

Programme

Friday 31st August 2012

14:00	Registration
17:40	Opening Ceremony
	James Milne, Managing Director, RSC Publishing
	Professor Lesley Yellowlees, RSC President
17:55	Nanoscale sponsored session Session Chair Philip Earis, Managing Editor - <i>Nanoscale</i>
18:00	Plenary 1: Andrea Ferrari, <i>Sponsored by Nanoscale</i> Title TBC <i>University of Cambridge, Cambridge</i>
18:45	Welcome Reception

Saturday 1st September 2012

08:00	Registration
08.55	Session 1 – Nanocatalysis and Functional Nanomaterials Session Chair Professor Shi-Gang Sun
09:00	Plenary 2: C. N. R. Rao Graphene, graphene mimics and some of their fascinating properties <i>CSIR Centre for Excellence in Chemistry, India</i>
09:45	Contributed 1: Hua Zhang Preparation and applications of two-dimensional nanosheets and their composites <i>Nanyang Technological University, Singapore</i>
10:05	Plenary 3: Xinhe Bao Title: TBC <i>Dalian Institute of Chemical Physics, China</i>
10:50	Coffee
11:20	Contributed 2: Charl F. J. Faul Addressing function, complexity and hierarchy in soft nanostructured materials - a challenging reality? <i>University of Bristol, UK</i>
11:40	Plenary 4: Xiaogang Liu, <i>Chem Soc Rev Emerging Investigator Lectureship</i> Title: TBC <i>National University of Singapore, Singapore</i>

12:25	Lunch
	Session 2 – Directed assembly of nanomaterials including lithography and patterning Session Chair Xiaogang Liu
14:00	Plenary 5: Shana O. Kelley Nanostructure-enabled electrochemical diagnostic devices <i>University of Toronto, Canada</i>
14:45	Contributed 3: G. B. Xu Shape-controlled synthesis and electrochemiluminescence applications of single-crystalline metal nanocrystals <i>Changchun Institute of Applied Chemistry, China</i>
15:05	Contributed 4: Paula Mendes Smart nanostructured surfaces as powerful tools for biomedical applications <i>Birmingham University, UK</i>
15:25	Plenary 6: Neil Champness Molecular Organisation on Surfaces <i>University of Nottingham, UK</i>
16.05	Coffee
	Session 3 - Nanoplasmonics and nanospectroscopy Session Chair Hubert Girault
16:30	Plenary 7: Bin Ren From single nanoparticle spectroscopy and microscopy to tip-enhanced Raman spectroscopy <i>Xiamen University, China</i>
17:15	Honorary Fellowship presentation Professor Lesley Yellowlees, RSC President
17:25	Plenary 8: Fraser Stoddart, <i>RSC Honorary Fellowship Lectureship</i> Molecular Switches on Surfaces and in Devices <i>Northwestern University, USA</i>
18:25	Poster session 1
20:00	Close

Sunday 2nd September 2012

	Session 3 – Nanoplasmonics and nanospectroscopy continued Session Chair Hubert Girault
09:00	Plenary 9: Richard P Van Duyne Challenges in Nanoscience <i>Northwestern University, USA</i>
09:45	Plenary 10: Duncan Graham Biosensing using SERS and Functionalised Nanoparticles <i>University of Strathclyde, UK</i>

10:30	Coffee
11:00	Plenary 11: Francesco Stellacci Title: TBC <i>EPFL, Switzerland</i>
11:45	Contributed 5: Hai-nan Xie Tracking bisphosphonates for metastatic breast cancer treatment using surface enhanced spatially offset Raman spectroscopy <i>University of Strathclyde, UK</i>
12:05	Lunch
	Session 4 – Nanocatalysis and Functional Nanomaterials Part 2 Session Chair Markus Niederberger
13:30	Plenary 12: Nanfeng Zheng Control of surface and interfacial structure of Noble metal nanocrystals <i>Xiamen University, China</i>
14:15	Contributed 6: Tony Harriman Nanomechanical properties of molecular-scale bridges as visualized by intramolecular electronic energy transfer <i>Newcastle University, UK</i>
14:35	Contributed 7: Zhiyong Tang Fabrication of inorganic nanoparticle superstructures: A fundamental understanding <i>National Centre for Nanoscience and Technology, China</i>
14:55	Contributed 8: Na Tian Pt group metal electrocatalysts with high-index facets <i>Xiamen University, China</i>
15:15	Coffee
15:40	Contributed 9: Markus Niederberger Inorganic Materials Synthesis in Organic Solvents <i>Department of Materials, ETH Zurich</i>
16:10	Contributed 10: Ye Wang Size effects in Au nanoparticle-catalyzed alcohol dehydrogenation <i>Xiamen University, China</i>
	Session 5 - Nanomachines to Nanodevices Session Chair Duncan Graham
16:30	Plenary 13: Itamar Willner Nanobiotechnology with biomolecule/nanoparticle hybrids and biomolecular machines <i>The Hebrew University of Jerusalem, Israel</i>
17:15	Plenary 14: Anne-Sophie Duwez Probing forces, motions, and function in single molecules <i>University of Liège, Belgium</i>

18:00	Poster session

Monday 3rd September 2012

	Session 6 – Bionanotechnology from Nanomedicine to Bioinspired Nanomaterials Session Chair Paula Mendes
09:00	Plenary 15: Kanjiro Miyata Title: TBC <i>University of Tokyo, Japan</i>
09:45	Contributed 11: Lintao Cai Molecular probes design for biomedical sensing and multimodality imaging <i>Shenzhen Institutes of Advanced Technology, China</i>
10:05	Contributed 12: Chunhai Fan Emerging DNA nanotechnology for biosensing and therapeutic applications <i>Chinese Academy of Applied Physics, CAS, China</i>
10:25	Coffee
10:55	Plenary 16: Jinwoo Cheon Magnetic nanoparticles for imaging and therapeutics <i>Yonsei University, Korea</i>
11:40	Contributed 13: Dejian Zhou Development of smart nanoparticle biosensors <i>University of Leeds, UK</i>
12:00	Plenary 17: Lei Jiang Bio-Inspired, Smart, Multiscale Interfacial Materials: <i>Institute of Chemistry, CAS, China</i>
12:45	Closing Remarks Professor Shi-Gang Sun, <i>Conference Chair</i>
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