

# Programme

Monday 9 November

Time		Activity
Start	End	
12:45	13:30	Lunch

Time		Plenary Session Prof Max Lu
Start	End	
13:45	14:00	Opening and Welcome - Prof Max Lu
14:00	14:30	Prof Mihail Roco - <i>Global development and governance of nanotechnology</i>
14:30	15:00	Prof John White - <i>Useful macroscopic properties from nanoscale structures</i>
15:00	15:30	Prof Annabella Selloni - <i>Structure, defects and water adsorption on anatase TiO<sub>2</sub></i>
<b>15:30</b>	<b>15:45</b>	<b>Coffee Break</b>
15:45	16:15	Prof Michio Inagaki - <i>Template method for the preparation of nanocarbons</i>
16:15	16:45	Prof Wonyong Choi - <i>Visible light photocatalysis through charge transfer complexes on titania nanoparticles</i>

		<b>Free Time</b>
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Time		Poster Presentations
Start	End	
18:15		Poster presentations
19:15		Poster presentations and pre-dinner drinks

Time		Dinner
Start	End	
20:15		BBQ Dinner

## Tuesday 10 November

### Parallel sessions

Time		Clean Energy (I) Prof Ian Gentle	Environmental Technologies Prof Justin Gooding
Start	End		
9:15	9:45	Prof Serge Kaliaguine (invited speaker) <i>A new approach to the synthesis of Ti-SBA-15 epoxidation catalysts</i>	Prof Huijun Zhao (invited speaker) <i>Photoactive nanotubular TiO<sub>2</sub> membranes for biohazards removal</i>
9:45	10:00	Dr Roland Marschall <i>Novel visible-light photocatalysts for hydrogen production via efficient photo-induced water splitting process</i>	Mr Leo Ming Hei Lei <i>Electrochemical study of nanostructured electrodes produced with nanoparticle aggregation</i>
10:00	10:15	A/Prof Shaomin Liu <i>Homogeneity evaluation of ZSM-5 zeolite membrane</i>	Ms Chalida Klaysom <i>Composite ion-exchange membranes for desalination by electrodialysis</i>
10:15	10:30	Dr Dawei Wang <i>Multi-scale assembly of carbon electrodes for supercapacitors</i>	Prof Freddy Kleitz <i>Functional mesoporous polymer-silica nanocomposites: Synthesis, characterisation and applications</i>
10:30		<b>Coffee Break</b>	

### Parallel sessions

Time		Clean Energy I Prof Ian Gentle	Health Care Dr Chris Marquis
Start	End		
11:15	11:30	Prof Parasuraman Selvam (invited speaker) <i>Nanoporous carbons and their applications in catalysis</i>	Ms Hilda Wiogo <i>Protein stabilisation of magnetite nanoparticles</i>
11:30	11:45		Ms Rolslyn Tedja <i>The effect of particle size distribution on assessed biological impacts of titanium dioxide nanoparticles in human lung cell lines</i>
11:45	12:00	Dr Yun Hau Ng <i>Assembly of titanium(IV) oxide nanoparticles on graphene sheets for photoelectrochemical solar cells and photocatalytic degradation of organic compound</i>	Dr Jian Liu <i>A facile vesicle template route to multi-shelled mesoporous silica hollow nanospheres</i>
12:00	12:15	Mr Aniruddh Mukherji <i>Preparation and photochemical properties of visible light active CsTaWO<sub>6-x</sub>N<sub>x</sub> photocatalyst</i>	Dr Hong Zhang <i>Computer simulation of siRNA intercalation into layered double hydroxide</i>

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## Tuesday 10 November 2009

### Parallel sessions

Time		Fundamental Synthesis Techniques Prof Ian Ying Chen	No parallel session
Start	End		
13:45	14:15	Prof Xungai Wang (invited speaker) Recent advances in electrospinning of nanofibres	
14:15	14:30	Mr Phillip Newman <i>A systematic study on the role of acetylferrocene on CNTs synthesised via Chemical Vapour Deposition</i>	
14:30	14:45	Ms Mega Ng <i>Low temperature synthesis of titanium dioxide coatings on PVDF membrane</i>	
14:45	15:00	Mr Ian Goon <i>Gold-coated magnetic nanoparticles as 'electrodes without wires' for improved electrochemical sensor platforms</i>	
15:00	15:15	Dr Xuchuan Jiang <i>Self-Assembly of particles: Emerging phenomena, structures and forces</i>	

Time		Coffee Break
Start	End	
15:15	15:45	

Time		Fundamental Synthesis Techniques Prof Ian Ying Chen	Student Development Session
Start	End		
15:45	16:15	Dr Karsten Wegner (invited speaker) <i>Flame spray synthesis of nanoparticles and nanostructured coatings</i>	Prof Terry Turney (invited speaker) <i>Hooked on nanomaterials? – Eight things that inspire me</i>
16:15	16:30	Dr Jane Dai <i>Plasma enhanced CVD for functional nanostructured materials</i>	A/Prof Mikel Duke (invited speaker) <i>Getting started on your research career – tips on what to do after a PhD</i>
16:30	16:45	Dr Zhen Li <i>Manganese doped cadmium selenide nanowires</i>	
16:45	17:00	Dr Cordelia Selomulya (invited speaker) <i>Functional magnetic nanocomposites for EMI shielding</i>	Dr Peter Gray (invited speaker) <i>Sustainable personal development in a high-tech industry (until 17:15)</i>

Time		Conference Dinner
Start	End	
19:15	19:30	Pre-dinner drinks
19:30	21:00	Conference dinner, awards, after dinner speaker

## Wednesday 11 November 2009

Time		Clean Energy II Dr Jason Scott	Computational Nanoscience Prof Sean Smith
Start	End		
8:45	9:15	Prof Leone Spiccia (invited speaker) <i>Solar water oxidation by a bioinspired molecular catalyst</i>	Dr Aijun Du <i>Low dimensional C/BN nanotube/nanoribbon for nanoelectronics: computational prediction of structure, magnetism and half-metallicity</i>
9:15	9:30	Mr Mitchell Nancarrow <i>Nanoparticles of transition metals as cracking catalysts for long chain hydrocarbons</i>	Dr Wen Xu <i>MD simulation of the structure and mechanical properties of clay-based polymer nanocomposites</i>
9:30	9:45	Mr Bayram Kilic <i>Growth of ZnO nanostructures and their optical properties</i>	Mr Defang Ouyang <i>Structure, dynamics and energetics of sima-cationic vector complexation: a molecular dynamics study</i>
9:45	10:00	Mr Yung Kent Kho <i>Polymorphic design of TiO<sub>2</sub> nanoparticles by flame engineering: Implications to light-induced processes</i>	Dr Chenghua Sun <i>Adsorption of gold clusters over the anatase (001) surface</i>
10:00	10:15	Dr Leonito Il Garciano <i>Electrochemical effects during formation of raney cobalt and copper catalysts and their uses for biofuel production from micro-algae</i>	Mr Jeffrey Yue <i>Experimental and theoretical study of defect-driven metal deposition on iron oxyhydroxide surfaces</i>
10:15	10:30	Dr Adriyan Milev <i>Unoccupied electronic <math>\pi^*</math> states in nano-sized graphite</i>	Mr Kenneth Wong <i>Nanoscale interfaces</i>
10:30	10:45	Mr Thomas Leoni <i>Investigation of skeletal iron</i>	

Time		Coffee Break
Start	End	
10:45	11:00	

Time		Industry Session Dr Fouad Haghseresht	<i>no parallel session</i>
Start	End		
11:00	11:30	Dr Paul McCormick (invited speaker) <i>How to make big particles transparent and profitable</i>	
11:30	12:00	Mr Leo Hyde (invited speaker)	
12:00	12:30	Mr Gavan Harrop (invited speaker) <i>Application of nanotechnology in the glass industry: coated glass – the novelty</i>	
12:30	12:45	<b>Prof Rose Amal - Close of Conference and Student Award Presentations</b>	

Time		Lunch
Start	End	
12:45	13:30	

End of Conference