ISE Satellite Student Regional Symposium on Electrochemistry		
Monday 25 <sup>th</sup> November 2013		
8:00 - 8:30	Registration for the ISE Satellite Student Regional Symposium on Electrochemistry and the 19 <sup>th</sup> Australia/New Zealand Electrochemistry Symposium ( <i>Location: Foyer, Ian Wark Theatre Reception</i> )	
8:30 - 8:40	Welcome address – <b>Prof. Alan Bond</b> on behalf of the organizing committee and <b>Prof.</b> <b>Steven Langford</b> on behalf of School of Chemistry/Monash University	
8:40 - 8:45	Opening Remark for the ISE sponsored student conference – Mr. Cameron Bentley	
	Plenary lecture – Chair: Mr. Cameron Bentley	
8:45 – 9:15	<b>Prof. Julie Macpherson</b> (Warwick University), When is it is best to use conducting diamonds in electrochemical research	
	Session 1 – Chair: Ms. Kiran Bano	
9:15 - 9:30	<b>Mr. Cameron Bentley</b> (Monash University / CSIRO), Applications of semiintegral and convolution voltammetry in analytical electrochemistry	
9:30 – 9:45	<b>Ms. Yafei Zhang</b> (Deakin University), Low-toxic ionic liquid as a means to control the corrosion of magnesium alloys in simulated body fluids	
9:45 – 10:00	<b>Mr. Asim Khan</b> (UNSW), The Oxygen Reduction Reaction in Room Temperature Protic Ionic Liquids	
10:00 - 10:15	<b>Ms. Junqiao Lee</b> (Curtin University), Polishing of platinum screen printed electrodes improves its performance for oxygen sensing in room-temperature ionic liquids.	
10:15 - 10:30	<b>Mr. David Bower</b> (Latrobe University), Co-reactant electrogenerated chemiluminescence (ECL) from carbon dioxide in ionic liquids	
10:30 - 10:45	<b>Mr. Ciaran McDonnell-Worth</b> (Monash University), Protic Ionic Liquids for Electrochemical Hydrogen Peroxide Production	
10:45 - 11:00	Coffee / Morning Tea (Location: Canteen / Tea Room)	
	Session 2 – Chair: Mr. Bradley Stringer	
11:00 - 11:15	<b>Ms. Yuping Liu</b> (Monash University), Voltammetric Determination of the Reversible Potentials for $[{Ru_4O_4(OH)_2(H_2O)_4}(\gamma-SiW_{10}O_{36})_2]^{10}$ over the pH range of 2 to 12: Electrolyte Dependence and Implications for Water Oxidation Catalysis	
11:15 - 11:30	<b>Ms. Madeleine Dupont</b> (University of Newcastle), Electrodeposited Thin Film Carbon Electrodes For Use In Electrochemical Capacitors	
11:30 - 11:45	<b>Mr. Xunyu Lu</b> (UNSW), High Performance Co-Based Composite Catalysts for Sustained Electrochemical Oxygen Evolution	
11:45 - 12:00	<b>Mr. Kalib Bell</b> (University of Canterbury), Increased Capacitance of Electrodeposited $MnO_2$ After Modification With Diazonium Salts	
12:00 - 12:15	<b>Mr. Erwin Rodriguez</b> (University of Melbourne / CSIRO), Properties of Monodisperse Mesoporous Anatase Beads on Lithium Ion Batteries	
12:15 - 12:30	<b>Mr. Wesley Dose</b> (University of Newcastle), Optimizing the Thermal Synthesis of Lithiated Manganese Dioxide, Li <sub>0.33</sub> MnO <sub>2</sub> , for Li-ion Batteries	
Bond Medallist Lecture – Chair: Prof. Alan Bond		
12:30 - 1:00	<b>Dr. Debbie Silvester-Dean</b> (Curtin University), Electrochemical Detection of Gases on Screen-Printed Electrodes in Ionic Liquids: Advantages and Challenges	
1:00 - 2:00	Lunch and poster session (Location: Canteen / Tea Room)	

Plenary lecture – Chair: Mr. Cameron Bentley		
2:00 - 2:30	<b>Prof. David Williams</b> (Auckland University), From sensors to systems to networks for air quality measurement: a tale of science and commercialisation	
Session 3 – Chair: Mr. Muhammad Abdelhamid		
2:30 - 2:45	<b>Ms. Kiran Bano</b> (Monash University), Application of a novel internal reference concept for the reliable determination of the kinetics of fast electron transfer processes using Fourier transformed large amplitude ac voltammetry	
2:45 - 3:00	Mr. Moinul Choudhgury (UNSW), Electroactive Monolayers on n-Type Silicon	
3:00 - 3:15	<b>Mr. Bradley Stringer</b> (Latrobe University), Photophysical and Electrochemical properties of Iridium N-Heterocyclic Carbene complexes	
3:15 - 3:30	<b>Mr. Thomas Somerville</b> (Macquarie University), Dependence of Electrochemical Characteristics of Graphene Modified Electrodes on Oxygen-containing Groups Arising from the Synthetic Routes	
3:30 - 3:45	<b>Ms. Manika Mahajan</b> (RMIT University), Fabrication of CuTCNQF <sub>4</sub> /Au nanoparticle composites and their photocatalytic applications	
3:45 - 4:00	Coffee / Afternoon Tea (Location: Canteen / Tea Room)	
	Session 4 – Chair: Ms. Jacqui Delaney	
4:00 – 4:15	<b>Ms. Devi Liana</b> (UNSW / CSIRO), Cysteine-Modified Sintered Gold Electrodes on Paper as a Low Cost Electrochemical Sensor	
4:15 - 4:30	<b>Mr. Muhammad Abdelhamid</b> (RMIT / CSIRO), Electropolymerisation of polyaniline nanofibres and their decoration with metal nanoparticles for gas sensing	
4:30 - 4:45	<b>Ms. Eva Alvarez de Eulate</b> (Curtin University), Electrochemical protein pre- concentration at the gelled liquid – liquid interface followed by mass spectrometry via electrostatic spray ionization	
4:45 - 5:00	<b>Mr. Shahid Hussain</b> (Monash University), Noncovalent Functionalization of Multiwalled Carbon Nanotubes with Sulfite Oxidase for Amperometric Detection of Sulfite	
5:00 - 5:15	Mr. Alireza Dibaji (Deakin University), A Biomimetic Sensor for the Detection of Metal Ions	
5:15 - 5:30	<b>Ms. Roya Tavallaie</b> (UNSW), An Electrochemical Biosensor for Selective Detection of MicroRNA	
Poster Session		
5:30 - 6:30	Poster session, drinks and mixer (Location: Canteen / Tea Room)	
6:30 -	Symposium Dinner – Location: onsite at CSIRO	

19 <sup>th</sup> Australia/New Zealand Electrochemistry Symposium (19ANZES)		
Tuesday 26 <sup>th</sup> November 2013		
Plenary lecture – Chair: Dr. Jie Zhang		
8:45 - 9:15	<b>Prof. David Williams</b> (Auckland University), Synchrotron X-ray studies of the formation of protective scales of siderite on steel surfaces during corrosion in CO <sub>2</sub> -saturated brine at elevated temperature	
	Session 1 – Chair: Prof. Alan Bond	
9:15 - 9:30	<b>Prof. Alison Downard</b> (University of Canterbury), Reduction of Diazonium Ions at Highly Ordered Pyrolytic Graphite: an Electrochemical and Scanning Probe Microscopy Investigation	
9:30 – 9:45	<b>Dr. Si-Xuan Guo</b> (Monash University), Graphene supported molecular and nano- catalysts for Highly Efficient Electrocatalytic Water Oxidation	
9:45 - 10:00	<b>Dr. Janjira Panchompoo</b> (UNSW), Carbon Black Nanoparticles: Surface Modification, Characterisation and Potential Applications	
10:00 - 10:15	<b>Prof. Jingquan Liu</b> (Qingdao University), Electrochemical applications of $\pi$ - $\pi$ stacking modified graphene	
10:15 - 10:30	<b>Dr. Paula Brooksby</b> (University of Canterbury), Unusual Electrochemistry from Ferrocene Terminated Monolayer Films on Glassy Carbon: Effects Originating from the Electrical Double Layer	
10:30 - 10:45	Coffee / Morning Tea (Location: Canteen / Tea Room)	
	Session 2 – Chair: Prof. Doug Macfarlane	
10:45 - 11:00	<b>Dr. Shu-Feng Zhao</b> (Monash University / CSIRO), Electrocarboxylation of acetophenone in ionic liquids	
11:00 - 11:15	<b>Dr. Leigh Aldous</b> (UNSW), Correlating the electrochemical and thermal stability of ionic liquids in contact with (electro)catalytic substrates	
11:15 - 11:30	A/Prof. Damien Arrigan (Curtin University), Electrochemistry at Water   Ionic Liquid Interfaces: Proteins to Protons	
11:30 - 11:45	<b>Dr. Naoki Tachikawa</b> (Monash University), Electrochemical properties and proton activities of protic ionic liquids	
11:45 - 12:00	<b>Dr. Chuan Zhao</b> (UNSW), Robust and Versatile 'Wall-less' Microreactor Achieved by Microcontact Printing of Ionic Liquids	
	Session 3 – Chair: Dr. Conor Hogan	
12:00 - 12:15	<b>Dr. Shanqing Zhang</b> (Griffith University), Mesoporous graphene nanocomposite: anchoring mechanisms and superior rate performance as anodes for lithium-ion batteries	
12:15 - 12:30	<b>Dr. Michael Mucalo</b> (University of Waikato), A combined IR spectroelectrochemical and EXAFS/XANES study of the speciation from Ni electrodes anodically polarized in cyanate-, thiocyanate- and selenocyanate-containing solutions of dimethyl formamide (DMF) and dimethyl sulfoxide (DMSO)	
12:30 - 12:45	<b>Dr. Muhammad Alam</b> (UNSW), Understanding the Complexities of Electrochemical Impedance Spectroscopy using In-Situ Synchrotron Radiation Grazing Incidence X-Ray Diffraction	
12:45 - 1:00	<b>Dr. Manzar Sohail</b> (University of the Sunshine Coast), Transport and Accumulation of Redox Compounds at the Buried Interfaces of Plasticized Membrane Electrodes	

1:00 - 2:00	Lunch (Location: Canteen / Tea Room)	
Plenary lecture – Chair: Dr. Jie Zhang		
2:00 - 2:30	<b>Prof. Julie Macpherson</b> (Warwick University), The Importance of Electrode Design Architecture for the Use of Single Walled Carbon Nanotubes in Electrochemistry	
Session 4 – Chair: Mr. Mike Horne		
2:30 - 2:45	<b>Dr. Lathe Jones</b> (RMIT University), Electrodeposition at Extreme Cathodic Overpotential.	
2:45 - 3:00	<b>Dr. Michael Breedon</b> (CSIRO), In silico prediction of efficacy of small organic corrosion inhibitors	
3:00 - 3:15	<b>A/Prof. Mike Yongjun Tan</b> (Deakin University), Electrochemical Heterogeneity and Localized Electrode Processes: An Overview	
3:15 - 3:30	<b>Dr. Andrew Pearson</b> (RMIT University), Fabrication of metal nanoparticle modified semiconducting Cu-and AgTCNQ materials as effective substrates for the reduction of Cr(VI) ions using environmentally friendly thiosulphate ions at ambient temperature	
Session 5 – Chair: Dr. Anthony O'Mullane		
3:30 - 3:45	<b>Dr. Muhammad Shiddiky</b> (University of Queensland), Molecular <i>Nanoshearing</i> : An Innovative Approach to Shear off Molecules with AC-Induced Nanoscopic Fluid Flow	
3:45 - 4:00	<b>Dr. Conor Hogan</b> (Latrobe University), Sensing for Cents: Mobile Phone based Sensing at Close to Zero Cost	
4:00 - 4:15	<b>Dr. Da Li</b> (Deakin University), Towards Electrochemical Detection of Single Molecules <i>via</i> Nanoparticle-Electrode Collisions	
4:15 - 4:30	<b>Dr. Alexandr Simonov</b> (Monash University), Probing the kinetics of electron transfer in glucose oxidase immobilized on advanced carbon supports	
4:30	Closing Remarks	