

Program

Monday 25 February

0800	Registration for short course participants only Venue: Registration, Level 2	
0900	SHORT COURSE 1 Venue: Corryong 1 & 2, Level 2 <i>Solar Cell Technology</i> Michael Grätzel Ecole Polytechnique Fédérale de Lausanne, Switzerland	SHORT COURSE 2 Venue: Corryong 4 & 5, Level 2 <i>Introduction to Atomic Force Microscopy: Imaging and Force Measurement</i> William Ducker University Of Melbourne, VIC
1030	Morning Tea Venue: You Yangs 3 & 5	Morning Tea Venue: Corryong 3
1100	SHORT COURSE 1 Venue: Corryong 1 & 2, Level 2 <i>Solar Cell Technology</i> Michael Grätzel Ecole Polytechnique Fédérale de Lausanne, Switzerland	SHORT COURSE 2 Venue: Corryong 4 & 5, Level 2 <i>Introduction to Atomic Force Microscopy: Imaging and Force Measurement</i> William Ducker University Of Melbourne, VIC
1230	Lunch Venue: You Yangs 1 & 2	Lunch Venue: Corryong 3
1330	SHORT COURSE 3 Venue: Corryong 1 & 2, Level 2 <i>Synthesis of Nanomaterials</i> Taeghwan Hyeon Seoul National University, South Korea	SHORT COURSE 4 Venue: Corryong 4 & 5, Level 2 <i>Applications of the Synchrotron to Nanoscience and Technology</i> Robert Lamb University of Melbourne, VIC
1500	Afternoon Tea Venue: You Yangs 1 & 2	Afternoon Tea Venue: Corryong 3
1530	SHORT COURSE 3 Venue: Corryong 1 & 2, Level 2 <i>Synthesis of Nanomaterials</i> Taeghwan Hyeon Seoul National University, South Korea	SHORT COURSE 4 Venue: Corryong 4 & 5, Level 2 <i>Applications of the Synchrotron to Nanoscience and Technology</i> Robert Lamb University of Melbourne, VIC
1700	Short courses conclude	Short courses conclude
1600 - 1830	Registration for conference delegates Venue: Registration Desk, Level 2	
1700 - 1800	Report of US - Australia Workshop on Sustainable Nano-Manufacturing Outcomes Venue: Corryong 1 & 2	
1800 - 1930	Welcome Reception sponsored by Department of Innovation, Industry, Science & Research, Australian Government Venue: You Yangs 6, Level 3	

Tuesday 26 February

0800	Registration Venue: Registration Desk, Level 2		Speakers' Support Centre Venue: John Batman Suite 1, Level 3			
0830	Exhibition Opens					
0830	<p>OPENING AND PLENARY SESSION 1 Venue: John Batman Theatre, Level 3 Chairs: Abid Khan and Chennupati Jagadish</p> <p>Welcome Paul Mulvaney Introduce Minister Abid Khan Open the Conference Gavin Jennings MLC, Minister for Innovation, Victorian Government Thank Minister Chennupati Jagadish</p>					
0900	<i>Nanotechnology: What Was, Is, and Is Projected to Be</i> Clayton Teague National Science And Technology Council, USA					
0945	<i>Classical Computation in Quantum Nanostructures: A Long Road to an Uncertain Future</i> Don Eigler IBM Almaden Research Center, USA					
1030	Morning Tea Venue: Exhibition Area					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM E Nanoindustry
	John Batman Chair: Max Lu	You Yangs 1 & 2 Chair: Paul Mulvaney	You Yangs 4 & 5 Chair: Frank Caruso	Corryong 1 & 2 Chair: Michelle Simmons	Corryong 4 Chair: Min Gu	Corryong 5 Chair: Noel Dunlop
1100	<u>Invited Speaker</u> <i>Fabrication of Nanoparticles and their Use in Materials and Life Sciences</i> Horst Weller University of Hamburg and Center of Applied Nanotechnology, Germany	<u>Invited Speaker</u> <i>Electronically tunable Nanomaterials</i> Horst Hahn Institute for Nanotechnology, Germany	<u>Invited Speaker</u> <i>Multimolecular-assembly of smart block copolymers as nanocarriers for gene and drug delivery</i> Kazunori Kataoka The University of Tokyo, Japan	<u>Invited Speaker</u> <i>Quantum nanoelectronics to quantum information processing</i> Lloyd Hollenberg The University of Melbourne, VIC	<u>Invited Speaker</u> <i>Nanostructured optical fibres</i> Tanya Monro University of Adelaide, SA	<u>Invited Speaker</u> <i>Dendrimers: Nanopharmaceuticals for drug delivery and as therapeutics</i> Jackie Fairley StarPharma

1130	<p><i>Synthesis and optical characterization of ternary compound phosphor nanoparticles by the ball-milling method</i> Masakazu Kobayashi Waseda University, Japan</p>	<p><i>Direct Growth of Flexible Carbon Nanotube Electrodes</i> Jun Chen Intelligent Polymer Research Institute, NSW</p>	<p><i>Encapsulation Of Drug Molecules Into Nanotubes</i> Tamsyn Hilder University Of Wollongong, NSW</p>	<p><i>The pursuit of beyond CMOS nanoelectronics</i> Kos Galatsis Western Institute of Nanoelectronics, University of California, USA</p>	<p><i>Preparation and Optical Properties of Hybrid Thin Films Containing Nano-Chalcogenides</i> Cong Ji Zha CSIRO Molecular & Health Technologies, VIC</p>	<p><i>Nanotechnology in Australia: Challenges and Opportunities in Industry Development</i> Peter Binks NanoVic, VIC</p>
1145	<p><i>Thermal stability of gold nanorod doped nanocomposites for optical patterning</i> Peter Zijlstra Centre For Micro-Photonics, VIC</p>	<p><i>Electrochemical Pneumatic Actuators Using Carbon Nanotube Electrode</i> Binbin Xi University Of Wollongong, NSW</p>	<p><i>Biomolecule Encapsulation Within Degradable Polymeric Microcapsules</i> Alexander Zelikin University Of Melbourne, VIC</p>	<p><i>Nanospintronics meets relativistic quantum physics: ubiquity of Zitterbewegung effects</i> Ulrich Zuelicke Massey University, New Zealand</p>	<p><i>Photoluminescence from single CdSe/CdS nanocrystals: Multiple levels of photon emission</i> Daniel Gomez University Of Melbourne, VIC</p>	<p><i>Volume Manufacture of Dye Solar Cells</i> Hans Desilvestro Dyesol, NSW</p>

Tuesday 26 February (continued)

1200	<i>Synthesis Of 3-D Gold Nanoparticle Colloidal Crystals</i> Nadine Harris University Of Technology, NSW	<i>Comparing the ion electrosorption properties of ordered and disordered mesoporous carbon</i> Linda Zou Victoria University, VIC	<i>Targeted Epidermal Delivery of Vaccines From Coated Micro-Nanoprojection Patches</i> Tarl Prow AIBN University Of Queensland, QLD	<i>A field effect transistor based on an individual single-crystalline Bi nanowire with extraordinary mobility</i> Wooyoung Lee Yonsei University, Korea	<i>Angle-dependent Stop Gap Effects of a 3D Photonic Crystal on Photoluminescence Decays from PbSe Quantum Dots</i> Jiafang Li Centre For Micro-Photonics & CUDOS, VIC	<i>Nano-Enable Mining Technology – Beyond the Canary</i> Peter Kambouris CSIRO Exploration & Mining, QLD
1215	<i>Tuning the Au nanoparticle shape through a seeded-growth method</i> Isabel Pastoriza-Santos University Of Vigo, Spain	<i>Modification of layered metal oxides and their photocatalytic and electrochemical properties</i> Lianzhou Wang University of Queensland, QLD		<i>Determination of the eigenstates and wavefunctions of a single gated As donor</i> Gabriel Lansbergen Delft University Of Technology, Netherlands	<i>Color Filter Incorporating a Sub-wavelength Metallic Grating</i> Hong-Shik Lee Kwangwoon University, Korea	
1230	Group Photo Venue: Atrium (outside Exhibition Area)					
1300	Lunch Sponsored by Raith GmbH					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM E Nanoindustry
	John Batman Chair: Horst Weller	You Yangs 1 & 2 Chair: Horst Hahn	You Yangs 4 & 5 Chair: Kazunori Kataoka	Corryong 1 & 2 Chair: Erich Weigold	Corryong 4 Chair: Tanya Monro	Corryong 5 Chair: Clive Davenport

1330	<p><u>Invited Speaker</u> <i>Shape, Heterostructure, and Solvent Tuning of Light-induced Processes in Semiconductor Nanocrystals</i> Gregory Scholes University Of Toronto, Canada</p>	<p><u>Invited Speaker</u> <i>Interfacial Nanobubbles and Fluids</i> William Ducker University Of Melbourne, VIC</p>	<p><u>Invited Speaker</u> <i>Targeted Nanoparticles in Biologic Systems</i> Andrew Scott Ludwig Institute for Cancer Research, VIC</p>	<p><u>Invited Speaker</u> <i>New Horizons In Nanoscale Magnetism: Fundamentals And Applications</i> Roland Wiesendanger University of Hamburg, Germany</p>	<p><u>Invited Speaker</u> <i>One-dimensional Assemblies Of Metal Nanoparticles Using Carbon Nanotubes As Templates</i> Luis Liz-Marzán Universidade De Vigo, Spain</p>	<p><u>Invited Speaker</u> <i>Dangers in Overregulation: Learning from the GM Experience</i> Dwayne Kirk Monash Institute of Nanoscience, Materials and Manufacturing, VIC</p>
1400	<p><i>Microwave Assisted Synthesis of ZnS nanotubes</i> Smita Acharya St Vincent Pallotti College Of Eng And Tech, India</p>	<p><i>AFM Characterisation of Self-Assembled Porphyrins</i> John Canning University Of Sydney, NSW</p>	<p><i>Nanopatches for Needle-free delivery of vaccines to skin</i> Mark Kendall University of Queensland, QLD</p>	<p><i>Nano-scale dopant rings in Si patterned by STM lithography</i> Thilo Reusch University Of New South Wales, NSW</p>	<p><i>A Statistical Approach for Measuring Dislocations In 2D Photonic Crystals</i> Radu Malureanu Technical University Of Denmark, Denmark</p>	<p><i>Nanotechnology in Italy – The Importance of International Linkages</i> Carla Gerbo Australian Nano Alliance, QLD</p>
1415	<p><i>The Effect Of Electrostatic Charging On The Photoluminescence from CdSe/CdS/ZnS Semiconductor Nanocrystals</i> Ann Gooding The University of Melbourne, VIC</p>	<p><i>Atomic Force Microscopy for Industry with the Akiyama-Probe Sensor</i> Stephen Stuecklin Nanosurf AG, Switzerland</p>	<p><i>Can We Determine Protein Structures Using Light?</i> Timothy Davis CSIRO, VIC</p>	<p><i>STM and STS Study Of Porphyrins</i> Mark Bissett Flinders University, SA</p>	<p><i>Fabrication and Characterization of Hybrid DBPPV-CdSe/ZnS Quantum Dot Light-Emitting Diodes</i> Chun-Yuan Huang Institute Of Microelectronics And Department Of Electrical Engineering, Taiwan</p>	<p><i>Emerging Markets for Nanomaterials and Nanotechnology Segments</i> Thomas Abraham Innovative Research and Products, USA</p>



Tuesday 26 February (continued)

1430	<p><i>Synthesis and Characterization of Zn-TiO₂ Porous Materials for Dye-Sensitized Solar Cell Application</i> Fuzhi Huang The University of Melbourne, VIC</p>	<p><i>Dynamics of Microcantilevers in Fluids and Force Measurements using the Atomic Force Microscope</i> John Sader University Of Melbourne, VIC</p>	<p><i>Soft Cell Rupture Device Using Nano Needle Alloy for Damage-free Extraction of Organelles</i> Daisuke Yamazaki Waseda University, Japan</p>	<p><i>Current-Voltage Characteristics of Silicon Oxide Nanodot Grown by AFM Lithography</i> Sabar D Hutagalung Universiti Sains Malaysia, Malaysia</p>	<p><i>Ni-related optical centres in diamond produced by ion implantation</i> Julius Orwa University Of Melbourne, VIC</p>	<p><i>From Nanoresearch to Nanobusiness Taiwan Approaches</i> Tsung-Tsan Su Industrial Technology Research Institute, Taiwan</p>
1445	<p><i>Energy Transfer Between CdSe Quantum Dots and Molecular Quenchers</i> Alison Funston The University Of Melbourne, VIC</p>	<p><i>System modelling and calibration of an Atomic Force Microscope</i> Guillaume Michal University Of Wollongong, NSW</p>	<p><i>Probing the Nanoscale Interactions of Single Living Cells at Biocomposite Electromaterial Interfaces for Bionic Applications using Atomic Force Microscopy (AFM)</i> Michael Higgins Intelligent Polymer Research Institute (IPRI), NSW</p>	<p><i>Atomically controlled dopant devices in silicon created by scanning probe microscopy</i> Frank J Ruess Centre For Quantum Computer Technology, NSW</p>	<p><i>Polarisation Cross Coupling in SOI Linear Photonic Crystals</i> John Canning School Of Chemistry/OFTC, NSW</p>	<p><i>Materials for Microwave Applications</i> Richard Taylor Microwave and Materials Design, QLD</p>
1500	Afternoon Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM E Nanoindustry
	John Batman Chair: Gregory Scholes	You Yangs 1 & 2 Chair: William Ducker	You Yangs 4 & 5 Chair: Andrew Scott	Corryong 1 & 2 Chair: Lloyd Hollenberg	Corryong 4 Chair: Luis Liz-Marzán	Corryong 5 Chair: Dwayne Kirk

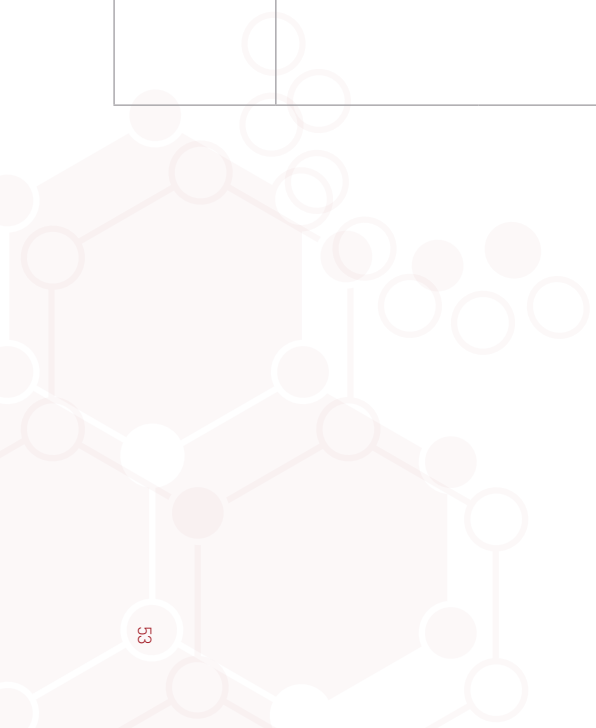
1530	<p><i>Size-Dependent Reactivity of Metal Oxide Nanoparticles</i> Manh Hoang CSIRO Materials Science & Engineering, VIC</p>	<p><i>A Versatile Approach for the Synthesis of Core-Shell Metal-pNIPAM Thermoresponsive Nanocomposites</i> Jorge Perez-Juste University Of Vigo, Spain</p>	<p><i>Liquid Crystal Anchoring by the Nanoscale Structure of an Adsorbed Langmuir Monolayer: Application for the Direct Readout of DNA Hybridization Events</i> Andrew Price University of Colorado, USA</p>	<p><i>Development of Single Ion Implantation Technology</i> Changyi Yang University Of Melbourne, VIC</p>	<p><i>Photothermal Energy Conversion And Its Applications Of The Localized Surface Plasmon Enhancement Effect Inside Gold Nanoparticle-Polymer Composites</i> Kyongsik Choi Swinburne University Of Technology, VIC</p>	<p><i>Invited Speaker Nanotechnology for Energy</i> Eric Isaacs Argonne National Laboratories, USA</p>
1545	<p><i>Flame-Synthesised Copper Ceria Catalysts</i> Richard Kydd ARC Centre For Functional Nanomaterials, NSW</p>	<p><i>Polypyrrole Nanofibres as the Sensing Element of a Conductometric Hydrogen Gas Sensor</i> Laith Al-Mashat RMIT University, VIC</p>	<p><i>Design Considerations in the Development of Polymer Stabilised Magnetic Nanoparticles for MRI Contrast Enhancement</i> Matthew Carroll University Of Western Australia, WA</p>	<p><i>Fabrication Of Nickel Centers In Diamond For Quantum Optical Applications</i> Igor Aharonovich University Of Melbourne, VIC</p>	<p><i>Luminescence and amplified stimulated emission in quantum dot doped TiO2 and ZrO2 waveguides</i> Alessandro Martucci Università di Padova, Italy</p>	



Tuesday 26 February (continued)

1600	<p><i>Antimicrobial And Antibacterial Effects Of Silver Nanoparticles Synthesized By Novel Electrochemical Method</i> Renat Kharydarov Institute Of Nuclear Physics Of Uzbekistan Academy Of Sciences, Uzbekistan</p>	<p><i>Modification of Multiferroic Bismuth Ferrite</i> Xiaolin Wang University Of Wollongong, VIC</p>	<p><i>Biological Receptor Scaffolds based on Self Assembled Liquid Crystal Mesophases</i> Patrick Hartley CSIRO Molecular & Health Technologies, VIC</p>	<p><i>Photoluminescence of Silicon For The Silicon Quantum Computer</i> Nikolas Stavrias Centre For Quantum Computer Technology, VIC</p>	<p><i>Synthesis and photoelectro-chemical studies of nanostructured WO3 films</i> Bin Yang ANSTO, NSW</p>	<p><i>Transition from MEMS Technology to Nanofabrication</i> Herwig Kirchberger EV Group</p>
1615	<p><i>Synthesis and Characterisation of Pb free Sn-3.5Ag-XZn alloy nanoparticles by chemical reduction method</i> Udit Mohanty National Cheng Kung University, Taiwan</p>				<p><i>Direct Laser Fabrication Of Three-Dimensional Microstructures In Chalcogenide Glasses</i> Elisa Nicoletti Swinburne University Of Technology, VIC</p>	<p><i>Supporting innovation & industry - establishing Australia's nanofabrication infrastructure</i> Rosie Hicks Australian Nanotechnology Fabrication Facility, VIC</p>

1630	Sessions conclude	INDUSTRY PANEL DISCUSSION Chair: Ian Birkby <i>Where Nanotechnology is Going</i> Clive Davenport Small Technologies Cluster/MANCEF Roy Rose ITL Eric Isaacs Argonne National Laboratories Leo Hyde Du Pont Erol Harvey miniFab
1630 - 1830	Happy Hour / Poster Session & Viewing Venue: You Yangs 6, Level 3	



Wednesday 27 February

0800	Registration Venue: Registration Desk, Level 2		Speakers' Support Centre Venue: John Batman Suite 1, Level 3			
0830	Exhibition opens					
	PLENARY SESSION 2 Venue: John Batman Theatre, Level 3 Chairs: Paul Mulvaney and Michelle Simmons					
0850	Introduction					
0900	<i>The Magic World of Nanocrystals, From Batteries to Solar Cells</i> Michael Grätzel Ecole Polytechnique Fédérale de Lausanne, Switzerland					
0945	<i>A narrow-minded approach to materials science and device physics: NANOWIRES</i> Lars Samuelson University of Lund, Sweden					
1030	Morning Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM E Nanoindustry
	John Batman Chair: Jim Williams	You Yangs 1 & 2 Chair: Peter Majewski	You Yangs 4 & 5 Chair: Angus Johnston	Corryong 1 & 2 Chair: Roland Wiesendanger	Corryong 4 Chair: Laurie Faraone	Corryong 5 Chair: Peter Binks
1100	Invited Speaker <i>Time-Resolved Spectroscopy Studies of Single Metal Nanoparticles</i> Gregory Hartland University Of Notre Dame, USA	Invited Speaker <i>Molecular magnetic coupling studied by scanning tunneling microscopy</i> Qikun Xue Tsinghua University, China	Invited Speaker <i>Using Liquid Crystals to Amplify Nanoscopic Events in Biological Systems</i> Nick Abbott University of Wisconsin-Madison, USA	Invited Speaker <i>Coherence and control of single electron spins in quantum dots</i> Lieven Vandersypen Kavli Institute of Nanoscience at TU Delft, Netherlands	Invited Speaker <i>An ultrafast, local view of slow light in nanostructures</i> Kobus Kuipers FOM Institute AMOLF, Netherlands	Invited Speaker <i>Introducing new technology to industry – what are some of the issues to be faced?</i> Roy Rose ITL, VIC

1130	<p><i>Dis-Assembling Nano-capsules using Rotating Surfaces</i> Colin Raston Centre For Strategic Nano-Fabrication, WA</p>	<p><i>Fabrication of diamond quantum dots by Seeding through Porous Anodic Aluminium Oxide Nanotemplates</i> Jinghua Fang University Of Melbourne, VIC</p>	<p><i>High-Sensitive Label-Free Prostate Specific Antigen Sensors Based on Carbon Nanotube Electrodes</i> Kenzo Maehashi Osaka University, Japan</p>	<p><i>Electrically detected magnetic resonance in accumulation-layer MOSFETs</i> Laurens Willems van Beveren Centre For Quantum Computer Technology, NSW</p>	<p><i>Structuring of Grating Arrays in Multilayered Foil by Laser Ablation</i> Patrick Leech CSIRO CSIRO Molecular And Health Technologies, VIC</p>	<p><i>Australian Government support for industry innovation</i> Bronwyn Williams AusIndustry, VIC</p>
1145	<p><i>Synthesis and Magnetic Properties of Ni_{0.35}Cu_{0.25}Zn_{0.4}Fe₂O₄ Ferrite Nanoparticles Prepared by A Simple Method Using A Aloe Vera Solution</i> Paveena Laokul Khon Kaen University, Thailand</p>	<p><i>Surface Texturing by Nano-sphere Deep-coating for Solar Cell Applications</i> Pei-Hsuan Wu National Cheng Kung University, Taiwan</p>	<p><i>Nanofabricated Electrochemical Sensing Arrays</i> Sinéad Matthews University Of Cambridge, United Kingdom</p>	<p><i>Quantum Dots And RF-SETs In Silicon</i> Susan Angus Centre For Quantum Computer Technology, NSW</p>	<p><i>Fabrication of optical devices in sub micron layers of single crystal diamond</i> Barbara Fairchild University Of Melbourne, VIC</p>	<p><i>What venture capital investors are looking for when deciding which research to commercialise</i> Andrew Pickering Cleantech Ventures, VIC</p>
1200	<p><i>Giant magnetoresistance in rare earth doped polycrystalline In₂O₃</i> Germanas Peleckis University Of Wollongong, NSW</p>	<p><i>Non-metal (N, I and B) Doped Nanocrystalline Titania as Visible Light Photocatalysts</i> Gang Liu University Of Queensland, QLD</p>	<p><i>Light-activated Bio-hybrids for Applications in Nanobiotechnology</i> Pall Thordarson University Of New South Wales, NSW</p>	<p><i>A study of quasiparticle traps with the single Cooper-pair transistor</i> Nadia Court Centre For Quantum Computer Technology, NSW</p>	<p><i>Growth of 1.3µm highly strained GaAsSb/GaAs multiple quantum wells by MOVPE</i> Cheng-Tien Wan Institute Of Microelectronics, Taiwan</p>	<p><i>Connecting Researchers with Nanotechnology Users</i> John Kapeleris Australian Institute for Commercialisation</p>

Wednesday 27 February (continued)

1215	<p><i>Fullerene C60 Functionalised Core Cross-linked Star Polymers</i> Anton Blencowe The University Of Melbourne, VIC</p>	<p><i>Photoresponsive Self-assembled Monolayers on Silicon (111)</i> Tamim Darwish Australian Nuclear Science and Technology Organisation (ANSTO), NSW</p>	<p><i>Photonic Nanobiosensor platforms for label-free detection of single mutations in DNA</i> Laura Lechuga Research Center On Nanoscience And Nanotechnology, Spain</p>	<p><i>Architecture for Coherent Control of the Electron Spin of a Single Phosphorus Atom in Silicon</i> Andrea Morello Centre For Quantum Computer Technology, NSW</p>	<p><i>Low and High Power Pulses from Laser Systems</i> Natasha Devine Australian National University, ACT</p>	<p><i>Government Funding 101 – Applied fundamentals for assistance programs</i> Stuart Wallace AIC</p>
1230	Lunch Sponsored by CSIRO					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM E Nanoindustry
	John Batman Chair: Gregory Hartland	You Yangs 1 & 2 Chair: Qikun Xue	You Yangs 4 & 5 Chair: Nick Abbott	Corryong 1 & 2 Chair: Lieven Vandersypen	Corryong 4 Chair: Kobus Kuipers	Corryong 5 Chair: Roy Rose
1330	<p><i>Invited Speaker Design and Fabrication of 3-D Nanostructures Based on Crystallography</i> Yingchun Zhu Chinese Academy Of Sciences, China</p>	<p><i>Invited Speaker Synchrotron Light @ Solid-Liquid Interfaces.</i> Helmut Dosch Max Planck Institute for Metals Research, Germany</p>	<p><i>Invited Speaker Self-Organization of Nanoparticles</i> Nick Kotov University of Michigan, USA</p>	<p><i>Invited Speaker Atomistic Simulation of Realistically Sized Nanodevices Using NEMO 3-D</i> Gerhard Klimeck Purdue University, USA</p>	<p><i>Invited Speaker Nanoplasmonic Manipulation And Analysis Of Biomolecules</i> Jochen Feldmann Ludwig-Maximilians-Universität (LMU), Germany</p>	<p><i>The Translational Research and Commercialisation of Nanotechnology. The Australian Institute for Bioengineering and Nanotechnology</i> Craig Belcher AIBN</p>

1400	<i>Bioinspired Water Oxidation Catalysis</i> Leone Spiccia Monash University, VIC	<i>On the Formation of Silicon Nanowires by Molecular Beam Epitaxy</i> Peter Werner MPI of Microstructure Physics, Germany	<i>Functional Nanoparticles for MRI, CT X-Ray and Multimodal Lymph Node Imaging</i> Benjamin Thierry IWRI UNISA, SA	<i>Spatial adiabatic passage as a quantum wire</i> Andrew Greentree University Of Melbourne, VIC	<i>Two-photon induced-photoluminescence of CdS quantum rod ensembles</i> Xiangping Li Swinburne University, VIC	<i>IP competitive intelligence – a critical tool for the successful management of Intellectual Assets</i> Karen Sinclair Watermark Patent & Trade Mark Attorneys, VIC
1415	<i>Characterisation of a W-Cu Nanocomposite Fabricated By High Pressure Torsion</i> Darren Edwards DSTO, VIC	<i>Direct Evidence Of A Nanosized High Pressure Phase Of Silicon During Nanogrinding</i> Yong Wang University Of Queensland, QLD	<i>Production of Magnetically Responsive Nanocomposites by Dense Gas Technology</i> Wendy Lam University Of New South Wales, NSW	<i>Intrinsic Characterization techniques for qubit systems</i> Simon Devitt National Institute For Informatics, Japan	<i>Single chain luminescence of a conjugated polyelectrolyte</i> Toby Bell University Of Melbourne, VIC	<i>Trends in Nanotechnology Patenting</i> Mark Roberts Davies Collison Cave, VIC
1430	<i>Chemical Sensing Properties of Gold Nanoparticles</i> Edith Chow CSIRO Materials Science & Engineering, NSW	<i>Raman Study Of Hydrogen-Related Defects In The Ion Cut Process</i> Brett Johnson University Of Melbourne, VIC	<i>Plasma polymer films that kill bacteria</i> Krasimir Vasilev Ian Wark Research Institute, SA	<i>Cavity Enhancement of a Nitrogen-Vacancy-based Single Photon Source</i> Su Chun-Hsu University Of Melbourne, VIC	<i>Finite Element Simulation of Absorbance Modulation Optical Lithography</i> John Foulkes University Of Canterbury, New Zealand	<i>IP Considerations in Structuring Nanotechnology Research</i> Michelle Hedges Phillips Ormond & Fitzpatrick
1445	<i>Synthesis Of Anisotropic Nanoparticles Using Mechanochemical Processing</i> Aaron Dodd The University Of Western Australia, WA	<i>Field-effect in Si/CeO₂ structure</i> Dmitry Milovzorov Fluens Technology Group, Russia		<i>Phase Transitions In Photonic Cavities: Exact Vs. Mean-field</i> Melissa Makin University Of Melbourne, VIC	<i>Acoustic phonon contributions to single CdSe/CdZnS core/graded shell nanocrystal emission spectra</i> Mark Fernee University Of Queensland, QLD	<i>Australian Nanotechnology And The Australian Nano Business Forum (ANBF)</i> Tina Rankovic ANBF



Wednesday 27 February (continued)

1500	Afternoon Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM D Nanophotonics	SYMPOSIUM G Health & Safety
	John Batman Chair: Yingchun Zhu	You Yangs 1 & 2 Chair: Helmut Dosch	You Yangs 4 & 5 Chair: Nick Kotov	Corryong 1 & 2 Chair: Gerhard Klimeck	Corryong 4 Chair: Jochen Feldmann	Corryong 5 Chair: John Miles
1530	<i>New Insight Towards Influence Of Poly(lamidoamine) (PAMAM) Dendrimers On Gold Nanoparticle Formation</i> Lee Hoffman Flinders University, SA	<i>Transmetallation Reaction in Metal Thin Films to create Nanoporous Surfaces for Catalysis and Sensing</i> Suresh Bhargava RMIT University, VIC	<i>Novel Coating Of Micro-nanoprojection Patches For Targeted Vaccine Delivery To Skin</i> Xianfeng Chen University Of Queensland, QLD	<i>Electrical Characterisation of Cluster-based Electronic Device</i> Pierre Convers University Of Canterbury, New Zealand	<i>Near-field reveals the local mode property of 3D woodpile photonic crystals</i> Baohua Jia , Swinburne University of Technology, VIC	5 X 10 MINUTE PRESENTATIONS <i>Standards Development for Nanotechnologies</i> John Miles National Measurement Institute Australia, VIC
1545	<i>Attachment of vertically aligned SWCNTs to p-doped silicon using a thioester linkage</i> Amanda Vera Ellis Flinders University, SA	<i>Microporous sol-gel and zeolite membranes for reduced energy desalination</i> Mikel Duke Victoria University, VIC	<i>Immobilisation of proteins onto Porous Silicon Surfaces using Novel Alkene Linkers</i> Martin Sweetman Flinders University, SA	<i>Spontaneous Polarisation Effects In ZnO</i> Martin Allen University Of Canterbury, New Zealand	<i>Surface and Optical Characteristics of of Vacuum Deposited Polyaniline Ultra-thin film</i> Mohamed Abdul Wahab Universiti Teknologi MARA, Malaysia	<i>NICNAS and the regulation of industrial nanomaterials</i> Matthew Gredley NICNAS, NSW
1600	<i>Microstructure and magnetic properties of Mn3O4 coated gamma-MnOOH nanowires</i> Rongkun Zheng The University Of Sydney, NSW	<i>A Generalisable Click Chemistry Approach to the Nano-Engineering of Thin Films</i> Georgina Such University Of Melbourne, VIC	<i>Superparamagnetic Fluorescent Mesoporous Silica Capsules For Biomedical Applications</i> Suk-Fun Chin University Of Western Australia, WA	<i>Magnetic Carbon Nanoclusters Formed by MHz Pulse-rate Laser Ablation</i> Andrei Rode Australian National University, ACT	<i>A Parallel Self-Mixing Sensor Using 12-Channel Monolithic VCSEL Array</i> Yah Leng Lim University Of Queensland, QLD	<i>Nanotechnology OHS Research & Development Program</i> Howard Morris Australian Government, ACT

1615	<i>Effective slip boundary conditions for flows over nanoscale chemical heterogeneities</i> Shaun Hendy Industrial Research Ltd, New Zealand	<i>Manipulating The Stability Of DNA Multilayer Films Via Oligomer Size</i> Lillian Lee University Of Melbourne, VIC	<i>Dendrimers as Nanostructured Drug Delivery Systems: Insight from Studies on Supported Lipid Bilayers and Liposomes</i> Timothy Barnes Ian Wark Research Institute, SA	<i>Tunable Electronic Conduction In Functionalized Nanoparticle Films</i> Jan Herrmann CSIRO Materials Science And Engineering, NSW	<i>The fluorescence and mass spectrometry of nanomaterials stored in a quadrupole ion trap</i> Phil Wearne University Of Melbourne, VIC	<i>Gaps and triggers in nanotechnology regulation</i> Graeme Hodge Monash University, VIC Laurie Hodgman Department of Environment, Water, Heritage & the Arts
1630	<i>In Situ Synchrotron Studies of Electrochemically Deposited ZnO Nanostructures</i> Bridget Ingham Industrial Research Limited, New Zealand	<i>Characterisation of Thin-Film Nanoarchitectures Using Neutron and X-ray Reflectometry</i> Michael James ANSTO, NSW	<i>Synthesis Of A Heterobifunctional Polyethylene Glycol Derivative For Quantum Dot Bioconjugation</i> Emma Lees University Of Melbourne, VIC	<i>The Study of Electrical Properties of AlGaIn/GaN Heterostructure Field Effect Transistors in Presence of InN Quantum Dots</i> Asghar Asgari University Of Tabriz, Iran	<i>Low Loss Optical Alloys for Plasmonics</i> Martin Blaber University Of Technology, NSW	PANEL DISCUSSION
1645	<i>Synthesis and optical properties of CdSe based heterostructure nanocrystals</i> Joel van Embden Swinburne University of Technology, VIC	<i>Molecularly Imprinted Organosilicon Polymers</i> Lee Armbrust CSIRO, VIC	<i>Peptide Based Macromolecular Assemblies as Potential Cancer Therapeutics</i> Vicky-Jane Ellis Griffith University, QLD		<i>Dislocation related band-edge Photoluminescence in Boron-implanted Silicon</i> Byron Villis University Of Melbourne, VIC	

1700 - 1800	<p><i>ARC Funding Opportunities Seminar</i> Ian Mackinnon ARC Executive Director Lloyd Hollenberg University of Melbourne, ARC Panel Member Venue: You Yangs 1 & 2</p>
1900 - 2230	<p>Conference Dinner Sponsored by the Victorian Government Department of Innovation, Industry and Regional Development Venue: Bellarine 6 & 7, Level 5</p>

Thursday 28 February

0800	Registration Venue: Registration Desk, Level 2	Speakers' Support Centre Venue: John Batman Suite 1, Level 3				
0830	Exhibition opens					
	<p>PLENARY SESSION 3 Venue: John Batman Theatre, Level 3 Chairs: Paul Wright and Max Lu</p>					
0850	Introduction					
0900	<i>Correlating Structure with Toxicity for Engineered Nanoparticles: Towards 'Safety by Design'</i> Vicki Colvin Rice University, USA					
0945	<i>Synthesis and Biomedical Applications of Uniform-sized Nanoparticles</i> Taeghwan Hyeon Seoul National University, South Korea					
1030	Morning Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM F Nanocomputation	SYMPOSIUM G Health & Safety
	John Batman Chair: Hui-Ming Cheng	You Yangs 1 & 2 Chair: Neville Fletcher	You Yangs 4 & 5 Chair: Hans Griesser	Corryong 1 & 2 Chair: Adam Micolich	Corryong 4 Chair: Mike Ford	Corryong 5 Chair: Greg Tegart

1100	<p><u>Invited Speaker</u> <i>The Synthesis and Properties of Er-Doped Silica Nanowires</i> Rob Elliman Australian National University, ACT</p>	<p><u>Invited Speaker</u> <i>Biocompatible Nanomaterials And Nanodevices Promising For Biomedical Applications</i> Michael Giersig Center Of Advanced European Studies And Research, Germany</p>	<p><u>Invited Speaker</u> <i>Amphiphile Self-Assembly Materials in Nanomedicine</i> Calum Drummond CSIRO Materials Science & Engineering, VIC</p>	<p><u>Invited Speaker</u> <i>Magnetoresistance studies of sub-micrometer constriction devices of GaMnAs films</i> Uzma Rana University Of Cambridge, UK</p>	<p><u>Invited Speaker</u> <i>Mechanisms of Atomic-Scale Friction at Interfaces: Role of Atomistic Simulations</i> Susan Sinnott University of Florida, USA</p>	<p><u>Invited Speaker</u> <i>Are we driving blind into a nanotech future? Rising to the challenges of developing safe nanotechnologies.</i> Andrew Maynard Woodrow Wilson International Center For Scholars, USA</p>
1130	<p><i>Silicon Nanowires Photodiodes</i> Kai Lin Foo NTU/IME/CHRT, Singapore</p>	<p><i>Synthesis of Hollow Gold Nanoparticles and Rings Using Silver Templates</i> Jonathan Edgar University Of Technology, NSW</p>	<p><i>Intracellular processing and transport of nano-structures in breast cancer cells</i> Devika Chithrani University Health Network, Canada</p>	<p><i>Hole Transport In Undoped One-dimensional Quantum Wires</i> Oleh Klochan UNSW, NSW</p>	<p><i>Melting Of Graphite-supported Palladium Nanoparticles: A Molecular Dynamics Study</i> Dmitri Schebarchov New Zealand</p>	<p><i>Nanosafety Challenges and Opportunities for Australian Nanotechnologies</i> Paul Wright RMIT University/ NanoSafe Australia, VIC</p>
1145	<p><i>Germanium Nano-necklaces And Nano-sheaths Upon Multi-walled Carbon Nanotubes</i> Chris Bumby Victoria University Of Wellington, New Zealand</p>	<p><i>The Characterization of Surface Morphology of N-Type GaN after Photoelectrochemical Wet Etching</i> Ying-Chih Chen Cheng Kung University, Taiwan</p>	<p><i>Engineering Materials for Targeted Drug Delivery</i> Angus Johnston University Of Melbourne, VIC</p>	<p><i>Anomalous spin splitting in hole nanowires</i> Dan Csontos Massey University, New Zealand</p>	<p><i>Carbon Molecules Oscillating in Carbon Nanotube Bundles</i> Ngamta Thamwattana University Of Wollongong, NSW</p>	<p><i>Nano foods: a small problem is becoming bigger</i> Rye Senjen Friends Of The Earth Australia, VIC</p>



Thursday 28 February (continued)

1200	<i>Freezing and Melting Behaviour of Gallium Confined in Carbon Nanotubes</i> Zhongwen Liu The University Of Sydney, NSW	<i>Selective growth of zinc oxide nanostructures by microcontact printing method</i> Ghim Wei Ho National University Of Singapore, Singapore	<i>Development of Micellar and Microemulsion Formulation of Paclitaxel</i> Bing-Hung Chen National Cheng Kung University, Taiwan	<i>Coupling of electron quantum interference effects in arrays of hard-walled semiconductor cavities</i> Theodore Martin University Of New South Wales, NSW	<i>Graphene for a new generation of gas sensors: insights from first principle calculations</i> Xiaolin Wang University Of Wollongong, NSW	<i>Networking Resources for Research and Scientific Education in Bioscience and Nanotechnologies</i> Olivier Pfeiffer Technische Universität Berlin, Germany
1215	<i>Bringing Carbon Nanotubes to Order</i> Simon Moulton University Of Wollongong, NSW	<i>Molecular assembly of calixarenes with potential applications in nanobiotechnology</i> Mohamed Makha The University Of Western Australia, WA	<i>Iron Oxide Nanoparticles - Gene Delivery In Mammalian Cells</i> Maria Arsianti University Of New South Wales, NSW	<i>Structure And TMR Properties Of The Junctions Using Co-Based Full-Heusler Alloy Electrodes</i> Koichiro Inomata National Institute For Materials Science, Japan	<i>Molecular Dynamics Study Of The Formation Of Carbon Onions Within Carbon Nanofoam</i> Desmond Lau RMIT University, VIC	<i>The UWS Nanotechnology Network: Learning about nanotechnology together with industry, schools and others</i> Kim Leevers University Of Western Sydney, NSW
1230	Lunch Sponsored by Dyesol					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM F Nanocomputation	SYMPOSIUM G Health & Safety
	John Batman Chair: Rob Elliman	You Yangs 1 & 2 Chair: Michael Giersig	You Yangs 4 & 5 Chair: Calum Drummond	Corryong 1 & 2 Chair: Uzma Rana	Corryong 4 Chair: Susan Sinnott	Corryong 5 Chair: Joe Shapter

1330	<p><u>Invited Speaker</u> <i>Liquid phase synthesis of nanoparticles</i> Richard Tilley School Of Chemical And Physical Science, New Zealand</p>	<p><u>Invited Speaker</u> <i>Carbon Nanotube Field Emitters: Properties and Applications</i> Yahachi Saito Nagoya University, Japan</p>	<p><u>Invited Speaker</u> <i>Mesoporous silicon photonic crystals: tools for biology and medicine</i> Justin Gooding University Of New South Wales, NSW</p>	<p><u>Invited Speaker</u> <i>Inkjet printing: a viable tool for processing polymer carbon nanotube composites</i> Marc In Het Panhuis University Of Wollongong, NSW</p>	<p><u>Invited Speaker</u> <i>Modelling of the Structure and Growth of Gold Nanoparticles</i> Ian Snook RMIT University, VIC</p>	<p><u>Invited Speaker</u> <i>Determining Nanosafety In The Workplace With Emphasis On Stable Isotope Tracing</i> Brian Gulson Macquarie University and CSIRO(CMSE), VIC</p>
1400	<p><i>Fabrication and Characterization of Multi-walled Carbon Nanotubes – Polymethyl Methacrylate Composites</i> Rakesh Mathur National Physical Laboratory, India</p>	<p><i>Surface Nanostructures Fabricated by Dip-Pen Nanolithography</i> Hua Zhang Nanyang Technological University, Singapore</p>	<p><i>Signal amplification approaches for porous silicon biosensors</i> Nicolas Voelcker Flinders University, SA</p>	<p><i>Mixed assembly of ferrocene/ porphyrin onto carbon nanotube arrays towards multibit information storage</i> Jingxian Yu Flinders University, SA</p>	<p><i>Dispersion forces between nanotubes and other low-dimensional structures</i> John F Dobson Griffith University, QLD</p>	<p><i>Zinc oxide nanoparticle absorption using the stable isotopic tracing method</i> Herbert Wong Macquarie University, NSW</p>
1415	<p><i>The Chemical Synthesis Of Graphene</i> Mohammad Choucair University Of New South Wales, NSW</p>	<p><i>Modification of Carbon Nanotube Architectures for Alternative Energy Applications</i> Andrew Minnett University of Wollongong, NSW</p>	<p><i>Detection of Unlabelled Oligonucleotide Targets Using Whispering Gallery Modes in Single, Fluorescent Microspheres</i> Edin Nuhiji University Of Melbourne, VIC</p>	<p><i>Ordering of Ge Quantum Dots on Silicon surfaces via bottom-up and top-down approaches</i> Marco Bernardi Queensland University Of Technology</p>	<p><i>Hybrid Kinetic Monte Carlo-Molecular Dynamics Modelling in Epitaxial Growth</i> Peter Zootjens Industrial Research, New Zealand</p>	<p><i>Aquatic Ecotoxicology Of Zinc And Cerium Oxide Nanoparticles</i> Simon Apte CSIRO, NSW</p>



Thursday 28 February (continued)

1430	<i>Joining a carbon nanotube and a grapheme sheet</i> Duangkamon Baowan University Of Wollongong, NSW	<i>The Effects of Nanosized Cadmium Sulfide Attached to Poly(methacrylic acid-ethylene glycol dimethacrylate) on Its Dielectric Properties</i> Hadi Nur Universiti Teknologi Malaysia, Malaysia	<i>Carbon Nanotube Amperometric Biochips With Micro Multi-Pumps</i> Yuichi Tsujita Osaka University, Japan	<i>Bioconjugates for bioelectronics and biofuel cells</i> Joshua Peterson University Of Sydney, NSW	<i>Divide-and-Conquer Density Functional Theory within SIESTA</i> Burak Cankurtaran University Of Technology, NSW	<i>Synthesis and characterisation of clay nanoparticles for nanotoxicological investigations</i> Anthony Musumeci University Of Queensland, QLD
1445	<i>Synthesis and Application of Aqueous Dispersions of Graphene Nanosheets</i> Dan Li University Of Wollongong, NSW	<i>The Structure of Free Clusters Studied by Photoelectron Spectroscopy</i> Wandared Pokapanich Uppsala University, Sweden		<i>Non Volatile Ferroelectric Polymer Memory Based on Beta Poly(vinylidene fluoride) Thin Films via Rapid Thermal Annealing</i> Cheolmin Park Yonsei University, Korea	<i>van der Waals forces of many-layered vs few layered graphitic systems</i> Tim Gould Griffith University, QLD	<i>Importance of Sample Preparation for In Vitro Cytotoxicity Evaluation of Silver Nanoparticles</i> Clint Johnson University Of Western Australia, WA
1500	Afternoon Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM D Nanophotonics	SYMPOSIUM C Nanoelectronics	SYMPOSIUM F Nanocomputation	SYMPOSIUM G Health & Safety
	John Batman Chair: Richard Tilley	You Yangs 1 & 2 Chair: Yahachi Saito	You Yangs 4 & 5 Chair: Justin Gooding	Corryong 1 & 2 Chair: Marc In Het Panhuis	Corryong 4 Chair: Ian Snook	Corryong 5 Chair: Paul Wright

1530	<i>Electronic transport in transparent, conducting Carbon Nanotube films</i> Shrividya Ravi Victoria University Of Wellington, New Zealand	<i>Preparation and characterization of high-performance nitrogen-enriched carbons for supercapacitors</i> Denisa Jurcakova University Of Queensland, QLD	<i>Defect-free GaAs nanowires: growth, structure and optical properties</i> Hannah Joyce Australian National University, ACT	<i>Finding Chemical Traits In Molecular Conductance</i> Gemma Solomon Northwestern University, USA	<i>Quantum filters: is equilibrium selectivity governed by the membrane's Pore Shape?</i> Piotr Kowalczyk University Of Queensland, QLD	3 X 10 MINUTE PRESENTATIONS <i>NanoSafe Australia: Identifying and Addressing the Potential for Nanotoxicity in Australia</i> Paul Wright RMIT University / NanoSafe Australia, VIC <i>Green Chemistry Solutions to Nanotoxicology</i> Colin Raston University of Western Australia, WA <i>Risk Perception and Risk Communication: Is Nanotechnology at the Crossroads in Australia?</i> Brian Priestly Australian Centre For Human Health Risk Assessment, VIC PANEL DISCUSSION Paul Wright Colin Raston Brian Priestly Vicki Colvin Andrew Maynard
1545	<i>A novel way of self-assembly into nanotubes by δ-stacking interactions in poly(styrene alt. maleimide) copolymers</i> Theo van de Ven McGill University, Canada	<i>Confinement-induced Enhancement of Diffusiophoretic Forces on Self-Propellers</i> Mihail Popescu Ian Wark Research Institute, SA	<i>Electrical study of memory effects in InAs quantum dots embedded in SiO2 on silicon substrates</i> Abdelkader Souifi INL-INSA De Lyon, France	<i>Nanoparticle attachment to a nanoSQUID</i> Wenrong Yang University of Sydney, NSW	<i>Molecular dynamic calculations of interactions between LDH and DNA bio-nanocomplex</i> Pierre Tran University Of Queensland, QLD	
1600	<i>Use of Pre-defined Architectures For Incorporation of Aligned Carbon Nanotubes Into Epoxy Resin</i> Barry Halstead La Trobe University, VIC	<i>Nanolayer Effects in Cooling Performance of a Microchannel Heat sink with Nanofluids</i> Sadollah Ebrahimi Islamic Azad University, Iran	<i>Characterisation of Alumina and Titania Films Grown by Atomic Layer Deposition</i> Nemo Bilus Abaffy RMIT, VIC	<i>Synthesis of New Artificial Photosynthesis Systems</i> Katrine Qvortrup University Of Copenhagen, Denmark	<i>First Principle Studies of the Role of Charge on the Destabilization of NaAlH₄</i> Aijun Du University Of Queensland, QLD	
1615	<i>Field Emission From Aligned Single Walled Carbon Nanotubes Chemically Attached to N-Type Silicon</i> Cameron Shearer Flinders University	<i>Template Synthesis of Porous Metal Oxides for Metal Ion Separations</i> Glenna Drisko University Of Melbourne, VIC	<i>Intermixing of GaAs/AlGaAs quantum wells with silica films deposited by magnetron sputtering</i> Ian McKerracher Australian National University, ACT	<i>The fundamentally low efficacy of molecular diodes</i> Mike Ford University Of Technology, NSW	<i>Optimized QM/MM Capping Potentials for The Calculation of Electronic Linear Response Properties</i> Sittipong Komin Max-Planck-Institute For Polymer Research, Germany	
1630	<i>Fabrication and Magnetic Properties of Electropun Fe₃O₄-filled Carbon Nanofibers</i> Wittawat Saenrank Khonkaen University, Thailand	<i>Metrology for nanotechnology</i> Asa Jamting National Measurement Institute, NSW	<i>InP and GaAs Single Nanowires: Photoluminescence and Exciton Dynamics</i> Howard Jackson University Of Cincinnati, USA	<i>Transport Properties of One-Dimension Nanosystems for Application in Molecular Electronics</i> Rodion Belosludov Tohoku University, Japan	<i>Study Of Kinetic Restriction Of Simple Gases In Porous Carbons Using Transition State Theory</i> Thanh Nguyen University Of Queensland, QLD	

Thursday 28 February (continued)

1645	Sessions conclude	<p><u>Invited</u> <i>Modeling The Size, Shape And Stability of Imperfect Nanostructures</i> Amanda Barnard Oxford University, United Kingdom</p>	
1645 - 1845	Happy Hour / Poster Session & Viewing Venue: You Yangs 6	Sponsored by the National Health and Medical Research Council of Australia	
1800 - 2000	Public Forum: BIG Issues About Small Technologies – an opportunity to hear the community's views about nanotechnology issues <i>Sandwiches and drinks provided at 1730</i> Sponsored by The Australian Office of Nanotechnology Venue: You Yangs 1 & 2		

Friday 29 February

0800	Registration Venue: Registration Desk, Level 2	Speakers' Support Centre Venue: John Batman Suite 1, Level 3				
	PLENARY SESSION 4 Venue: Latrobe Theatre Chairs: Min Gu and Frank Caruso					
0850	Introduction					
0900	<i>Novel Devices Based on Multifunctional ZnO and Its Nanostructures</i> Yicheng Lu Rutgers University, USA					
0945	<i>Bioactive Nanostructures for Regenerative Medicine and Cancer Therapies</i> Samuel Stupp Northwestern University, USA					
1030	Morning Tea					
	SYMPOSIUM A1 Nanomaterials 1	SYMPOSIUM A2 Nanomaterials 2	SYMPOSIUM B Nanobiotechnology	SYMPOSIUM C Nanoelectronics	SYMPOSIUM F Nanocomputation	SYMPOSIUM G Health & Safety

	Latrobe Theatre Chair: Lianzhou Wang	You Yangs 1 & 2 Chair: Alan Wilson	You Yangs 4 & 5 Chair: Patrick Hartley	Corryong 1 & 2 Chair: Chennupati Jagadish	Corryong 4 Chair: Julian Gale	Corryong 5 Chair: Susan Dodds
1100	<u>Invited Speaker</u> <i>Development of nano/micro-structured materials for energy storage and conversion</i> Hui-Ming Cheng Shenyang National Laboratory for Materials Science, Institute of Metal Research, Chinese Academy of Sciences, China	<u>Invited Speaker</u> <i>Photocatalytic Nanofibres</i> Michael Cortie University Of Technology Sydney, NSW	<u>Invited Speaker</u> <i>Plasma Fabrication of Microarray Surfaces for Covalent Protein Binding onto Aldehyde and Epoxy Groups</i> Hans Griesser University of South Australia, SA	<i>Study of current-voltage characteristics of Ge₂Sb₂Te₅ nanoparticle-clusters for high density non-volatile memory</i> William Jo Ewha Womans University, Korea	<u>Invited Speaker</u> <i>Non radiative decay processes in nanocrystals: is the Auger model consistent with experiment?</i> Marco Califano Leeds University, UK	<i>Nature and nanotechnology: science, ideology and policy</i> Fern Wickson University Of Bergen, Norway
1115				<i>Nonvolatile Memory with High Density Silicon Nanocrystal Formed on Nitrided Tunnel Oxide</i> Yung-Hsien Wu National Tsing-Hua University, Taiwan		<i>When Is The Right Time? Emerging Discourse And Upstream Public Engagement For Nano Science And Technology In Norway</i> Kamilla Kjølberg University Of Bergen, Norway
1130	<i>Production, Properties, and Applications of Spun Carbon Nanotube Yarns and Knitted Tubes</i> Ken Atkinson CSIRO Textile & Fibre Technology, VIC	<i>New Materials for Hydrogen Storage: Al Nanostructures</i> Irene Yarovsky RMIT University, VIC	<i>Nanomechanics, chemistry and structure at the dental enamel interface</i> Michelle Dickinson Hysitron Inc, USA	<i>Fabrication of Vertically Aligned Carbon Nanotube-based Microelectrode arrays</i> Xianming Liu University Of Canterbury, New Zealand	<i>A Density Functional Theory Comparison of ZnO Nanorod Surfaces for Gas Sensing of Nitrous Oxides</i> Michelle Spencer RMIT University, VIC	<i>Processes for public deliberation on the ethics of enhancement technologies and bionics</i> Renee Kyle University Of Wollongong, NSW



1145	<i>Stress-Strain Analysis of Multi-walled Carbon Nanotube under Radial Pressure</i> Mahdi Kasraei Shiraz University, Iran	Nanowire Growth Governed by Thermodynamics and Kinetics Yanan Guo University Of Queensland, QLD	<i>Investigating the protein repellent nature of biomedical plasma polymer thin films</i> Donna Menzies CSIRO-CMHT, VIC	<i>Chemical order-induced exchange bias in epitaxial FePt₃ layers</i> Michael James ANSTO, NSW	<i>First Principle Study Of Hydrogen And Nanostructure Interactions</i> Hong Zhang University Of Queensland, QLD	<i>Ethics and the governance of nanoscience and nanotechnology</i> John Weckert Charles Sturt University, ACT
1200	<i>Suppression of Current Fluctuations in Carbon Nanotube Field-Effect Transistors by Applying Alternating Currents</i> Yasuhide Ohno Osaka University, Japan	<i>Heat front waves in optical fibres</i> Nail Akhmediev Australian National University, ACT	<i>Rational Manipulation and Characterisation of Nanoassembled Multilayer Films</i> Ping Peng CSIRO, VIC		<i>Structural Properties Of Ge_n Clusters (n=2-10)</i> Hitesh Sharma RBIEBT, India	<i>Regulating Nanotechnology In Antarctica</i> Alan Hemmings University Of Canterbury, ACT
1215	<i>Synthesis Of Hydrogen And Chained Onion-like Carbon By The Catalytic Decomposition Of Methane</i> Andrew Cornejo University of Western Australia, WA	<i>Subcritical water as a novel processing medium for the manufacturing of micronized biomaterials</i> Adam Carr UNSW, NSW	<i>Laminin at Homogeneous and Nanopatterned Interfaces - Protein Layer Quantification and Influence of Protein Presentation on Neural Progenitor Cells</i> Jenny Malstrom University Of Aarhus, Denmark		<i>Ab-initio calculations of Xe-based optical centres in diamond</i> Daniel Drumm University Of Melbourne, VIC	
1230	Sessions conclude					
1300 – 1600	Tour of Australian Synchrotron Buses depart outside convention centre from 1230					