

Day 1 - Monday, 14 January 2013

Time	Exploration	Breakthrough	Creation	Discovery
Theatre IC	Naomi Soh Andrew Ngoh	Xu Weijie Yang Weifeng	Vivian Chan Qi Dongchen	Benedict Woo Aneesa
0830 - 0900	<b>REGISTRATION</b>			
0900 - 0915	Welcome Address by Prof Andy Hor			
0915 - 0930	<b>PLENARY</b>			
0930 - 0945	Vivian Yam			
0945 - 1000	Photofunctional Materials - From Design to Assembly and Functions Session Chair: Prof Andy Hor			
1000 - 1015				
1015 - 1030	<b>TEA BREAK (sponsored by ITS Science and Medical)</b>			
1030 - 1045	<b>and Poster Judging Session</b>			
1045 - 1100	<b>KEYNOTE</b> Erik Reimhult Bioinspired Assembly of Superparamagnetic Nanoparticle Membranes Session Chair: Karthik Kumar		<b>KEYNOTE</b> Karen Kavanagh Probing The Stability of Gold-Silicon Contacts Session Chair: Cedric Troadec	
1100 - 1115				
1115 - 1130				
<b>Session Chair</b>	<b>Su Xiaodi</b>	<b>Hao Jianhua</b>	<b>Cedric Troadec</b>	<b>Liu Ye</b>
1130 - 1145	S-MAST-0182 Jeffrey C. Bamber Medical Ultrasound Trends and Transducer Requirements	S-LLN-0137 Hao Jianhua Multifunctional Properties of Metal-Ion-Doped Luminescence Materials with Nanoscale and Thin-Film Structures	S-IED-0196 Johnson Goh Electronic Transport at Material Interfaces	S-SMCHC-0189 Tom Davis Functional, Star Polymeric Molecular Carriers, Built From Biodegradable Microgel/Nanogel Cores For Drug Delivery And Magnetic Resonance Imaging
1145 - 1200				
1200 - 1215	O-MAST-0006 New Siu Yee Gold Nanorods and Nanoparticles Derived Bioassays for Transcription Factors (AP-2 <sup>β</sup> and FOXA1)-DNA Binding Detection	S-LLN-0134 Su Liap Tat Photon Upconversion In Heteronanostructured Photoanodes For Near-Infrared Light Harvesting	S-IED-0199 Srinivasan MP Surface Modification by Molecular Assembly in Supercritical Media	O-SMCHC-0009 Phua Kyle Using Synthetic and Natural Materials to Deliver Messenger RNA and Confer Cancer Immunity
1215 - 1230	O-MAST-0015 Liu Hongfei Fabrication of GaN Nanobelts and Their Transport Properties Induced by Piezotronic Effect			O-SMCHC-0028 Cheng Jinting Synthetic Biomimetic Membranes for Immunological Applications
1230 - 1245			S-MAST-0055 Curt Wentrup 3rd Molecular Materials Research Front in the Australian Journal of Chemistry	O-SMCHC-0131 Loh Xianjun Thermogelling Polymers - The relevance to Personal Care
1245 - 1300	<b>LUNCH and Poster Judging Session</b>			
1300 - 1315				
1315 - 1330				
1330 - 1345				
Theatre IC	Naomi Soh Wu Shixin	Xu Weijie Liu Lei	Vivian Chan Dwayne	Benedict Woo Pan Xiaoyong
1345 - 1400	<b>PLENARY</b>			
1400 - 1415	David Cahen			
1415 - 1430	The Power Of Molecules; Molecule-Controlled Electronics			
1430 - 1445				
1445 - 1500	<b>KEYNOTE</b> Wiendelt Steenbergen Light and Sound for Tissue Imaging and Therapy Monitoring: Detection Challenges Session Chair: Zhang Xinhai		<b>KEYNOTE</b> Paul Burn Fluorescent Sensors for Detecting Explosives Session Chair: Li Xu	
1500 - 1515				
1515 - 1530				
1530 - 1545	<b>TEA BREAK and Poster Judging Session</b>			
1545 - 1600				
<b>Session Chair</b>	<b>Yao Kui</b>	<b>Liu Hong</b>	<b>Masamichi Ogasawara</b>	<b>Loh Xian Jun</b>
1600 - 1615	S-MAST-0180 Yang Yang Li Functional Nanomaterials Enabled by Convenient Electrochemical Methods for Sensing and Other Applications	S-EECST-0149 Chen Xiaodong Bio-Inspired Architected Nanomaterials for Energy Conversion	S-NCCS-0051 F. Ekkehardt Hahn Coordination Chemistry with Poly-NHC Ligands	S-SMCHC-0179 Ganapathy Ayyappa Molecular Simulations of the Melting and Mechanical Properties of Polymer Grafted BSayer Membranes
1615 - 1630				
1630 - 1645	S-MAST-0172 Liu Bin Fluorescence Bioimaging with Conjugated Polyelectrolytes	S-EECST-0070 Page Kirt Interfacial Structure, Dynamics, And Transport In Polyelectrolyte Membrane Materials For Fuel Cells	S-NCCS-0080 Hou Xue Long Some Advances in PD-Catalyzed Asymmetric Allylic Alkylation with "Hard" Carbanions	S-SMCHC-0061 Sung Hsing-Wen Absorption Enhancement and Protease Inhibition by Functional Nanoparticles for Oral Protein Delivery
1645 - 1700				
1700 - 1715	S-MAST-0147 Su Xiaodi Uncover Sequences Rules of Transcription Factors (ER, FoxA1, and AP2γ)-DNA Interactions Using SPR, DPI, Metal Nanoparticles, and a Motif Discovery Algorithm	O-EECST-0027 Malyi Oleksandr First-Principles Study of Behaviours of Metal Atoms In Si-based Materials	O-NCCS-0019 Tan Teck Leong First Principles Prediction of Stable Bimetallic Nanoparticle Configurations and Their Use as Tunable Catalysts	O-SMCHC-0046 Kakran Mitali Functionalized Graphene Oxide for Drug Delivery Application
1715 - 1730		O-EECST-0060 Rouhani Mehdi Evidence For Molybdenum Vi Formation Being Involved In Photo-Coloration Of Molybdenum Oxide Films	O-NCCS-0041 Jan J. Weigand P-N/P-P Metathesis Reaction for the Preparation of Polyphosphanes	O-SMCHC-0064 Sarkar Aatreyee Antibacterial Activity of Silver Nanoparticles and Graphene Oxide Nanocomposite
1730 - 1745	<b>Welcome Reception</b>			
1745 - 1800				
1800 - 1815				
1815 - 1830				
1830 - 1845				
1845 - 1900				

Day 2 - Tuesday, 15 January 2013

Time	Exploration	Breakthrough	Creation	Discovery
Theatre IC	Naomi Soh Andrew Ngoh	Xu Weijie Dwayne	Vivian Chan Wu Shixin	Benedict Woo Pan Xiaoyong
0900 - 0915	<b>PLENARY</b> Zeng Hua Chun Synthesis and Integration of Nanocatalysts Session Chair: Han Mingyong			
0915 - 0930				
0930 - 0945				
0945 - 1000				
1000 - 1015	<b>KEYNOTE</b> Takaaki Tsurumi Recent Progress of Piezoelectric Theory and Sensor/Actuator Applications in Japan Session Chair: Yao Kui		<b>KEYNOTE</b> To be confirmed Please refer to notice board	
1015 - 1030				
1030 - 1045				
1045 - 1100				
1100 - 1115	<b>TEA BREAK and Poster Judging Session</b>			
<b>Session Chair</b>	<b>Zhang Xinhai</b>	<b>Zong Yun</b>	<b>Hou Xue Long</b>	<b>Maria Antipina</b>
1115 - 1130	S-MAST-0122 Voeroes Janos	S-EECST-0035 Liu Hong	S-NCCS-0119 Masamichi Ogasawara	S-SMCHC-0018 Matsuoka Nobuaki
1130 - 1145	Electronic Control of Biomolecules and Cells	TiO <sub>2</sub> Nanobelt Surface Heterostructures, Design, Synthesis, and Applications	Catalytic Asymmetric Synthesis of Planar-Chiral Ferrocenes & Their Applications in Optically Active Metallocene-Polymers	Co-Polymer Blend Technology for Aging Hair
1145 - 1200	S-MAST-0125 Kodo Kawase Nonlinear Optical THz-wave Sources and Applications	O-EECST-0078 Thomas Kolbusch Production Methods for Printed Electronics - An Overview on Application Systems and Processes	S-NCCS-0065 Toyoshi Shimada New Sol-Gel Polycondensation and Recyclable Palladium Catalyst on Silica Gel	S-SMCHC-0084 Michael Sullivan Insights Into Biomaterials Through Molecular Simulations
1200 - 1215		O-EECST-0087 Huber Andreas Nano-FTIR: Infrared Spectroscopic Chemical Identification of Materials at Nanoscale		
1215 - 1230	O-MAST-0034 Lim Yee Fun Piezoelectric Polymer Nanotube Arrays for Energy Harvesting	O-EECST-0141 Zhang Wenhua Cinchonine Derivatives as Ligands for Emissive Iridium (III) Complexes	O-NCCS-0043 Li Mei Cheng Nanomaterials for Photocatalysis and Photovoltaic Conversion	S-SMCHC-0197 Suresh Valiyavettill Biomass Derived Materials And Their Applications
1230 - 1245	O-MAST-0036 Chu Chih-Chien Photoswitchable Fluorescence On/Off Behaviour Between Cis- and Trans-rich Azobenzenes	O-SMCHC-0181 Bhattacharya Santanu Single-Walled Carbon Nanotubes in Cationic Cholesterol Suspensions Improve Gene Transfection Efficiency in Serum	O-NCCS-0097 Pan Jisheng Ambient Pressure X-ray Photoelectron Spectroscopy (APXPS) And Its Application in Catalysis Study	
1245 - 1300	<b>LUNCH and Poster Judging Session</b>			
1300 - 1315	<b>LUNCH and Poster Judging Session</b>			
1315 - 1330	<b>LUNCH and Poster Judging Session</b>			
1330 - 1345	<b>LUNCH and Poster Judging Session</b>			
1345 - 1400	<b>LUNCH and Poster Judging Session</b>			
Theatre IC	Naomi Soh Li Kai		Vivian Chan Qi Dongchen	Benedict Woo Aneesa
1400 - 1415	<b>KEYNOTE</b> Zhang Jie Organic and Printed Electronics Development Session Chair: Joel Yang		<b>KEYNOTE</b> Chang Young Tae Diversity Oriented Sensor Development Session Chair: Liu Xiaogang	
1415 - 1430				
1430 - 1445				
1445 - 1500	<b>TEA BREAK and Poster Judging Session</b>			
1500 - 1515	<b>TEA BREAK and Poster Judging Session</b>			
<b>Session Chair</b>	<b>Zhang Xinhai</b>		<b>Johnson Goh</b>	<b>Liu Ye &amp; Loh Xian Jun</b>
1515 - 1530	S-MAST-0144 Masayoshi Tonouchi Terahertz Science of Ferroelectrics		S-IED-0203 Leong Wei Lin High Performance Solution-Processed Organic Solar Cells Fabricated Using Molecular Materials	S-SMCHC-0133 Mary B Chan-Park A New Class of Contact Active Antimicrobial Polymer and Coating
1530 - 1545				
1545 - 1600	O-MAST-0037 Tan Chee Kiang, Ivan Effect of LIF on the Structure and Properties of Ba <sub>0.85</sub> Ca <sub>0.15</sub> Zr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> Lead-Free Piezoelectric Ceramics		S-IED-0121 Shinichi Takagi MOS Interface Control Of High Mobility Channel Materials For Advanced CMOS Applications	S-SMCHC-0173 Cleo Choong Scaffold-Based Approaches for Tissue Engineering Applications
1600 - 1615	O-MAST-0146 Sharifzadeh Mirshekarloo Meysam Ferroelastic Strain Induced Antiferroelectric-Ferroelectric Phase Transformation In Multilayer Thin Film Structures			
<b>Session Chair</b>	Liu Xiaogang		Johnson Goh	Liu Ye & Loh Xian Jun
1615 - 1630	S-LLN-0114 Zhang Yong Upconverting Fluorescent Nanoparticles for Light Based Detection, Disease Diagnostics and Therapy		S-IED-0048 Sophie Guezo Ballistic Electron Emission Microscopy (Beem): Local Probe Of Electronic Properties At Buried Interfaces	S-SMCHC-0056 Yen Peng Kong The Role of Matrix Identity and Traction Forces in Direct Cardiac Reprogramming
1630 - 1645				
1645 - 1700	S-LLN-0030 Chen Xueyan Lanthanide-Doped Luminescent Nano-Bioblabels: Controlled Synthesis, Optical Spectroscopy and Bioapplications		O-IED-0011 Shijie Wang Interface Engineering in Nanoelectric Devices	O-SMCHC-0066 Luo Shyh-Chyang The Formation of Nanostructure of Functionalized Polydioxithiophene by Template-free Electropolymerization and Its Biomedical Application
1700 - 1715			O-IED-0016 Cheng Yuanbing Effects of Si Interfacial Layer on Material Properties of GaAs/Ge Heterogeneous Integration	O-SMCHC-0073 Plazinski Wojciech Calcium Binding by Alginates: Structural and Dynamic Aspects. Insights from the Molecular Modeling Studies
1715 - 1730			O-IED-0024 Arabnejad Saied Molecular Dynamics Simulation of Mechanical Properties of Nylon6/Silica Interface with Surface Treatment	O-SMCHC-89 Jiang Shan Using Drosophila As An In Vivo Model to Study Oral Delivery of Polymeric Nanoparticles
1730 - 1745				O-SMCHC-0104 Liu Hui Engineering a Novel Scaffold for Bone Regeneration

Day 3 - Wednesday, 16 January 2013

Time	Exploration	Breakthrough	Creation
Theatre IC	Naomi Soh Liu Lei	Xu Weijie Qi Dongchen	Vivian Chan Dwayne
0900 - 0915	<b>PLENARY</b> Terunori Fujita Forging A New Path: FI Catalysts And The Creation Of Value-Added		
0915 - 0930			
0930 - 0945			
0945 - 1000			
1000 - 1015			
1015 - 1030	<b>TEA BREAK</b>		
1030 - 1045	<b>KEYNOTE</b> Chen Hongyu Active Motions in Colloidal Nanostructures Session Chair: Tan Wui Siew		<b>KEYNOTE</b> Chi Dongzhi Developing New Inorganic Materials for Solar Energy Harvesting Session Chair: Goutam Dalapati
1045 - 1100			
1100 - 1115			
Session Chair	Liu Bin (TBC)	Karthik Kumar	Yu Wing-Yiu
1115 - 1130	S-MAST-0063 Toshihiro Itoh Polymer Materials for Weaving-integrated Large Area Sensors and Transducers	S-IED-0176 Joel Yang Sharpening Plasmon Resonances In Lithographically-Defined Gold Nanostructures While Preserving Their Geometries	S-NCCS-0142 Steve Zhou Organic Synthesis Using New Palladium-Catalyzed Reactions
1130 - 1145			
1145 - 1200	O-MAST-0102 Zhang Xinhai Size and Surface Effects on Transient Photoconductivity of CDS Nanobelts Studied by Optical Pump-Terahertz Probe Spectroscopy	S-IED-0093 Teng Jinghua Surface Plasmon and Metamaterials At Mid-far-Infrared by insb and Graphene	S-NCCS-0117 Xu Zhengtao Porous Polymer and Sulfur-Functionalized Metal-Organic Frameworks for Catalysis
1200 - 1215			
1215 - 1230	<b>LUNCH</b>		
1230 - 1245			
1245 - 1300			
1300 - 1315			
Theatre IC	Naomi Soh Yang Weifeng	Xu Weijie Aneesa	Vivian Chan Dwayne
1315 - 1330	<b>PLENARY</b> Wolfgang Knoll Nano-Structured Polymeric/Hybrid Materials for Advanced Biosensing Session Chair: Su Xiaodi		
1330 - 1345			
1345 - 1400			
1400 - 1415			
1415 - 1430			
1430 - 1445	<b>KEYNOTE</b> Andries Meijerink Rare Earths For A Sustainable Earth Session Chair: Liu Xiaogang		<b>KEYNOTE</b> Peter Ho Contact Energetics and Engineering In Plastic Organic Electronic Devices Session Chair: Leong Wei Lin
1445 - 1500			
Session Chair			
1500 - 1515	S-LLN-0194 Xing Bengang Near-infrared Light Responsive Carrier Systems towards Real-time Bioluminescent Imaging and Effective Cellular Transport of Bioactive Payload Molecules	S-SMCHC-0191 Chen Xuesi Nano-sized polypeptide carriers for controlled release of anti-cancer drug with multi responsive properties	S-NCCS-0120 Naohiko Yoshikai Cobalt-Catalyzed C-H Bond Functionalization
1515 - 1530			
1530 - 1545	S-LLN-0186 Stephane Petoud Polymetallic Near-Infrared Emitting Lanthanide Nanomaterials Designed for Bioanalytical Applications and Biological Imaging	S-SMCHC-0170 Li Jun Supramolecular Self-Assembled Polymeric Systems for Delivery of Bioactives	S-NCCS-0124 Yu Wing-Yiu Catalytic C-H Bond Cross Coupling Reactions for C-C and C-N Bond Formations
1545 - 1600			
1600 - 1615	<b>TEA BREAK</b>		
1615 - 1630			
Session Chair	Chen Xueyan	Liu Zhaolin	Steve Zhou
1630 - 1645	S-LLN-0112 Tan Mei Chee Solvothermal Synthesis Of Optical Ceramic-Polymer Nanocomposites	S-EECST-0045 Garche Juergen Growth Of Sei And Its Influence On Capacity And Power	S-NCCS-0128 Zhao Yu New Strategy for Tertiary Alcohol Kinetic Resolution
1645 - 1700			
1700 - 1715	O-LLN-0076 Couto dos Santos Marcos Antonio The Method of Equivalent Nearest Neighbour Applied to Lanthanide Doped Crystals	S-EECST-0069 Yu Aishui High Specific Capacity Anode Materials For Lithium Ion Batteries	
1715 - 1730			
1745	Depart Biopolis to Ngee Ann City for Conference Dinner		