

**Sunday, 26<sup>th</sup> July**

- 14:45 **Official Opening & General Interest Plenaries – Room B (gr. HS)**  
15:00 **Peter Kondos**, Barrick Gold  
**An overview of modern gold mining**  
15:55 **Christian Hagelüken**, Umicore  
**Recycling of gold from electronics**  
16:50 *Coffee Break*  
17:20 **Christiane Eluère**, Musee De France  
**The earliest story of gold and goldwork in continental Europe**  
18:30 **Welcome Reception**

**Monday, 27<sup>th</sup> July**

- 08:25 **Plenary 1 – Room B (gr. HS)**  
Chair: Vivian W. W. Yam  
**Richard Puddephatt**, University of Western Ontario, Canada  
**The chemistry of gold**  
13:40 **Plenary 2 – Room B (gr. HS)**  
Chair: A. Stephen K. Hashmi  
**Masatake Haruta**, Tokyo Metropolitan University, Japan  
**Chemical Innovation by gold catalysts**

**Symposium 1 – HETEROGENEOUS CATALYSIS I – Room A (HS West)**

- Session Chair:** Graham Hutchings  
09:05 **Keynote 1:** 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 and platinum catalysts**  
10:00 Jose Antonia Lopez-Sanchez  
**Oxidation of polyols using Au-Pd alloy supported nanocrystals**

**Symposium 2 – HETEROGENEOUS CATALYSIS II – Room B (gr. HS)**

- Session Chair:** Wayne Goodman  
09:05 **Keynote 2:** Jeroen A. van Bokhoven, ETH Zürich, Switzerland  
**Catalytically active species in gold catalysts**  
09:35 Nicholas Dummer  
**Oxidative dehydrogenation of cyclohexanes over supported gold catalysts**  
10:00 Valérie Caps  
**Titania-doped mesostructured silicates as efficient supports for gold PROX catalysts**

**Symposium 3 – GOLD NANOPARTICLES IN BIOSENSING AND BIOMEDICINE (I) – Room C (HS Ost)**

- Session Chair:** Jim Johnston  
9:05 **Keynote 3:** Vincent Rotello, University of Massachusetts, USA  
**Gold nanoparticles as diagnostics and therapeutics**  
9:35 Qun Huo  
**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**

**Symposium 4 – DONOR LIGANDS AT GOLD – Room D (kl. HS)**

- Session Chair:** Vivian Yam  
9:10 Mayfair Kung  
**Carbon monoxide assisted epoxidation of butene**  
9:35 Stephanie Cronje  
**Imine donor complexes of Gold(I)**  
10:00 Hannu Häkkinen  
**Ligand-protected gold cluster superatoms: Robust and well-understood building blocks of nano-matter**

**Symposium 5 – PROCESSING AND PROPERTIES OF COLOURED GOLD INTERMETALLIC ALLOYS - Room E (HS Geo)**

- Session Chair:** Jörg Fischer-Bühner  
09:10 Kageeporn Wongpreedee

- 09:35 **Microstructure of Au-Al systems manipulated by rapid solidification techniques**  
Delfim Soares
- 10:00 **Tarnishing resistance of gold alloys with two types of intermetallic compounds**  
Ulrich E. Klotz
- Surface engineering of coloured gold alloys**

*Coffee Break from 10:25 to 10:55*

*Late Morning Sessions on Monday*

**Symposium 6 – HETEROGENEOUS CATALYSIS I, continued – Room A (HS West)**

- Session Chair:** Jeroen A. van Bokhoven
- 11:00 Mike Scurrall  
**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 Constantin Czekelius  
**Endo-Cyclization of 1,4-Diynes to 7-Membered Ring Heterocycles**
- 12:15 Arne Wittstock  
**Gas-phase oxidation of alcohols with nanoporous gold**

**Symposium 7 – HETEROGENEOUS CATALYSIS II, continued – Room B (gr. HS)**

- Session Chair:** Avelino Corma
- 11:00 Bert D. 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  
**Titania nanotube supported gold photoelectrodes**

**Symposium 8 – OPTICAL PROPERTIES OF GOLD NANOPARTICLES (I) – Room C (HS Ost)**

- Session Chair:** José Pingarrón
- 10:55 **Keynote 4:** Mikael Käll, Chalmers University of Technology, Sweden  
**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**

**Symposium 9 – SYNTHESIS AND PROPERTIES OF GOLD NANOPARTICLES (I) – Room D (kl. HS)**

- Session Chair:** T. Pradeep
- 10:55 **Keynote 5:** Didier Astruc, Université Bordeaux, France  
**Interplay between gold nanoparticles and dendrimers**
- 11:25 Ferdinand Gonzaga  
**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**

*Lunch from 12:40 to 14:20*

**Monday, 27<sup>th</sup> July – Afternoon Sessions**

**Symposium 10 – HETEROGENEOUS CATALYSIS I, continued – Room A (HS West)**

- Session Chair:** Shamil Shaikhutdinov
- 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**

- amines**  
 15:15 Di Wang  
**On the mechanism of Au-Pd synergistic effect in liquid phase oxidation of alcohols**  
 15:40 Alberto Villa  
**Gold supported N-functionalized MWCNTs: enhancement of the activity in the oxidation of alcohols by the basicity of the support**

**Symposium 11 – HETEROGENEOUS CATALYSIS II, continued – Room B (gr. HS)**

- Session Chair:** Henrique Teles  
 14:25 Alexander Nijhuis  
**A transient kinetic analysis of the epoxidation propene over Gold-Titania catalysts**  
 14:50 Jeffrey Miller  
**Performance of Au catalysts for the water-gas shift reaction**  
 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**

**Symposium 12 – APPLICATIONS OF GOLD NANOPARTICLES (I) – Room C (HS Ost)**

- Session Chair:** Richard Palmer  
 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**

**Symposium 13 – LUMINESCENCE: SCIENCE AND APPLICATIONS – Room D (kl. HS)**

- Session Chair:** John P. Fackler, Jr.  
 14:20 **Keynote 6:** Alan Balch, University of California, Davis, USA  
**Remarkable aspects of the chemistry and luminescence of crystalline Gold(I) complexes**  
 14:50 Vivian W. W. Yam  
**Luminescent gold-containing molecular materials - from synthesis to supramolecular assembly and functions**  
 15:15 Hassan Rabaa  
**Photoluminescence of trinuclear Au(I) complexes and EHTB modelling of [cyclo-Au<sub>3</sub>(μ<sub>2</sub>-L-R,R')<sub>3</sub>]**  
 15:40 Igor Koshevoy  
**Self-assembly of intensely luminescent phosphine-alkynyl Au<sup>I</sup>-M<sup>I</sup> (M = Cu<sup>I</sup>, Ag<sup>I</sup>) clusters**

**Symposium 14 – HIGH-TECH APPLICATIONS OF GOLD ALLOYS – Room E (HS Geo)**

- Session Chair:** Elma van der Lingen  
 14:20 **Keynote 7:** Eugen Milke, W. C. Heraeus GmbH, Germany  
**Gold wire bonding in microelectronics - an overview**  
 14:50 Sabina Gade  
**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 – fundamentals and applications**  
 15:40 Naruki Endo  
**Hydrogen absorption in the Au-Zr binary intermetallic compounds – possibility for activation process as catalysts**

*Coffee Break from 16:05 to 16:30*

**Poster Session 1 from 16:30 to 18:30**

**Tuesday, 28<sup>th</sup> July**

- 08:25 **Plenary 3 – Room B (gr. HS)**  
 Chair: A. Stephen K. Hashmi  
**Dean Toste, UC Berkeley, USA**  
**Homogenous catalysis with gold: development, applications and enantioselective catalysis**

- 13:40 **Plenary 4 – Room B** (gr. HS)  
Chair: A. Stephen K. Hashmi  
**Wayne Goodman**, Texas A & M University, USA  
**Catalysis by gold - palladium alloys: The role of isolated palladium sites**
- 15:45 **Plenary 5 – Room B** (gr. HS)  
Chair: Jörg Fischer-Bühner  
**Pietro Cavallotti**, Politecnico Milano, Italy  
**Gold plating: from a timeless art to an evergreen technology**
- Symposium 15 – HETEROGENEOUS CATALYSIS I, continued – Room A** (HS West)  
**Session Chair:** Masatake Haruta
- 09:10 Geoffrey Bond  
**Formulation of mechanisms for gold-catalysed reactions**
- 09:35 Sandra Lang  
**Reactions of small gold cluster cations with H<sub>2</sub>, O<sub>2</sub>, and CH<sub>4</sub>: Implications for selective methane oxidation**
- 10:00 Cristina Della Pina  
**New routes to high-value chemicals and conducting polymers by gold catalysis**
- Symposium 16 – HETEROGENEOUS CATALYSIS II, continued – Room B** (gr. HS)  
**Session Chair:** Chris Kiely
- 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<sub>4</sub> catalysts for the low temperature Water-Gas Shift reaction; identification of the active Au species**
- Symposium 17 – Gold Nanoparticles in Biosensing and Biomedicine (II) – Room C** (HS Ost)  
**Session Chair:** Olivier Pluchery
- 09:10 Ramya Jagannathan  
**Functionalizing gold nanoparticles for biomedical applications: from catching crystals at birth to mature activity**
- 09:35 Cleo. Dodgen  
**Development of nanotechnology-based therapeutic approaches toward the treatment of HIV**
- 10:00 Ndabenhle Sosibo  
**Some cytotoxicity studies of gold monolayer protected clusters (MPCs) and bioconjugates**
- Symposium 18 – THEORY AND MECHANISMS – Room D** (kl. HS)  
**Session Chair:** Daniel Leznoff
- 09:05 **Keynote 8:** Pekka Pykkö, University of Helsinki, Finland  
**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**
- Symposium 19 – NEW MATERIALS: SYNTHESIS, MICROSTRUCTURES AND APPLICATIONS – Room E** (HS Geo)  
**Session Chair:** Pietro Cavallotti
- 09:05 **Keynote 9:** Boonrat B.Lohwangwatana, Chulalongkorn University, Thailand  
**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**

*Coffee Break from 10:25 to 10:55*

*Late Morning Sessions on Tuesday*

- Symposium 20 – HOMOGENEOUS CATALYSIS – Room A** (HS West)  
**Session Chair:** A. Stephen K. Hashmi
- 10:55 **Keynote 10:** Seunghoon Shin, Hanyang University, Seoul, South Korea  
**Gold-catalyzed azomethine ylide generation and [3+2]-dipolar cycloaddition via internal redox between nitrene 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  
**Inter and Intramolecular addition of OH to alkynes in green solvents**
- 12:15 Liming Zhang  
**Au-catalyzed homogeneous oxidative homo-/cross-coupling reactions**

**Symposium 21 – HETEROGENEOUS CATALYSIS II, continued – Room B (gr. HS)**

- Session Chair:** Gabriel Veith
- 11:00 Jason McPherson  
**The commercial application of supported gold catalysts for CO oxidation in mainstream cigarette smoke**
- 11:25 Pankaj Dhingra  
**Commercializing NS Gold™, a gold containing automotive catalyst**
- 11:50 Caixia Qi  
**Improvement in long-term durability of gold catalysts for CO removal in ambient air and reformat gases**
- 12:15 Robert Güttel  
**Ex-post size control of hollow sphere encapsulated Au nanoparticles - catalysts for the investigation of the activity in CO oxidation**

**Symposium 22 – OPTICAL PROPERTIES OF GOLD NANOPARTICLES (II) – Room C (HS Ost)**

- Session Chair:** Michael Cortie
- 10:55 **Keynote 11:** Brahim Lounis, Université Bordeaux, France  
**Optical detection of individual gold nanoparticles**
- 11:25 Michael Natan  
**Detection using Au nanoparticle surface enhanced Raman scattering**
- 11:50 Jang-Sik Lee  
**Non-volatile flash memory devices based on the self-assembled gold nanoparticles**
- 12:15 Michael Wilson  
**Enhancement of the effectiveness of light-activated antimicrobial agents by gold nanoparticles**

**Symposium 23 – SYNTHESIS AND APPLICATIONS – Room D (kl. HS)**

- Session Chair:** Vincent Catalano
- 11:00 John P. Fackler, Jr.  
**Novel mixed coordination of gold to N- and C-donor ligands: A gold cubane is assembled**
- 11:25 Helen Goitia  
**Gold compounds with ferrocene and thiophene conjugates of 2-thiocytosine. Studies of antitumour activity**
- 11:50 Michael Katz  
**Vapoluminescent [Au(CN)<sub>2</sub>]-based ammonia sensors**
- 12:15 Maria Agostina Cinellu  
**Gold(III) N<sup>+</sup>C<sup>-</sup>N pincer complexes: synthesis and reactivity**

**Symposium 24 – SYNTHESIS AND PROPERTIES OF GOLD NANOPARTICLES (II) – Room E (HS Geo)**

- Session Chair:** Lynda Si-Ahmed
- 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 nucleation and growth process of gold nanoparticles**

*Lunch from 12:40 to 14:20*

**Tuesday, 28<sup>th</sup> July – Afternoon Sessions**

**Symposium 25 – HOMOGENEOUS CATALYSIS, continued – Room A (HS West)**

- Session Chair:** A. Stephen K. Hashmi
- 14:25 Rai-Shung Liu  
**Gold-catalyzed 1,3-addition of sp<sup>3</sup>-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

**Gold-catalyzed strategies for swapping C-OH bonds for C-C and C-N bonds**

**Symposium 26 – HETEROGENEOUS CATALYSIS II: HYDROGENATION – Room B (gr. HS)**

- Session Chair:** Bert D. Chandler
- 14:25 Laurent Delannoy  
**Pd-promoted selective gas phase hydrogenation of p-chloronitrobenzene over alumina supported Au**
- 14:50 Catherine Louis  
**Selective gas phase hydrogenation of butadiene over Pd-promoted alumina supported Au catalysts**
- 15:15 Veronique Pitchon  
**Influence of the support on the mechanism of acetylene hydrogenation on gold catalysts**

**Symposium 27 – APPLICATIONS OF GOLD NANOPARTICLES (II) – Room C (HS Ost)**

- Session Chair:** Paul Mulvaney
- 14:20 **Keynote 12:** Ulrich Heiz, Technische Universität München, Germany  
**Catalysis of nanoscale gold**
- 14:50 Richard Palmer  
**Gold nanocluster deposition: from atomic structure to applications**
- 15:15 Ulf Prüße  
**Oxidation of carbohydrates – From lab to industry**

**Symposium 28 – NOVEL STRUCTURES AND BIOMEDICAL APPLICATIONS – Room D (kl. HS)**

- Session Chair:** Hubert Schmidbaur
- 14:20 **Keynote 13:** Luigi Messori, University of Florence, Italy  
**Gold compounds as anticancer agents**
- 14:50 Telisha Traut  
**Evaluation of Gold(I) P,N heteroditopic complexes as antiviral agents**
- 15:15 Thomas Fässler  
**[Au<sub>3</sub>Ge<sub>18</sub>]<sup>5-</sup> and [Au<sub>3</sub>Ge<sub>45</sub>]<sup>9-</sup>: Synthesis and structure of two extraordinary intermetallic cluster ions**

**Symposium 29 – NEW MELT & SOLIDIFICATION PROCESSING TECHNOLOGIES – Room E (HS Geo)**

- Session Chair:** Ulrich Klotz
- 14:25 Phil Dickens  
**Selective laser melting (SLM) of 24 carat gold (Au)**
- 14:50 Jörg Fischer-Bühner  
**Microgranulation of gold and gold alloys**
- 15:15 Filipe Silva  
**On the use of a controlled solidification process to obtain functionally graded materials**

*Coffee Break from 16:05 to 16:30*

**Poster Session 2 from 16:30 to 18:30**

**Wednesday, 29<sup>th</sup>  
July**

- 8:25 **Plenary 6 – Room B (gr. HS)**  
Chair: Jim Johnston  
**Paul Mulvaney**, University of Melbourne, Australia  
**Gold nanocrystals - From plasmonics to catalysis**
- 11:55 **Plenary 7 – Room B (gr. HS)**  
Chair: A. Stephen K. Hashmi  
**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

**Symposium 30 – HETEROGENEOUS CATALYSIS I, continued – Room A (HS West)**

- Session Chair:** Henrique Teles
- 09:10 James Lulizi Aluha  
**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 Laura Prati

### Gold catalysts operating under acidic conditions

#### Symposium 31 – HETEROGENEOUS CATALYSIS II, continued – Room B (gr. HS)

- 09:10 **Session Chair:** Michael Schelper  
Gabriel Veith  
**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  
**Linoleic acid isomerization over gold catalysts**

#### Symposium 32 – NANOGOLD COMPOSITE MATERIALS (I) – Room C (HS Ost)

- 09:10 **Session Chair:** Michael Cortie or Jim Johnston  
Kurt Geckeler  
**Gold nanocomposites: Novel design and challenges**
- 09:35 José M. Pingarrón  
**Gold nanoparticles-structured electrochemical biosensors for applications in the food industry**
- 10:00 Antad Vivek Vishwanath  
**In-situ and real time optical spectroscopy to study Au or Ag nanoparticles growth and their capping by a Si<sub>3</sub>N<sub>4</sub> matrix**

#### Symposium 33 – SYNTHESIS AND PROPERTIES – Room D (kl. HS)

- 09:10 **Session Chair:** Pekka Pyykkö  
Daniel Leznoff  
**Highly birefringent cyanoaurate-based coordination polymers**
- 09:35 Vince Catalano  
**Multimetallic Gold(I) N-heterocyclic carbene complexes**
- 10:00 Christoph Strasser  
**Synthesis of novel gold rNHC, aNHC and Fischer-type carbene complexes**

*Coffee Break from 10:25 to 10:55*

*Late Morning Sessions on Wednesday*

#### Symposium 34 – HETEROGENEOUS CATALYSIS I: GOLD/PALLADIUM CATALYSTS – Room A (HS West)

- 11:00 **Session Chair:** Larry Brey  
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 – a more realistic view using aberration corrected analytical electron microscopy**

#### Symposium 35 – HETEROGENEOUS CATALYSIS II: CERIUM SUPPORTS - Room B (gr. HS)

- 11:00 **Session Chair:** Ulf Prütze  
Shamil Shaikhutdinov  
**Interaction of gold with cerium oxide supports: CeO<sub>2</sub>(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**

#### Symposium 36 – NANOGOLD COMPOSITE MATERIALS (II) – Room C (HS Ost)

- 11:00 **Session Chair:** Jim Johnston  
Vladimir Zaporozhchenko  
**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**

#### Symposium 37 – APPLICATION OF ELECTROCHEMICAL AND LITHOGRAPHIC TECHNIQUES – Room D (kl. HS)

- 11:00 **Session Chair:** Andreas Zielonka  
Alexander Pfund  
**Micro-structured fuel cells using a combination of lithographic and electrochemical processes (preliminary feasibility study)**
- 11:25 Shin Horiuchi  
**Novel cyanide-free Au electroless plating with high adhesion to plastic films**

**12:30 Wind up Session & Prizes – Room B (gt. HS)**

**End of Conference**