



25 July 2013 (Thursday)

<i>Time</i>	<i>Event / Title</i>	<i>Presenter(s)</i>
10.00 a.m.	Registration	
10:30 a.m.	Welcome Address	Chennupati Jagadish Convenor, ANN
10.45 -11.30am.	Biotactical Engineering – stimulating biology	Sally McArthur Swinburne University
Oral Session 1: Bio-nano (Chair: Simon Bou)		
11:30-11:45 a.m.	New generation contrast agents for multimodal imaging of breast cancer	Becky Fuller University of Western Australia
11:45-12:00 p.m.	Encapsulation of Silver Nanoparticles in a Potato Starch Matrix by Miniemulsion Polymerization and Antibacterial Study	Shima Taheri University of South Australia
12:00-12:15 p.m.	Co-delivery of Fluorouracil and siRNA by Mesoporous Silica Nanoparticles to Drug Resistant Colorectal Cancer	Lijue Chen Deakin University
12:15-12:30 p.m.	Healing traumatised bones: perspectives of nano-engineered drug-releasing implants	Karan Gulati University of Adelaide
12:30-01:45 p.m.	Lunch	
01:45-02.30 p.m.	Micropatterned Surface Coating by dewetting of thin polymer films	Chiara Neto University of Technology Sydney
Oral Session 2: Bio-nano (Chair: Jin Jau Liau)		
02:30-02:45 p.m.	Stabilisation of cubic liquid crystals dispersion using silica nanoparticles: Influence on internal structure and drug release properties.	Achal Bhatt University of South Australia
02:45-03:00 p.m.	Self-assembly Synthesis of Hollow Mesoporous Silica Nanoparticles Assisted by a macromolecule polymer for drug delivery	Xiaodong She Deakin University
03:00-03:15 p.m.	Characterisation of silver nanoparticle interaction with lipid bilayer membranes	Vanessa Thompson Flinders University
03:15-03:30 p.m.	Electrospun Natural Rubber Fibres for	Yongzhen Li

	Artificial Blood Vessel Scaffold	Deakin University
03:30-04:00 p.m.	Afternoon Tea	
04:00 p.m.	Career Building Session Panel Discussion: What are future employers looking for?	
05:00 p.m.	Poster Session	
06:30 p.m.	Departure for Dinner	
07:00 p.m.	Dinner - The Surf Club- Glenelg	

July 26, 2013 (Friday)

<i>Time</i>	<i>Event / Title</i>	<i>Presenter(s)</i>
09:00-09:45 a.m.	Following the blue-print of nature: artificial photosynthesis	Thomas Nann University of South Australia
Oral Session 3: Energy (Chair: Lachlan Larsen)		
09:45-10:00 a.m.	Transforming Conducting Polymers: Creating Semimetallic, Highly Conductive Films	Drew Evans University of South Australia
10:00-10:15 a.m.	Nano- overlapped tectonic plates enabled high temperature oxide stretchable electronics	Philipp Gutruf RMIT
10:15-10:30 a.m.	The potential sunlight harvesting efficiency of single walled carbon nanotube solar cells	Daniel Tune Flinders University
10:30-10:45 a.m.	Vertical graphene nanosheets from natural precursors for supercapacitor applications	Zhao Jun CSIRO
10:45-11:00 a.m.	High Quantum Efficiency Photocathode for Water Reduction	Tom Macdonald University of South Australia
11:00-11:30 a.m.	Morning Tea	
Oral Session 4: Nanomaterials / Nanofabrication (Chair: Yatin Jadavji Mange)		
11:30-11:45 a.m.	Fabrication of thin single crystal diamond membranes using CVD and lift-off	Afaq Habib Piracha University of Melbourne
11:45-12:00 p.m.	Localized fabrication of pure platinum nanostructures	Chris Elbadawi University of Technology Sydney
12:00-12:15 p.m.	Three Dimensional Graphene based Architectures and their Application in Flexible Materials	Chunfang Feng Deakin University
12:15-12:30 p.m.	A Thiol-Ene click approach to decoration of silica nanoparticles	Daniel Mangos Flinders University
12:30-12:45 p.m.	Production of conductive elastomeric	Shayan Seyedin

	composite fibres for strain sensing applications	University of Wollongong
12:45-01:00 p.m.	Electroless metal deposition as a pathway to surface enhanced Raman substrates	Leonora Velleman Deakin University
01:00-01:30 p.m.	Lunch	
02:00-02:45 p.m.	Understanding and Manipulating the Structure of Interfaces in Organic Photovoltaic Devices	David Lewis Flinders University
02:45 p.m.	Prizes and Concluding Remarks	
03:00 p.m.	Closing Remarks	

Poster Presentations

Poster Session: Thursday 05:00-06:30 p.m.

<i>Presenter</i>	<i>Presentation Title</i>	<i>Poster ID</i>
Hussein N Ahmadabadi	Oxygen deficiency control in RF magnetron sputtered SrTiO₃ perovskite oxide thin films for resistive switching applications	P1
Melissa Dewi	Nearly monodisperse iron oxide (Fe₃O₄) nanocubes	P2
Bonnie Fadi	Tuning the optical absorption spectra of Metal Island Films through interacting surface plasmon modes	P3
Qian Gao	InP nanowires grown by SA-MOVPE	P4
Christopher Hassam	Modelling and experimental investigation of nanoparticulate fluidised beds	P5
Juanita Hughes	Investigation of ultra trace detection in functionalised-Surface Enhanced Raman Spectroscopy (SERS)	P6
Ehsan Jazaeri	A Study of Pyrolysis Conditions on Carbon Nanofiber Properties Produced from Freeze-dried Cellulose Nanofibers	P7
Minsu Jung	Active Cu Species of Cu/TiO₂ on Photocatalytic Hydrogen Production	P8
Maryam Khaksar	Investigating the environmental transformation of surface functionalized silver nanoparticles through the use of plasma-polymerization	P9
Lachlan Larsen	Investigation of Solution Processed Few Layer Graphene for use in Graphene-Silicon Schottky Junctions	P10
Jin Jau Liao	Liposomes in double emulsion system for controlled release oral vaccine delivery	P11
Behnam Akhavan	Petroleum hydrocarbon removal via plasma polymer coated silica particles	P12
Yatin Jadavji Mange	Synthesis of CuInS₂/ZnS Quantum Dots via cation exchange as sensitizers for photoanodes	P13

Aiden Martin	Dynamic surface site activation: A rate limiting process in electron beam induced etching	P14
Peter Metaxas	Fast dynamics of magnetic domain walls under nano-scale confinement	P15
Thomas Michl	Chlorinated plasma polymers: "one-step" non-fouling polymer coatings	P16
Alaa Munshi	Synthesis of Fe₃O₄-Pd nanoparticles and their application as a magnetically recoverable catalyst for the Mizoroki-Heck cross coupling Reaction	P17
Divina Angela Navarro	Retention and remobilisation of silver and silver sulphide nanoparticles in soil	P18
Yasmin Rokhsana	Lyophilized silica-lipid hybrid (SLH) drug delivery systems: Physicochemical	P19
Toby Shanley	Controlling the surface properties of diamond using NF₃	P21
Faisal Khalid Alotaibi	Investigation of SbpA S-Layer Protein using Neutron Reflectometry	P22
Pejman Talemi	Chemical modification of poly (3,4-ethylenedioxythiophene) oxygen reduction electrodes	P23
Sam Turner	Wavelength Scale Dielectric Diffraction Gratings for Light-Trapping in InGaAs/GaAs Quantum Well Solar Cells	P24
Zhifeng Yi	Functionalized Mesoporous Silica Nanoparticles for Smart Agrichemical Delivery System	P26
Chun-Yang Yin	Adsorption of gold-cyanide complex (Au(CN)₂⁻) ion on nanoporous carbon and carbon spheres	P27
Xiaoming Yuan	Spontaneous formation of an core/shell structure in GaAs_{1-x}Sb_x nanowires	P28
Akash Bachhuka	Macrophages response to surface nanotopography	P29
Klaus Boldt	Synthesis of highly luminescent and stable CdSe/Cd_xZn_{1-x}S nanoparticles by in-situ alloying	P30
Simon Bou	DNA Nanotechnology and Controlling Polymer Chain length	P31
Alex Cavallaro	Nanoengineered antimicrobial gradients for understanding of biofilm formation	P32
Laurent Lee Cheong Lem	Nanoscale characterisation of hydrogen dopants in ZnO	P33