

**SYMPOSIUM PROGRAM**

**Monday 11<sup>th</sup> – Wednesday 13<sup>th</sup> February 2019**

<b>Registration–The Pier Geelong Waterfront</b>	
<b>Monday 11<sup>th</sup> February 2019</b>	
<b>8:00</b>	<b>Registration</b>
<b>9:00</b>	<b>Welcome Remarks</b> <b>Prof. Maria Forsyth and A/Prof. Jenny Pringle</b>
<b>9:05</b>	<b>Opening Remarks</b> <b>Deakin University Vice Chancellor Prof. Jane den Hollander</b>
<b>9:15</b>	<b>Prof. Gordon Wallace</b>
	<b>Chair: Prof. Maria Forsyth</b>
<b>9:20</b>	<b>A/Prof Leigh Johnston (Plenary)</b> Biomedical Engineering, The University of Melbourne, Australia <i><u>Efficient magnetic resonance imaging of sodium in the brain</u></i>
<b>9:50</b>	<b>Dr. Tamar Greaves</b> School of Science Cluster, Department of Physics, RMIT University, Australia <i><u>High throughput and machine learning approaches in the characterisation of neat ionic liquids and their mixtures</u></i>
<b>10:10</b>	<b>Dr. Anthony Burrell</b> Electrochemical Energy Storage, Oklahoma State University <i><u>Silicon Anodes: Where to Next?</u></i>
<b>10:30</b>	<b>Prof Zaiping Guo</b> Institute for Superconducting & Electronic Materials, University of Wollongong, Australia <i><u>Advanced Electrode Materials for Metal-ion Batteries</u></i>
<b>10:50</b>	<b>Morning tea</b>
	<b>Chair: Prof. Simon Moulton</b>
<b>11:20</b>	<b>Dr. Alex Harris</b> The University of Melbourne, Australia <i><u>Electrochemical Methods for Analysing and Controlling Charge Transfer at the Electrode-Tissue Interface ~ and their Application to Cochlear Implant Electrode Arrays</u></i>
<b>11:40</b>	<b>Dr Ben Sherlock</b> Living Systems Institute, University of Exeter <i><u>Translating microscopy from bench-to-bedside: developing multiphoton microscopes for in vivo assessment.</u></i>
<b>12:00</b>	<b>Dr. Kyle Wedgwood</b> Centre of Biomedical Modelling and Analysis, University of Exeter, UK <i><u>Blueprints for islets: using mathematics to design islets</u></i>
<b>12:20</b>	<b>Dr. Adrian Panow</b> Director of Energy Deakin University, Australia <i><u>The Deakin Waurin Ponds Microgrid</u></i>

12:40	<b>Lunch</b>
	<b>Chair: Dr. Xiaoen Wang</b>
1:40	<b>Prof Mauricio Isaacs Casanova</b> Pontificia Universidad Catolica de Chile <i>Copper (i) oxide and copper nanostructures modified electrodes for the electrochemical reduction of carbon dioxide</i>
2:00	<b>Dr. Nikhil Medhekar</b> Department of Materials Engineering, Monash University, Australia <i>In Silico Materials Design for Next Generation Batteries</i>
2:20	<b>Prof. Alexei Sokolov</b> Department of Chemistry, University of Tennessee, USA <i>Mechanisms of Ionic Conductivity in Polymer Electrolytes</i>
2:40	<b>Dr. John Chiefari</b> CSIRO, Australia <i>The use of controlled free radical polymerisation to prepare novel polymerised ionic liquid block copolymers as solid polymer electrolytes</i>
3:00	<b>Afternoon tea</b>
	<b>Chair: Dr. Luke O'Dell</b>
3:30	<b>Prof. Kondo-Francois Aguey-Zinsou (Plenary)</b> Materials Research Laboratory in Nanaoscale, University of New South Wales, Australia <i>Designing better hydrogen storage materials</i>
4:00	<b>Prof. Melanie Britton</b> School of Chemistry, University of Birmingham, UK <i>In Operando Visualization of Battery Chemistry by Magnetic Resonance Imaging.....Turning the heroic into routine.</i>
4:20	<b>Dr. Shanqing Zhang</b> Centre for Clean Environment and Energy, School of Environment and Science, Gold Coast Campus, Griffith University, QLD, Australia <i>Confining SI and S in polymer composite frameworks for Li Ion batteries</i>
4:40	<b>Prof. Aninda Jiban Bhattacharyya</b> Indian Institute of Science, Bengaluru, India <i>Influence of Confinement on Molecular Properties and Function</i>
5:00	<b>Miss Molly Patton</b> Patton'd Studios <i>Science, Innovation and Creative Design</i>
5:15-7:00	<b>Poster Session</b>

Tuesday 12 <sup>th</sup> February 2019	
	<b>Dr. Danah Al-Masri</b>
9:00	<b>Dr. Cara Doherty (Plenary)</b> CSIRO, Melbourne Australia <i><u>Porous Materials for Energy Applications and Sensing Devices</u></i>
9:30	<b>Prof Min Gu</b> Research and Innovation, RMIT University, Melbourne Australia <i><u>Laser patterning in nanomaterials for nanophotonics</u></i>
9:50	<b>Dr. Cristina Pozo_Gonzalo</b> Institute for Frontier Materials, Deakin University, Australia <i><u>Carbon-based materials for air cathodes in Na-O<sub>2</sub> batteries</u></i>
10:10	<b>Prof. Dan Li</b> Chemical Engineering, University of Melbourne, Australia <i><u>When graphene meets electrolytes---From colloidal processing, energy storage to nanoionics</u></i>
10:30	<b>Morning tea</b>
	<b>Prof. Geoff Spinks</b>
11:00	<b>Prof. Mario Romero-Ortega</b> Department of Bioengineering, University of Texas at Dallas, USA <i><u>Bioelectronic Applications of Graphene Fiber electrodes</u></i>
11:20	<b>Prof. Jean Le Bideau</b> University of Nantes, France <i><u>UV-cured ionogels' host networks: effects of mesh size and ethylene oxide content.</u></i>
11:40	<b>Prof. Buzz Palmer</b> MedTech Innovator, Melbourne Australia <i><u>Entrepreneurship - the Great Australian Hippopotamus</u></i>
12:00	<b>Prof. Dermot Diamond</b> National Centre for Sensor Research, Dublin City University, Ireland <i><u>Materials Based Sensing and Control</u></i>
12:20	<b>Prof. Ray Baughman</b> University of Texas at Dallas, USA <i><u>Energy Harvesting, Energy Storing, and Actuating Yarns and Textiles</u></i>
12:40	<b>Lunch</b>
	<b>Dr. Anita Quigley</b>
1:40	<b>Prof. Lianzhou Wang</b> Australian Institute for Bioengineering and Nanotechnology, The University of Queensland, Australia <i><u>Designing Semiconductor Photoelectrodes for Integrated Photo-electrochemical Water Splitting</u></i>

2:00	<b>Dr. Nerea Casado Perez</b> POLYMAT, Donostia-San Sebastián, Spain <i><u>Poly(3,4-Ethylenedioxythiophene)Materials For Electrochemical Energy Storage</u></i>
2:20	<b>A/Prof. Drew Evans</b> Future Industries Institute, University of South Australia, SA <i><u>Anion interactions with vapour deposited PEDOT</u></i>
2:40	<b>Prof. Mia Woodruff</b> Science and Engineering Faculty, Queensland University of Technology, Brisbane, Australia Title and abstract TBC
3:00	<b>Afternoon tea</b>
	<b>A/Prof. Jenny Pringle</b>
3:30	<b>Prof. Austen Angell (Plenary)</b> School of Molecular Sciences, Arizona State University, USA <i><u>A new anion for ionic liquids and a new alkali cation conductor for lithium batteries</u></i>
4:00	<b>Prof. Kyoko Fujita</b> Department of Pathophysiology and School of Pharmacy, Tokyo University, Japan <i><u>Hydrated Ionic Liquid for the Re-naturation of Aggregated Proteins</u></i>
4:20	<b>Prof. Hwan Kyu Kim</b> Department of Advanced Materials Chemistry, Korea University <i><u>Carbon-based Nanomaterials for Superior Performance Dye-Sensitized Solar Cells</u></i>
4:40	<b>Prof. Richard Kaner</b> University of California, Los Angeles, USA <i><u>Conducting Polyaniline and Oligoanilines: Morphologies and Emergent Applications</u></i>
7:00	<b>Symposium Dinner at The Pier</b>

<b>Wednesday 13th February 2019</b>	
<b>ACES Showcase</b>	
<b>8:15</b>	<b>Welcome and Introduction</b> Prof. Gordon Wallace Director of ARC Centre of Excellence for Electromaterials Science
<b>8:30</b>	<b>Electromaterials</b> Theme Leader: Prof. David Officer
<b>9:00</b>	<b>Electrofluidics and Diagnostics</b> Theme Leader: Prof. Brett Paull
<b>9:30</b>	<b>Soft Robotics</b> Prof. Gursel Alici : Theme Leader
<b>10:00</b>	<b>Synthetic Energy Systems</b> Theme Leader : Prof. Doug Macfarlane
<b>10:30</b>	Morning tea
<b>11:00</b>	<b>Synthetic Bio Systems</b> Theme Leaders: Profs. Mark Cook / Rob Kapsa
<b>11:30</b>	<b>Ethics Policy Public Engagement</b> Theme Leader: Susan Dodds
<b>12:00</b>	<b>Certificate in Entrepreneurship Presentations</b>
<b>12:30</b>	<b>Symposium Closing – Prof. Maria Forsyth</b>
<b>1:00</b>	<b>Lunch</b>