



PROGRAMME - DAY 1 & 2

Wednesday 02 September

17:00 Registration, wine reception sponsored by LINSET and posters

Welcome - Prof Andrew Cossins, LINSET, UK

19:00 Free time

Thursday 03 September

08:30 Registration and refreshments 09:00 Welcome and opening remarks Prof John Saunders, University of Liverpool Deputy Vice-Chancellor **CHAIR** - Dr Nguyen TK Thanh, The Davy-Faraday Research Laboratory 09:10 World's thinnest nanowires (Invited Talk O 1) Prof Geoffrey A Ozin, University of Toronto, Canada 09:40 Comparative studies on the binding, stabilization and delivery of macromolecular DNA and RNA attached to gold, manganese and zinc nanoparticles (O 2) Dr Robert DeLong, Missouri State University, USA 10:05 Determination of the surface area of suspensions of active pharmaceutical ingredients using NMR (O 3) Dr David Fairhurst, Xigo Nanotools LLC, USA 10:30 Characterization of magnetic nanoparticles using quadrupole magnetic fieldflow fractionation (O 4) Dr P. Stephen Williams, Lerner Research Institute, Cleveland Clinic, USA 10:55 Refreshments and posters 11:25 Healthcare biomagnetics: in vivo sensing, moving and heating of magnetic nanoparticles for diagnosis and therapy (Invited Talk O 5) Prof Quentin Pankhurst, Royal Institution of Great Britain, UK 11:55 Hybrid La_{1-x}Sr_xMnO₃ nanoparticles for magnetic fluid hyperthermia

Dr Emil Pollert, Institute of Physics, Academy of Sciences of the Czech Republic

hyperthermia and MR imaging (O 6)





PROGRAMME - DAY 2 contd.

Thursday 03 September

12:20	Size and surface effects in the magnetic properties of maghemite and magnetite nanoparticles (O 7) Dr Daniel Ortega, University of Cadiz, Spain
12:40	High concentration zeta potential measurements using light scattering techniques (O 8) Dr Michael Kaszuba, Malvern Instruments Ltd, UK
13:00	Lunch and posters
CHAIR - Dr Ja	wwad A Darr, University College of London, UK
14:00	Introduction to afternoon session
14:05	From foams to dry water: Phase inversion of nanoparticle-stabilised materials (Invited Talk O 9) Prof Bernie P Binks, University of Hull, UK
14:35	Structural modification and self-assembly of nanoscale magnetite synthesised in the presence of an anionic surfactant (O 10) Dr Sharali Malik, Karlsruhe Institute of Technology, Germany
14:55	Gas storage in silica nanoparticle-stabilised clathrate hydrates (O 11) Dr Ben Carter, University of Liverpool, UK
15:15	Synthesis, characterisation of magnetic nanoparticles for bioapplications (O 12) Le T Lu, University of Liverpool, UK
15:35	Refreshments and posters
16:05	Continuous hydrothermal flow synthesis of materials for UV attenuation and photocatalysis (O 13) Josie Goodall, University College of London, UK
16:25	Synthesis and characterisation of TiO ₂ (anatase) nanoparticles grafted with dopamine-PEG derivatives (O 14) Dr Francesco Cellessi, University of Manchester, UK
16:45	Plenary: Soft processing for ceramics: single-step fabrication of nano-structured oxide ceramics (particles, films, integrated layers and patterns) from solution without firing (Invited Talk O 15) Prof Masahiro Yoshimura, Institute of Technology Yokohama, Japan
17:20	Parliament's understanding of science (Invited Talk O 16) Andrew Miller MP, UK
17:40	Wine reception and posters
19:00	Conference gala dinner at Eureka restaurant (pre-booked tickets required)





PROGRAMME DAY 3

Friday 04 September

08:30	Registration and refreshments	
CHAIR - Prof David Schiffrin, University of Liverpool, UK		
09:00	Printable photovoltaics using colloidal quantum dots (Invited Talk O 17) Prof Shinya Maenosono, Japan Advanced Institute of Science and Technology, Japan	
09:30	Synthesis and characterization of semiconductor nanoparticle-carbon- nanotube composites in terms of their application in hybrid solar cells (O 18) Alina Chanaewa, University of Hamburg, Germany	
09:50	Nanoshells for surface enhanced Raman spectroscopy in eucaryotic cells: cellular response and sensor development (O 19) Dr Colin Campbell , University of Edinburgh, UK	
10:15	Characterization of proteins adsorbed on AuNPs in different cell culture media: the role of protein corona in the cellular response (O 20) Gabriele Maiorano, Italian Institute of Technology, Italy	
10:35	Refreshments and posters	
11:05	Using novel approaches to nanoparticles and their assemblies (<i>Invited Talk O 21</i>) Prof Paul O'Brien, University of Manchester, UK	
11:35	The biological implications of radiation induced photoelectron production, as a function of particle size and composition (O 22) Prof C. Vyvyan Howard, University of Ulster, Northern Ireland	
12:00	The suitability of commercial nanoparticles for magnetic hyperthermia therapy (O 23) Dr Paul Southern, University College of London, UK	
12:20	Fabrication of photo-induced patterned conducting polymer films containing gold nanoparticles (O 24) Sung Huh, Pohang University of Science and Technology, South Korea	
12:40	Stimulus-Responsive Liquid Marbles (O 25) Dr Damien Dupin, University of Sheffield, UK	
13:00	Lunch and posters	
CHAIR - Prof	CHAIR - Prof Simon Biggs, University of Leeds, UK	

14:00 The health hazards of accidental exposure to nanoparticles (*Invited Talk O 26*) Prof Ken Donaldson, University of Edinburgh, UK





PROGRAMME - DAY 3 contd.

Friday 04 September

14:30	Gold nanoparticles, peptides and cells: the dynamic picture (O 27) Dr Raphael Levy, Liverpool Institute for Nanoscale Science, University of Liverpool, UK
14:55	Responsive block copolymer micelles within multilayer films for use as nano- delivery systems (O 28) Dr Olivier Cayre, University of Leeds , UK
15:15	Synthesis and assembly of inorganic nanostructures at the oil-water interface (O 29) Dr John Thomas, University of Manchester, UK
15:35	Refreshments and posters
16:05	Getting light and electrons across functionalised metal nanoparticles (Invited Talk O 30) Prof David Schiffrin, University of Liverpool, UK
16:35	Gold nanorods for applications in biological imaging (O 31) Dr Yu Chen, Strathclyde University, UK
17:00	Digital Biomagnetism (O 32) Joshaniel Cooper, University of Cambridge, UK
17:20	Closing remarks and announcement of prize winners
17:30	Lab tours CMD or School of Biological Sciences (Optional)
18:15	Conference close

ORGANISING COMMITTEE

Dr Nguyen TK Thanh, Reader, The Davy-Faraday Research Laboratory, UK
Dr Jawwad A Darr, Reader, University College of London, UK
Prof Simon Biggs, University of Leeds, UK
Mr Peter Reineck, Peter Reineck Associates Ltd, UK