hokkaido University, Japan
9.55	Valerie Caps	Pascal Lignier, Franck Morfin, Laurent Piccolo, Jean-Luc Rousset	Insight into the free radical chain mechanism of gold-catalyzed hydrocarbon oxidation reactions in the liquid phase	Institut de Recherches sur la Catalyse (CNRS), Villeurbanne France
10.20	Coffee	Coffee	Coffee	Coffee

Symposium 2

“CATALYST PREPARATION”

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	F. Moreau	G. C. Bond	Preparation and Reactivation of Au/TiO ₂ Catalysts	University of Salford, Salford, Greater Manchester, UK
9.30	Gabriel Veith	Andrew R. Lupini, Sergey Rashkeev, Stephen J. Pennycook, Nancy J. Dudney, Alberto Villa and Laura Prati	Use of Magnetron Sputtering to Investigate Gold Catalysts	Oak Ridge National Laboratory United States.
9.55	Corinne Petit	Svetlana Ivanova, Véronique Pitchon, Haiko Herschbach, Alain Van Dorsselaer, Emmanuelle Leize	From the solution to the catalyst : Step by step identification of gold species to produce an active catalyst	Laboratoire des Matériaux, Surfaces et Procédés pour la Catalyse, UMR 7515 du CNRS
10.20	Coffee	Coffee	Coffee	Coffee

Symposium 3
SYNTHESIS OF GOLD NANOPARTICLES I

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	D. Compton	C.H. Claassens	Chemical Synthesis of Anisotropic Gold Nanoparticles	Project AuTEK, Mintek, Randburg, South Africa
9.30	Kateřina Lepková	Vincent Cunnane, Jason Clohessy, René Knake	pH Controlled Synthesis Of Gold Nanoparticles Via Electrodeposition at Liquid-Liquid Interfaces	Materials and Surface Science Institute, University of Limerick
9.55	*KEYNOTE Mathias Brust		Gold Nanoparticles: a story of eternal return	Department of Chemistry, University of Liverpool, Liverpool United Kingdom
10.30	Coffee	Coffee	Coffee	Coffee

Symposium 4
ORGANOMETALLIC AND COORDINATION CHEMISTRY

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Fabian Mohr	Sergio Sanz, Elena Vergara, Elena Cerrada, Mariano Laguna	Water-Soluble and Stable Organometallic Gold(I), (II) and (III) Complexes	Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza - CSIC, Zaragoza, Spain
9.30	William F. Gabrielli	Stephanie Cronje, Helgard G. Raubenheimer	Utilisation of various bonding modes of N-rich heterocycles in gold(I) chemistry	Project AuTEK, University of Stellenbosch, Private Stellenbosch, South Africa.
9.55	Maria Agostina Cinellu	F. Cocco, G. Minghetti, S. Stoccoro, A. Zucca, M. Manassero, and M. Arca	Synthesis and Properties of Gold Alkene Complexes	Dipartimento di Chimica, Università di Sassari, via Vienna 2, Italy
10.20	Coffee	Coffee	Coffee	Coffee

Monday 4th September 2006
Late Morning Sessions

Symposium 5
SELECTIVE OXIDATION II

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Dan Enache	Jennifer K. Edwards, Philip Landon, Stuart H. Taylor, Christopher J. Kiely, David W. Knight, Graham J. Hutchings	Solvent-free oxidation of alkyl aromatic hydrocarbons using titania-supported gold-palladium catalysts	Cardiff University, Cardiff, UK
11.15	Ryan Richards	Juncheng Hu, Kake Zhu	Immobilized Gold Nanoparticles as Active Alkane Oxidation Catalysts	International University Bremen, Bremen
11.40	Alexander T. Nijhuis	Bert M. Weckhuysen	Direct Epoxidation of Propene over Gold-Titania – A kinetic and mechanistic study	Utrecht University, Sorbonnelaan, The Netherlands
12.05	Laura Prati	Di Wang, Dangsheng Su, Francesca Porta, Alberto Villa	Single-phase gold/palladium catalyst: the nature of synergistic effect	Dipartimento di Chimica Inorganica, Metallorganica e Analitica, Università di Milano, via Venezian Italy
12.30	*KEYNOTE:	Takahiro Inagaki, Naohiko	Selective Oxidation of	Nippon Shokubai Co.,

	Toshio Hayashi	Itayama, Hideyuki Baba	Alcohol to Carboxylic Ester over Supported Nano Gold Catalyst	Ltd., Strategic Technology Research Laboratory, Advanced Technology Research Center, Osaka, Japan
1.05	Lunch		Lunch	Lunch

Symposium 6
CATALYST DURABILITY

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Levi T. Thompson	Chang Hwan Kim	Role of Zirconia in Stabilizing Ceria Supported Gold Water Gas Shift Catalysts	University of Michigan,, USA
11.15	Abhaya Datye	John Gabaldon, Mangesh Bore and Tim Ward	Novel Architectures for Enhanced Stability of Gold Nanoparticle Catalysts	University of New Mexico, Albuquerque, NM, USA
11.40	G.C. Bond	F. Moreau	Influence of the surface area of the support on the activity of gold catalysts for CO oxidation	University of Salford, Salford, Greater Manchester
12.05	Véronique Pitchon	Svetlana Ivanova, Yassine Azizi, Corinne Petit	Gold catalysts with increased resistance to thermal deactivation: Applications to hydrocarbons oxidation for automotive application	Laboratoire des Matériaux, Surfaces et Procédés pour la Catalyse, UMR 7515 du CNRS-ECPM, Strasbourg, France
12.30	Nadine Thieleke	Ulf Pruesse, Klaus-Dieter Vorlop	Long term stability of Au/Al ₂ O ₃ catalysts in continuous glucose oxidation	Institute of Technology and Biosystems Engineering, Bundesallee Braunschweig, Germany
12.55	Lunch	Lunch	Lunch	Lunch

Symposium 7
SYNTHESIS OF GOLD NANOPARTICLES II

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Micha Asscher		Metallic nano-clusters growth and film patterning via weakly bound buffer layer	Department of Physical Chemistry, The Hebrew University of Jerusalem, Israel
11.15	Doug Shou An	Zhou Shi Ping	Photochemical synthesis for the colloidal gold nanoparticles	Kunming Institute of Precious Metals, China
11.40	Jacqueline van Marwijk	Esta van Heerden, Mariekie Gericke	Biological synthesis of Gold metal nanoparticles	Project AuTEK, University of the Free State, Bloemfontein, South Africa
12.05	Suresh Bhargava	Jamie Booth	Production of Gold Nanoparticles via gold salt reduction with L-lysine	RMIT University, Melbourne, 3001, Australia
12.30	Michael Cortie	Abbas Maarooof, Alessia Mortari, Nicholas Stokes, Elma van der Lingen	Mesoporous gold : a material with multiple possibilities	Institute for Nanoscale Technology, University of Technology Sydney, Broadway NSW 2007, Australia
12.55	Lunch		Lunch	Lunch

Symposium 8
METAL-METAL INTERACTIONS IN MACROMOLECULES

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.40	*KEYNOTE Daniel B. Leznoff		Coordination Polymers with Cyanoaurate Building Blocks as Advanced Materials	Department of Chemistry, Simon Fraser University, Burnaby, CANADA
11.15	Michael Katz	Pedro M. Aguiar, Raymond J. Batchelor, Alexei A. Bokov, Zuo-Guang Ye, Scott Kroeker, and Daneil B. Leznoff	The use of diamagnetic metal nodes with [Au(CN) ₂]- linkers for optical materials	Simon Fraser University, Burnaby B.C, Canada
11.40	Asuncion Luquin	César Elosúa, Elena Vergara, Juncal Estella, Elena Cerrada, Cándido Barrián, Ignacio R. Matías, Julián Garrido, Mariano Laguna	Application of gold complexes in the development of fiber optic nanosensors	Universidad Pública de Navarra, Pamplona, Spain
12.05	Julie Lefebvre	Fergal Callaghan, Jeff E. Sonier and Daniel B. Leznoff	Vapochromic and Magnetic Behaviour of Dicyanoaurate-Containing Coordination Polymers	Department of Chemistry, Simon Fraser University, Burnaby, BC, V5A 1S6, Canada
12.30	Pekka Pyykko		Ab initio calculations on new gold compounds	University of Helsinki, Virtasen Helsinki, Finland
12.55	Lunch		Lunch	Lunch

Monday 4th September 2006
Afternoon Sessions

POSTER QUICKYS 2:15pm TO 3.15pm
3.15pm Poster sessions – Catalysis, Nanotechnology, Materials and Chemistry

Symposium 9
CATALYST SELECTIVITY

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Jose Antonio Lopez-Sanchez	Neil Glanville, Jeniffer K. Edwards, Graham J. Hutchings	Partial versus total oxidation reactions: an inverse catalytic activity relationship?	Cardiff University, Cardiff, United Kingdom
4.55	Christine Baatz	Ulf Pruesse	Preparation of gold catalysts for glucose oxidation	Institute of Technology and Biosystems Engineering, Bundesallee Braunschweig, Germany
5.20	Marco Conte	Philip Landon, Dan Enache, Albert Carley and Graham Hutchings	New gold containing catalysts for the hydrochlorination of alkynes and alkenes	Cardiff University, Cardiff, UK
5.45	*KEYNOTE Qiang Xu		Reactions of Gold Atoms and Small Clusters with CO and CO/O₂: Matrix-isolation Infrared Spectroscopic and Theoretical studies	National Institute of Advanced Industrial Science and Technology Ikeda, Osaka, Japan
6.20	Close	Close	Close	Close
7.30	Reception and Banquet	Reception and Banquet	Reception and Banquet	Reception and Banquet

Symposium 10
CLEAN HYDROGEN PRODUCTION

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Laszlo Guzzi	Anita Horváth, Andrea Beck, Antal Sárkány, Györgyi Stefler, Olga Geszti, Leonarda Liotta, Anna Maria Venezia	Study on SiO ₂ supported Au-TiO ₂ nanostructures: the effect of preparation procedure on the catalytic CO oxidation in the presence of hydrogen	Department of Surface Chemistry and Catalysis, Institute of Isotope, Budapest, Hungary
4.55	Michael Bowker	Layla S. Al-Mazroai, Jane Greaves, Philip Davies	Photocatalytic Methanol Reforming on Au/TiO ₂ for Hydrogen Production	Cardiff University, Cardiff, UK
5.20	Johann Steyn	Gary Pattrick, Mike S Scurrall, Diane Hildebrandt, Elma van der Lingen	Highly efficient Au/TiO ₂ PROX system for complete removal of CO in fuel cell systems	Project AuTEK, AngloGold Ashanti Limited, Johannesburg, 2001, South Africa
5.45	Philip Landon	Jonathan Ferguson, Benjamin E. Solsona, Tomas Garcia, Albert F. Carley, Graham J. Hutchings*, Andrew Herzing, Christopher J. Kiely and Stanislaw E. Golunski	Selective oxidation of CO in the presence of H ₂ , H ₂ O and CO ₂ over a gold catalyst for fuel cell clean-up	Cardiff University, Cardiff, UK
6.10	Close	Close	Close	Close
7.30	Reception and Banquet	Reception and Banquet	Reception and Banquet	Reception and Banquet

Symposium 11
NEW MEDICAL APPLICATIONS FOR GOLD NANOPARTICLES I

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.20	*KEYNOTE Giulio Paciotti	David G. I. Kingston, Lawrence Tamarkin	Gold Nanoparticles: Novel Approach to Drug Delivery	CytImmune Sciences, Inc., Medical Center Drive, Rockville, U.S.A.
4.55	J. Carney		Gold Nanoparticles in Rapid Diagnostic Tests	British Biocell International, Cardiff, UK CF14 5DX
5.20	Gareth Redmond		Oligonucleotide-Nanoparticle Conjugates as Tools for Genetic Analysis	Nanotechnology Group, Tyndall National Institute, Cork, Ireland.
5.45	Günter Schmid	Maria Tsoli, Hubert Kuhn, Wolfgang Brandau, Helmut Esched Wolfgang Kreyling, Manuela Behnke	Cellular Uptake and Toxicity of Au ₅₅ Nanoclusters	University of Duisburg-Essen, Germany
6.10	Close	Close	Close	Close
7.30	Reception and Banquet	Reception and Banquet	Reception and Banquet	Reception and Banquet

Symposium 12
PHYSICAL CHEMISTRY AND RECOVERY

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Louise M. Kinsella	L.Declan Burke, Albert A. Ruth	Electrochemical Investigation of Non-Equilibrium States of Gold Surfaces.	Chemistry Department, University College Cork, Cork, Ireland
4.55	Kotaro Yonezu	Shinichi Kitamoto, Hironori Ohashi, Yoshihiro Okaue, Koichiro Watanabe and Takushi	Coprecipitation of Au(III) complex anions with hydrous iron(III) oxide and their spontaneous reduction: Application to recovery of gold from the wastes of electronic products	Dept. of Earth Resources Engineering, Kyushu University, Fukuoka, Japan

		Yokoyama		
5.20	Jeremy D. Glennon	Anne M. O'Keeffe, Jean-Marie Prat, Josephine Treacy, John P. Hanrahan, Justin D. Holmes	Unique Properties of a Clean Technology for Gold Extraction using Supercritical Carbon Dioxide	Department of Chemistry, Analytical & Biological Research Facility (ABCRF), and Supercritical Fluid Center, University College Cork, Cork, Ireland.
5.45				
6.10	Close	Close	Close	Close
7.30	Reception and Banquet	Reception and Banquet	Reception and Banquet	Reception and Banquet

Tuesday 5th September 2006

Morning Sessions

8.30am Keynote: Nabil Lawandy
“Nano-particle Plasmonics of Gold in Active Media”

Symposium 13

AIR POLLUTION CONTROL

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Albert Carley	Jonathan Bartley, Graham J. Hutchings, David Morgan, M. Wyn Roberts, Nianxue Song and Stuart Taylor	CO dissociation and reaction at supported gold catalysts	Cardiff University, Cardiff, United Kingdom
9.30	Ben-Zu Wan	Chien-Nan Kuo, Huang-Fu Chen	Nano-gold supported on TiO ₂ coated glass-fiber for removing CO toxic gas in air	National Taiwan University, Taipei 106, Taiwan
9.55	Massimiliano Comotti	Wen-Cui Li, Bernd Spliethoff, Ferdi Schüth	Metal-support interaction in highly active gold catalysts for CO oxidation	Max Planck Institut für Kohlenforschung, Mülheim an der Ruhr, Germany
10.20	Coffee	Coffee	Coffee	Coffee

Symposium 14

WATER-GAS SHIFT

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Frederic C. Meunier	D. Reid, A. Goguet, D. Tibiletti, S. Shekhtman, C. Hardacre, R. Burch, W. Deng and M. Flytzani-Stephanopoulos	First operando DRIFTS-SSITKA evidence of a graded reactivity of surface formates and carbonates over Au-CeO ₂ water-gas shift catalysts	CenTACat, Queen's University Belfast, Belfast, Northern Ireland, UK.
9.30	Michiel Makkee	Bozena Aeijselts Averink Silberova, Guido Mul, Jacob A. Moulijn	Multitask of Au in the water-gas shift reaction	DeflChemTech, Catalysis Engineering, Faculty of Applied Sciences, Delft University of Technology, Julianalaan 136, Delft, 2628 BL, the Netherlands
9.55	George Avgouropoulos	Joan Papavasiliou, Maela Manzoli, Flora Boccuzzi, Vasko Idakiev, Tatyana Tabakova, Theophilos Ioannides	Catalytic performance of Au/doped ceria catalysts for the water-gas shift and preferential CO oxidation reactions	FORTH/ICE-HT, Stadiou str., Platani, Patras GR-265 00, Greece
10.20	Coffee	Coffee	Coffee	Coffee

Symposium 15
PLASMONICS AND NANO ELECTRONICS I

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	M. Lamy de La Chapelle	J. Grand, L. Billot, A.-S. Grimault, A. Vial, J.-L. Bijeon, P.-M. Adam, and P. Royer	Role of dipolar and multipolar localized surface plasmons in surface-enhanced Raman scattering of shape-controlled metallic particles in regular arrays	Université de Technologie de Troyes, 12 rue Marie Curie, Troyes, France
9.30	Michael Cortie	Xiaoda Xu, Dakrong Pissuwan, Stella Valenzuela	Plasmonic heating in gold nanorods and its exploitation	University of Technology Sydney, Broadway Australia
9.55	Gareth Redmond	Garret A. O'Brien, Jon A. Preece, and Aidan J. Quinn	Nanocrystals for Nanoelectronics	Tyndall National Institute, Lee Maltings, Prospect Row, Cork, Ireland
10.20	Coffee	Coffee	Coffee	Coffee

Symposium 16
NEW GOLD CHEMISTRY

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Jose M. Lopez de Luzuriaga	Eduardo J. Fernández, Antonio Laguna, Miguel Monge, M. Elena Olmos and María Rodríguez-Castillo	Pyridine and Polypyridine Gold Complexes. An Emerging Class of Luminescent Materials	Departamento de Química. Grupo de síntesis química de La Rioja, Madre de Dios Logroño (Spain)
9.30	M. Concepcion Gimeno	Carmen Larraz, Olga Crespo, Antonio Laguna, M. Dolores Villacampa	Luminescent Heteropolynuclear Complexes With Chalcogenide And Chalcogenolate Ligands	Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza- Spain
9.55	*KEYNOTE John P. Fackler, Jr.	Hanan Abdou, Ahmed Mohamed, Lisa Perez, Andrew Mayer, Alfredo Burin, Rosanna Galassi	New Gold Chemistry with Nitrogen Ligands	
10.30	Coffee	Coffee	Coffee	Coffee

Tuesday 5th September 2006
Late Morning Sessions

Symposium 17
AIR AND WATER POLLUTION CONTROL

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Claude Descorme	Ngoc Dung Tran, Michèle Besson	On the impact of the preparation parameters on the activity of gold catalysts in the Catalytic Wet Air Oxidation of succinic acid	Institut de Recherches sur la Catalyse (IRC), 2 Avenue Albert Einstein, Villeurbanne Cedex, France
11.15	Steven H. Overbury	J.C. Clark, B.K. Changa, Viviane Schwartz, D. R. Mullins, Sheng Dai	Size dependence and mechanistic studies of CO oxidation by Au catalysts	Oak Ridge National Laboratory, Oak Ridge TN, USA
11.40	S. Siffert	M. Hosseini, H. L. Tidahy, R.	Promotional effect of gold	Université du Littoral – Côte

		Cousin, J.-F. Lamonier, A. Aboukais, A. Vantomme, B.-L. Su	added to palladium supported on a new meso-macroporous TiO ₂ for total oxidation of Volatile Organic Compounds	d'Opale, 145 avenue Maurice Schumann, 59140 Dunkerque, France
12.05	Mayfair C. Kung	Juan D. Henao, Tiziana Caputo, a Jeff H. Yang, and Harold H. Kung	In-situ transient FTIR and XAS study of CO oxidation on Au/TiO ₂	Department of Chemical and Biological Engineering, Northwestern University, Evanston, IL, USA
12.30	Michael S. Wong	Michael O. Nutt, Kimberly N. Heck, Pedro Alvarez	Materials Synthesis and Catalysis of Palladium-coated Gold Nanoparticles	Department of Chemical and Biomolecular Engineering, Rice University, Houston, TX, USA.
12.55	Lunch	Lunch	Lunch	Lunch

Symposium 18
THEORY AND MECHANISMS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Norbert Krause		The Golden Gate to Catalysis	Dortmund University, Organic Chemistry II, Dortmund, Germany
11.15	Luis M. Molina	Bjoerk Hammer, Maria J. López and Julio A. Alonso	Ab initio studies of propene epoxidation at gold nanoparticles supported on anatase TiO ₂	Universidad de Valladolid, Valladolid, Spain
11.40	Bert Chandler	John D. Gilbertson, Bethany J. Auten, & Christina J. Crump	Dendrimer Templated Au and Au-M Nanoparticles: New Models for Au-based Catalysts	Trinity University, San Antonio, TX, 78212, USA
12.05	Norbert Weiher	Eveline Bus, Laurent Delannoy, Catherine Louis, Jeffrey T. Miller, David E. Ramaker, Jeroen A. van Bokhoven, Sven L. M. Schroeder	In situ studies on the structure of the active site of supported gold catalysts	School of Chemical Engineering and Analytical Science, The University of Manchester, UK
12.30	*KEYNOTE Jens Norskov		Theoretical Aspects of Gold Catalysis	Technical University of Denmark, Denmark
1.05	Lunch		Lunch	Lunch

Symposium 19
SELF-ASSEMBLED SYSTEMS I

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	To be confirmed			
11.15	Koji Okamoto	Riku Tsuge, Hiroaki Oikawa, Yutaka Iwashima, and Hirofumi Nakagawa	Study of orientation of antibody-gold cluster conjugates	Tanaka Kikinzoku Kogyo K.K. Medical Division, Hiratsuka, Japan
11.40	Hannu Häkkinen,	Michael Walter, Henrik Grönbeck	Thiolate-protected Gold Nanoclusters: New Insights of Bonding	University of Jyväskylä, Finland
12.05	Takeshi Kawai	Reizo Ito, Takeshi Kondo	Gold nanowire fabricated using organogel template of a long-chain amidoamine derivative	Tokyo University of Science, Tokyo, Japan
12.30	Hiroaki Koga	Takahisa Ohno	Growth of noble metal nanostructures on the Bi nanoline surface: A first-principles study	Computational Materials Science Center National Institute for Materials Science Sengen, Tsukuba, Japan
12.55	Lunch		Lunch	Lunch

Symposium 20
SYNTHESIS OF GOLD NANOPARTICLES III

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
10.50	Sven Mönninghoff	Wolf Matthias Pankau, Günter von Kiedrowski	Single phase synthesis of water soluble, thermostable and monoconjugable gold nano particles via direct reduction of Au(III)-compounds	Lehrstuhl für Organische Chemie I, Ruhr-Universität Bochum, Universitätsstr. Bochum, Germany
11.15	Tom Mortier	André Persoons, Thierry Verbiest	Gold colloid formation in aqueous solutions and in chloroform solutions of cetyltrimethylammonium bromide	Department of Chemistry, Catholic University of Leuven, Belgium
11.40	Roberta Brayner	Hélène Barberousse, Shakib Djediat, Claude Yéprémian, Thibaud Coradin, Jacques Livagec, , Alain Coutéb and Fernand Fiévet	Cyanobacteria as bioreactors : an original and low-cost nontoxic route to synthesize metallic nanoparticles	Interfaces, Traitements, Organisation et Dynamique des Systèmes Université Paris 7- Denis Diderot, case Paris Cedex 05
12.05	K.L.N. Phani	S.Senthil Kumar, C.Siva Kumar, J.Mathiyarasu	One-Pot Synthesis of Highly Stable Gold Nanoparticles by Reduction of Au ³⁺ using 3,4-ethylenedioxythiophene with polystyrenesulfonate	EEC Division, Central Electrochemical Research Institute, Karaikudi, India
12.30	Jessica Rodriguez-Fernandez	Jorge Pérez-Juste, Luis Manuel Liz-Marzán	Push-Pull Synthesis of Spherical Gold Nanoparticles of Controlled Size	Departamento de Química Física, Universidade de Vigo, 36310, Vigo, Spain
12.55	Lunch		Lunch	Lunch

Tuesday 5th September 2006
Afternoon Sessions

CATALYSIS POSTER QUICKYS 2:15pm TO 3.15pm

3.15pm Poster sessions – Catalysis

Symposium 21
SELF-ASSEMBLED SYSTEMS II

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
2.15	Jong-Chan Lee	Sang-Ho Cha, Jong-Uk Kim, Sung-Eun Kim	Synthesis of gold nano sheets using poly(ethylene oxide)-poly(propylene oxide)-poly(propylene oxide) block copolymers	Seoul National University, Seoul, Korea
2.40	Philani N. Mashazi	Kenneth I. Ozoemena, David M. Maree, Tebello Nyokong	Self-assembled monolayer (SAM) of cobalt tetracarboxylic acidchloride phthalocyanine covalently attached onto a preformed mercaptoethanol SAM: A novel method	Project AuTEK, Rhodes University, Grahamstown, South Africa
3.05	Chuan-Jian Zhong		Novel Sensing Nanomaterials: Molecularly-Mediated Assembly of Nanoparticles	State University of New York at Binghamton, Binghamton, NY USA

3.30	Raphulu Mpfunzeni	Daven Compton,* Elma van der Lingen	The Synthesis and Characterization of Gold/polymer composites	Project AuTEK, Mintek, Private Bag Randburg, South Africa
4.55	Tea	Tea	Tea	Tea

Symposium 22
ADVANCED ALLOYS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
2.15	Monica Fabrizio	Marino Battagliarin, Enrico Miorin, Simone Battiston, Sergio Daolio	Precious metals deposition by sputtering: an appealing innovation for traditional production	Institute for Energetics and Interface of CNR, Padova, Italy
2.40	Stefania Ferrara	Kirsten Bobzin, Erich Lugscheider, Felix Ernst, Jürgen Rösing	Challenging Gold Based Filler Metals for Uses in Various Technologies	Surface Engineering Institute, Aachen University, Aachen, Germany
3.05	Takanobu Shiraishi	Yasuko Takuma, Eri Miura, Takeshi Fujita, Kunihiro Hisatsune	Variations of Colour with Alloying Elements in Pd-free Au-Pt-based High Noble Dental Alloys	Graduate School of Biomedical Sciences, Nagasaki University 1-7-1 Sakamoto, Nagasaki, Japan
3.30	Jorg Fischer-Buhner	Gerd Wagner	Ultrafine-grained gold bulk material by Severe Plastic Deformation	fem Forschungsinstitut Edelmetalle & Metallchemie, Schwäbisch Gmünd, Germany
4.55	Tea	Tea	Tea	Tea

Symposium 23
CHEMICAL SYNTHESIS VIA HOMOGENEOUS AND HETEROGENEOUS CATALYSIS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Tatsuya Tsukuda	Hironori Tsunoyama, Hidehiro Sakurai	Polymer-stabilized gold clusters as quasi-homogenous catalysts for aerobic oxidation in water	Research Center for Molecular-Scale Nanoscience, Institute for Molecular Science, Myodaiji, Okazaki, Japan
4.55	Jennifer Edwards	Benjamin Solsona, Graham Hutchings, Albert Carley	Direct synthesis of hydrogen peroxide from H ₂ and O ₂ using supported Au-Pd catalysts	School of Chemistry, Cardiff University, Cardiff, UK
5.20	Mariano Laguna	Lathe Jones, Sergio Sanz, Fabian Mohr	Carbon – Carbon and Carbon – Heteroatom Coupling Reactions Catalysed by Gold Complexes in Water	Instituto de Ciencia de Materiales de Aragón, Universidad de Zaragoza -, Spain
5.45	*KEYNOTE: Stephen Hashmi		Gold Catalysis: News from the Homogeneous Wing	Universität Stuttgart, Pfaffenwaldring, Stuttgart, Germany
6.20	Close	Close	Close	Close
7.30 for 8.00	Irish Evening	Irish Evening	Irish Evening	Irish Evening

Symposium 24
CHARACTERISATION

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Jeroen A. Van Bokhoven	Moniek Tromp, Catherine Louis, Laurent Delannoy, Olga Safonova, and Pieter Glatzel	In situ XAS characterization of the activation of Oxygen on Gold - Alumina Catalysts	Institute for Chemical and Bioengineering, Swiss Federal Institute of Technology Zurich, Zurich, Switzerland
4.55	Tomoki Akita	Koji Tanaka, Masanori Kohyama, Masatake Haruta	Analytical TEM study on structural changes of Au particles on cerium oxide	National Institute of Advanced Industrial Science and Technology, AIST, Midorigaoka Ikeda, Osaka, Japan
5.20	Andrew A. Herzing	Masashi Watanabe, Christopher Kiely, Daniel Enache, Jennifer Edwards, Philip Landon, Albert Carley and Graham Hutchings	Advanced Analytical Electron Microscopy Studies of the Development of the Core-Shell Morphology in Au-Pd Catalysts	Center for Advanced Materials and Nanotechnology, Lehigh University, Bethlehem, PA USA.
5.45	Shamil Shaikhutinov	David E. Starr, Hans-Joachim Freund	Gold model catalysts supported on thin films: support and environmental effects.	Department of Chemical Physics, Fritz-Haber Institute, Berlin, Germany
6.10	Close	Close	Close	Close
7.30 for 8.00	Irish Evening	Irish Evening	Irish Evening	Irish Evening

Symposium 25
SYNTHESIS OF GOLD NANOPARTICLES IV

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Francesca Porta	Vladimiro Dal Santo, Zeljka Krpetic, Pierangelo Francescato, Giovanna Speranza	Gold colloidal nanoparticles stabilized by neutral ligands and peptides	Dip. Chimica Inorganica Metallorganica Analitica, Center of Excellence Milano, Italy
4.55	Toshiharu Teranishia	Yukatsu Shichibu, Yuichi Negishi, Tatsuya Tsukuda	Large-Scale Selective Synthesis of Thiolated Au ₂₅ Clusters	Graduate School of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan
5.20	Robert T. Tshikhudo	Jennifer L. Brennan, Zhenxin Wang, Mathias Brus	Engineering of easily functionalized water-soluble Au monolayer protected clusters for potential bioanalytical applications	The University Of Liverpool, Liverpool, UK
5.45	Reinhard Boeck		Electrodeposition of gold nano- and microcrystallites on metallic foams from room-temperature ionic liquids (1-Butyl-3-methyl-imidazolium chloride tetrafluoroborate)	FEM – Research Institute for Precious Metals and Metals Chemistry, Dep. of Electrochemistry, Gmuend, Germany
6.10	Close	Close	Close	Close
7.30 for 8.00	Irish Evening	Irish Evening	Irish Evening	Irish Evening

Symposium 26
MEDICAL AND BIOLOGICAL APPLICATIONS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
4.30	Zolisa A. Sam	Andreas Roodt	Coordination Chemistry of Gold(I) Complexes with view as Potential Chemotherapeutic Agents	Project AuTEK, Department of Chemistry, University of the Free State, Bloemfontein, South Africa
4.55	Frankline K. Keter	James Darkwa, D. Jasper G. Rees, O. A. Oyetunji	Gold Pyrazole Complexes: Synthesis, Characterisation and Kinetics. Comparative Studies with Platinum and Palladium Analogues	Project AuTEK, Department of Chemistry, University of the Western Cape, Private Bag Bellville, South Africa
5.20	Judy Caddy	David S. Khanye, Marcus Layh, Helder M. Marques, Manuel A. Fernandes	Gold(I) Phosphine Complexes Incorporating Alkyl Substituents with Ethane and Ethylene Backbones	Project AuTEK, School of Chemistry, University of Witwatersrand., Private Bag 3, South Africa
5.45	Edward R.T Tiekink	Michael W. Whitehouse, Chris Brown, Gillian Bushell	Nanogoldpharmaceutics: The Use of Colloidal Gold to Treat Experimentally-Induced Arthritis in Rat Models	Department of Chemistry, The University of Texas at San Antonio, San Antonio, Texas 78249-0698, U.S.A.
6.10	Close	Close	Close	Close
7.30 for 8.00	Irish Evening	Irish Evening	Irish Evening	Irish Evening

Wednesday 6th September 2006
Morning Sessions

8.30am Keynote: Vivian Wing-Wah Yam
" Luminescent Gold-Containing Molecular Materials - From Fundamentals to Functions "

Symposium 27

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	*KEYNOTE: Bruce Gates	J. C. Fierro-Gonzalez	Evidence of the Active Species in Supported Gold Catalysts	Department of Chemical Engineering and Materials Science University of California, Davis, CA, USA
09.40	Round Table	Round Table	Round Table	Round Table
10.40	Coffee	Coffee	Coffee	Coffee

Symposium 28
SELF-ASSEMBLED SYSTEMS III

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Patrick Clasen	Roger Ristau, Shuailei Ma, Irshad Hussain, Mathias Brust, Martin P. Harmer, Christopher J. Kiely	Thermal Stability Studies of Self-Assembled Arrays of Gold Nanoparticles	Center for Advanced Materials and Nanotechnology, Lehigh University, Bethlehem, PA, USA
9.30	Yong Yang	Shigemasha Matsubara, Masayuki Nogami, Jianlin Shi	Controlling the aggregation behavior of gold nanoparticles	Department of Materials Science and Engineering, Nagoya Institute of Technology Showa, Nagoya, 466-

				8555, Japan
9.55	Rodolfo Zanella	Elena V. Basiuk, Patricia Santiago, Vladimir A. Basiuk, Edgar Mireles, Iván Puente-Lee, José M. Saniger	Deposition of Small Gold Particles onto Thiol-Functionalized Multi-Walled Carbon Nanotubes	Centro de Ciencias Aplicadas y Desarrollo Tecnológico (CCADET), Universidad Nacional Autónoma de México, Mexico
10.40	Coffee	Coffee	Coffee	Coffee

Symposium 29
LUMINESCENCE: SCIENCE AND APPLICATIONS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
9.05	Vincent J. Catalano	Anthony O. Etogo, Adam L. Moore	Luminescent Gold(I) Coordination Polymers Constructed with N-Heterocyclic Carbene Ligands	Department of Chemistry, University of Nevada, Reno, NV, USA
9.30	Miguel Monge	Eduardo J. Fernández, Antonio Laguna, José M. López-de-Luzuriaga, Manuel Montiel, M. Elena Olmos, Raquel C. Puelles and María Rodríguez	Theoretical calculations on Au(I)-M(I) (M = Ag, Cu and Tl) compounds: metallophilic interactions and photophysical properties	Departamento de Química, Universidad de La Rioja, Grupo de Síntesis Química de La Rioja, Complejo Científico-Tecnológico, Logroño
9.55	Antonio Laguna	Eduardo J. Fernández, José M. López de Luzuriaga, Miguel Monge, Manuel Montiel, María E. Olmos, Raquel C. Pueyes, María Rodríguez-Castillo	Heteropolynuclear Gold Complexes. A Strategy for Luminescence	Departamento de Química. Grupo de síntesis química de La Rioja, Madre de Dios 51. Logroño (Spain)
10.40	Coffee	Coffee	Coffee	Coffee

Wednesday 6th September 2006
Late Morning Sessions

Symposium 30
HYDROGENATION

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
11.10	Jacques Fraissard	Vasilyi Gerd, Kazymyr I. Patrylak, Yu G. Voloshyna	Isomerization of Hexane on Pt-Au Nanoparticles Supported on Zeolites.	University P. and M. Curie, Laboratoire de Physique Quantique, ESPCI, Paris, France.
11.35	A. Hugon	L. Delannoy, C. Louis	Gold based catalysts performances in selective hydrogenation of diene in an excess of alkene	Laboratoire de Réactivité de Surface, UMR 7609, Université P. et M. Curie, Paris France
12.00	Candida Milone	R. Ingoglia, L. Schipilliti, C. Crisafulli, S. Galvagno	A comparative study on the selective hydrogenation of a,b unsaturated aldehyde and ketone to unsaturated alcohols on Au supported catalysts.	Department of Industrial Chemistry and Materials Engineering, University of Messina, Messina, Italy
12.25	Naoki Toshimo	Rei Ito, and Yukihide Shiraishi	Trimetallic Nanoparticles Having a Au-Core Structure	Tokyo University of Science, Yamaguchi, SanyoOnoda-shi, Yamaguchi, Japan
12.50	Wind-up session &	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes

	prizes			
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Symposium 31
CATALYST PREPARATION II

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
11.10	Masatake Haruta	Wataru Minagawa, Naoto Kinoshita, and Kyoko Kuroda	Deposition of Gold Nanoparticles on Organic Polymers	Tokyo Metropolitan University, 1-1 Minami-Osawa, Hachioji, Tokyo, Japan
11.35	Tom Wood (Larry Brey presenter)	Craig Chamberlain, Allen Siedle, Gina Buccellato, Duane Fansler, Marvin Jones, John Huberty, Larry Brey, Shih-hung Chou, Manish Jain, Badri Veeraraghavan	Highly Active CO Oxidation Catalysts Via Physical Vapor Deposition - Key Differences Between Solution - Derived Nanogold Catalysts and Nanogold by Physical Vapor Methods	201-4N-01 Corporate Research Materials Laboratory 3m Center, St. Paul, MN
12.00	Michaël ISA	Jean-Christophe Valmalette, Satoshi Kameoka, Jean-Pierre Dallas, An-Pang Tsai	Spontaneous nanostructuring of gold alloys in air: new approach for the synthesis of nanosized oxides-gold catalysts.	Institute of Multidisciplinary Research for Advanced Materials Tohoku University, 2-1-1, Katahira, Aoba-Ku, Sendai, JAPAN
12.25	Chuan-Jian Zhong		Synergistic Activity of Gold Alloy Nanoparticle Catalysts	Department of Chemistry, State University of New York at Binghamton, Binghamton, NY. USA
12.50	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes

Symposium 32
CHEMICAL PHYSICS OF GOLD NANOPARTICLES

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
11.00	*KEYNOTE: Paul Mulvaney		Single Particle Spectroscopy of Gold Nanocrystals	School of Chemistry, University of Melbourne, Australia
11.35	Ignacio L. Garzón		Trends in the structural properties of gold nanoclusters	Instituto de Física, Universidad Nacional Autónoma de México, México D.F. México
12.00	C.H. Classens	M.J.H. Hoffman, J.J. Terblans, H.C. Swart, R. Harris	Experimental and Computational Investigation of Gold Nanoparticle Growth on Graphite	Project AuTEK, Mintek, Private Bag X3015, Randburg, South Africa
12.25	Michael J. Ford	Benjamin Soulé de Bas and Michael B. Cortie	Melting in small clusters of gold	Institute of Nanoscale Technology, University of Technology, Sydney, NSW, Australia
12.50	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes

Symposium 33
ADVANCED MATERIALS

Time	Main Author	Other Authors	Title of Abstract	Country of Origin
11.10	K. Wongpreedee	T. Tansakul, H.J. Schuster, K. Chookruvong	Purple Gold: Past, Present, and Future to Ductile Intermetallics	Division of Materials Science (Gems and Jewelry), Srinakhariwirot University, Bangkok, Thailand

11.35	Lidija Šiller	Yuriy V. Butenko, Luis Alves, JianhuaYang	Effect of X-ray irradiation on gold nitride films	University of Newcastle upon Tyne, Newcastle upon Tyne, U.K
12.00	Antonello Vincenzo	Michele Curioni, Pietro L. Cavallotti	Shaped gold wire by a two-stage electroforming process	Politecnico di Milano, Dipartimento di Chimica, Materiali, Ingegneria Chimica "G. Natta", Via Mancinelli, 7, Milano, Italy
12.25	*KEYNOTE: Michael Cortie	Michael Prior, Fiona Levey	Shape memory phase transformations in the Au-Al-Cu alloy system	Institute for Nanoscale Technology, University of Technology Sydney, Broadway NSW, Australia
1.00	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes	Wind-up session & prizes