

# Nanoparticles 2008: Synthesis, Properties and Applications of Nanoparticles

Tuesday 5 February 2008  
The National Media Museum, Bradford, UK

- 09.00 Registration and Coffee**
- 09.20 Session 1 and Conference Welcome**  
Chair Professor Simon Biggs, University of Leeds, UK
- 09.25 Nanofluids and Nano-Composites**  
INVITED SPEAKER, Professor Yulong Ding, University of Leeds, UK
- 10.05 Distributed All-Dielectric Bragg Reflectors Based on a Tuneable Refractive Index Titania Nanocomposite**  
Manuela Russo, Queen Mary University of London, UK
- 10.25 Shape Variant Nanoparticles as Biological Probes**  
Dr Diane Ung, University of Liverpool, UK
- 10.45 Nanoengineered Multifunctional Polymer-Based Capsules: Microreactors for (Bio)-Chemical Reactions, Sensing and Delivery Systems**  
Professor Gleb Sukhorukov, Queen Mary University of London, UK
- 11.20 Refreshments**
- 11.40 Peptide-Capped Gold Nanoparticles**  
Dr Raphaël Lévy, University of Liverpool, UK
- 12.15 Nanoparticle Design for Therapeutic Applications**  
Dr Maya Thanou, Imperial College London, UK
- 12.50 EPR Study of Halogen and Hydrogen Abstraction Reactions by Phosphine Protected Gold Nanoparticles**  
Marco Conte, University of York, UK
- 13:10 Lunch and Posters**
- 14.00 Session 2**  
Chair Professor Mathias Brust
- 14.05 Photoelectrochemical Properties of Semiconductor Nanoparticle Electrodes**  
INVITED SPEAKER, Dr Upul Wijayantha, Loughborough University, UK
- 14.45 Supported Gold Nanoclusters; Synthesis, Characterization and Catalytic Properties**  
John Kilmartin, University College London, UK
- 15.05 Monitoring the Formation of Core-Shell Magnetic Nanoparticles: the Case of Co Particles Inside Carbon Shells**  
Dr Yannis Alexandrou, University Liverpool, UK
- 15:40 Refreshments**
- 16.00 Single Molecule Detection with Metal Nanoparticles: Towards Resolving Dynamic Fluctuations of Macromolecular Complexes**  
Dr Laurence Duchesne, University of Liverpool, UK
- 16.20 Using Nanoparticles to Improve the Quality of Life**  
Dr Robert Tshikhudo, Mintek, South Africa
- 16.40 Synthesis and Photophysical Properties of Small Monodisperse Polymer Stabilised Water Soluble Gold Nanoparticles**  
Nicolas Schaeffer, University of Liverpool, UK
- 17.00 Poster Prize Announcements and Close of Conference**
- 17:10 Optional Lab Tour**