

Sunday, February 18, 2024

	Track 1
13:00 - 17:00	<b>Registration Desk Opens - Sunday</b>
16:00 - 16:30	<b><u>Welcome to the 38th Australasian Polymer Symposium</u></b> by Assoc. Prof. Georgina Such, University of Melbourne
16:30 - 17:30	<b><u>Plenary Presentation 1   Professor Elizabeth Gillies, Western University</u></b> Design, synthesis, and applications of self-immolative polymers
17:30 - 18:00	<b><u>David Sangster Awardee   Assoc. Prof. Matthew Griffith, University of South Australia</u></b>
18:00 - 20:00	<b>Welcome Reception</b>

Monday, February 19, 2024

	Track 1	Track 2	Track 3	Track 4
8:00 - 17:45	<b>Registration Desk Opens - Monday</b>			
9:00 - 9:10	<b><u>Welcome to Day 1</u></b> by Assoc. Prof. Georgina Such, University of Melbourne			
9:10 - 10:00	<b><u>Plenary Presentation 2   Professor Bronwyn Fox, CSIRO</u></b>			
10:00 - 10:30	<b><u>Morning Refreshments &amp; Trade Exhibition - Monday</u></b>			
	<b>Polymer of Health - Monday</b>	<b>Advances in Polymer Synthesis and Characterisation - Monday</b>	<b>Polymers for Energy and Catalysis - Monday</b>	<b>Polymers for a Sustainable Future</b>
	<b>Keynote Speaker   Polymer of Health - Monday</b>	<b>Keynote Speaker   Advances in Polymer Synthesis and Characterisation - Monday</b>	<b>Keynote Speaker   Polymers for Energy and Catalysis - Monday</b>	<b>Keynote Speaker   Polymers for a Sustainable Future - Monday</b>
10:30 - 11:00	<b><u>Professor Martina Stenzel, University of New South Wales</u></b> The power of amino acids and sugar for the delivery of therapeutic drugs	<b><u>Assoc. Prof. Jiangtao (Jason) Xu, University of New South Wales</u></b> Hierarchical Polymer Design on Hydrogel Surfaces for Artificial	<b><u>Professor Jeffrey Pyun, University of Arizona</u></b> Polymerizations with Elemental Sulfur and Commodity Sulfur Chemicals for Next Generation Plastic Optics	<b><u>Dr Florian Graichen, Scion Research</u></b> The biggest adventure of humanity - linear to regenerative transition
11:00 - 11:15	<b><u>Thomas Jarrett, The University of Queensland</u></b> Using pH-responsive PEG cleavage to improve internalisation of cationic hyperbranched polymers into tumours	<b><u>Dr Laura Delafresnaye, Queensland University of Technology</u></b> Precision Photochemistry for Macromolecular Synthesis	<b><u>Dr Helene Rouault, CEA-Grenoble LITEN</u></b> PVdF based binders for gelled electrodes prepared with a dry process	<b><u>Dr He-Kuan Luo, Institute of Sustainability for Chemicals, Energy and Environment - A*STAR</u></b> The Application of Superbase for the Transformation of Sustainable Polymers
11:15 - 11:30	<b><u>Dr Simbarashem Jokonya, University of Washington</u></b> Development of a STING-activating polymer for cancer immunotherapy	<b><u>Professor Cyrille Boyer, The University of New South Wales</u></b> Fabrication of Nanostructured Materials through 3D Printing and Polymerization Induced Microphase Separation	<b><u>Dr Fangfang Chen, Deakin University</u></b> Poly(ionic liquid) Electrolytes for Solid-State Batteries	<b><u>Dr Samuel A. Smith, CSIRO</u></b> Continuous, Low Energy, Recycling of Plastics

11:30 - 11:45	<b>Yijun Xiong, University of Melbourne</b> <u>Bile-acid derived monomer and polymers as a broad-spectrum antimicrobial agent</u>	<b>Assoc. Prof. Hendrik Frisch, Queensland University of Technology</b> <u>The Interplay of Light with Bioinspired Macromolecular Architectures</u>	<b>Prof. Dr. Mukundan Thelakkat, University of Bayreuth</b> <u>Doping Strategies for Conjugated Polymers Toward Organic and Hybrid Thermoelectric Applications</u>	<b>Dr Eddie Wai Chi Chan, University of Auckland</b> <u>Polymer-based transient electronics via oligo-3-hexylthiophene grafted to degradable polymer backbone</u>
11:45 - 12:00	<b>Professor Michael Wolf, University of British Columbia</b> <u>Photocrosslinkable Antimicrobial and Antiviral Polymers for Modification of Textiles</u>	<b>Assoc. Prof. Stuart Thickett, University of Tasmania</b> <u>Polymerizable Eutectics for the Preparation of Functional Materials</u>	<b>Dr James Blinco, Queensland University of Technology</b> <u>A New Spin on Organic Radical Batteries</u>	<b>Dr Donya Ramimoghadam, CSIRO</b> <u>Recyclable-by-design polyurethane polymer via dynamic covalent bonds</u>
12:00 - 12:15	<b>Assoc. Prof. Richard Williams, Deakin University</b> <u>Phenotypic switch: Biomimetic hydrogels to direct the differentiation of bone marrow stromal cells via subtle changes in signalling environments</u>	<b>Professor Xiangcheng Pan, Fudan University</b> <u>Heteroatom Radical Controlled Polymerization</u>	<b>Professor Prashant Sonar</b>	<b>Ashwani Kumar, Australian National University</b> <u>Towards a Greener Future: Upcycling Coffee Waste for Sustainable Plastic Replacement</u>
12:15 - 12:30	<b>James Humphries, The University of Queensland</b> <u>Exploiting the specificity of anti-polymer immune responses for personalised medicines</u>	<b>Dr Daniel Eyckens, CSIRO</b> <u>High-Throughput Concurrent Synthesis of Core-Crosslinked star-Polydimethylsiloxane Using an Arm-First Approach</u>	<b>Pierre L. Stigliano, Deakin University</b> <u>PDADMATFSI-Poly(Vinyl Benzoate) Block Copolymers for Sodium Metal Battery Applications</u>	<b>Tomaž Pirman, Helios Resins</b> <u>A copolymerization approach to overcome the kinetic limitations of biobased itaconate radical polymerization</u>
			<b>Keynote Speaker Polymers for Energy and Catalysis - Monday</b>	
12:30 - 12:45	<b>Dr Katarzyna Nawrotek, Lodz University of Technology</b> <u>Automatic device for fabrication of conduits mimicking the regenerative microenvironment of the peripheral nervous system</u>	<b>Dr Joshua Holloway, Queensland University of Technology</b> <u>Up-Scalable Photochemical Synthesis of Polymer Microspheres</u>	<b>Dr Lauren Macreadie, UNSW</b> <u>Addressing hydrocarbon separations using MOFs as a bottom-up approach towards energy usage.</u>	<b>Brett Pollard, Australian National University</b> <u>Polymers from cellulosic waste: Direct polymerisation of levoglucosenone using DBU as a catalyst</u>
12:45 - 13:00	<b>Dr Cameron Evans, The University of Western Australia</b> <u>Polymer-mediated DNA delivery enables construction of spatially encoded 3D cultures</u>	<b>Dr Jochen Kammerer, Queensland University of Technology</b> <u>Atomic resolution imaging for the quantitative analysis of metal-functionalized single-chain nanoparticles (SCNPs)</u>	<b>Dr Lauren Macreadie, UNSW - Cont.</b> <u>Addressing hydrocarbon separations using MOFs as a bottom-up approach towards energy usage.</u>	<b>Dr Raquel Fernandes, Arcp Colab - Associação Rede De Competência Em Polímeros</b> <u>Tannin-based adhesives: how citric acid improve their performance?</u>
13:00 - 14:00	<b>Lunch &amp; Trade Exhibition - Monday</b>			
	<b>Polymer of Health - Monday cont.</b>	<b>Advances in Polymer Synthesis and Characterisation - Monday cont.</b>	<b>Polymers for Energy and Catalysis - Monday cont.</b>	<b>Polymers for a Sustainable Future - Monday cont.</b>
	<b>Keynote Speaker   Polymer of Health - Monday cont.</b>	<b>Keynote Speaker   Advances in Polymer Synthesis and Characterisation - Monday cont.</b>	<b>Keynote Speaker   Polymers for Energy and Catalysis - Monday cont.</b>	<b>Keynote Speaker   Polymers for a Sustainable Future - Monday cont.</b>

14:00 - 14:30	<b>Dr Amanda Pearce, Loughborough University</b> <u>Understanding structure-activity relationships of polymeric nanoparticles in biological applications</u>	<b>Dr Jennifer Garden, University of Edinburgh</b> <u>Multimetallic Cooperativity: From Catalysts to Copolymers</u>	<b>Assoc. Prof. Zhongfan Jia, Flinders University</b> <u>Revive Radical Cathodes in Polymer Energy Storage</u>	<b>Dr Erin Leitao, The University of Auckland</b> <u>Siloxane cross-linked polysulfides</u>
14:30 - 14:45	<b>Dr Gayathri Ediriweera, The University of Queensland</b> <u>Metabolic Glycoengineering and Bioorthogonal Chemistry with Targeted Nanocarriers for Advancing Cancer Therapy</u>	<b>Farah Haque, The University of New South Wales</b> <u>Morphological transitions of hydrogen bonded supramolecular nanostructures synthesized via RAFT polymerization of amphiphilic block copolymers</u>	<b>Assoc. Prof. Shudipto Dishari, University of Nebraska-Lincoln</b> <u>Ionomers with Biomimetic Ion Channels Alleviating Ion Transport Limitation in Electrochemical Systems</u>	<b>Sofia Gonçalves, LEPABE-Faculdade de Engenharia da Universidade do Porto</b> <u>Effect of lignosulfonates on moisture resistance of phenol-formaldehyde resins</u>
14:45 - 15:00	<b>Dr Anna Gemmill, The University of Queensland</b> <u>Rechargeable and photo-responsive antimicrobial nanocellulose coatings</u>	<b>Professor Wouter Maes, Hasselt University</b> <u>On the Importance of Chemical Precision in Organic Electronics</u>	<b>Dr Kai Mundsinger, Queensland University of Technology</b> <u>Visible Light Reactive Single-Chain Nanoparticles</u>	<b>Dr Melissa K. Stanfield, University of Tasmania</b> <u>Wood waste to plastic: bio-based polymers as next generation polymer material</u>
15:00 - 15:15	<b>Dr Craig Bell, The University of Queensland</b> <u>An Assessment of Hyperbranched Polymers through RAFT-based polymerisations: how componentry can influence structure</u>	<b>Dr Ruiting Li, Max Planck Institute of Colloids and Interfaces</b> <u>Soft hierarchical photonic pigments</u>	<b>Dr Faezeh Makhlooghiyazad, Deakin University</b> <u>Polymerized Ionic Liquids as Solid Polymer Electrolytes for Enhanced Battery Applications</u>	<b>Jasmine Pople, Flinders University</b> <u>Scaling up the Electrochemical Production of Poly(trisulfides)</u>
15:15 - 15:30	<b>Dr Naomi Hamelmann, University of Washington</b> <u>Polymeric Prodrugs Forming Single-Chain Nanoparticles</u>	<b>Steven Thompson, The University of New South Wales</b> <u>Synthesis and Film Formation of Emulsion Polymer Latexes Featuring H-Bonding via Janus Guanine-Cytosine Base Monomer</u>	<b>Professor Curtis Berlinguette, University of British Columbia</b> <u>Flexible automation accelerates materials discovery</u>	<b>Alfreds D. Tikoalu, Flinders University</b> <u>Amide Solvent Induced S-S Metathesis of Organic Trisulfides and its Application for Polymer Recycling</u>
15:30 - 16:00	<b>Afternoon Refreshments &amp; Trade Exhibition - Monday</b>			
	<b>Polymer of Health - Monday cont'd</b>	<b>Advances in Polymer Synthesis and Characterisation - Monday cont'd</b>	<b>Polymers for Energy and Catalysis - Monday cont'd</b>	<b>Polymers for a Sustainable Future - Monday cont'd</b>
	<b>Keynote Speaker   Polymer of Health - Monday cont'd</b>	<b>Keynote Speaker   Advances in Polymer Synthesis and Characterisation - Monday cont'd</b>	<b>Keynote Speaker   Polymers for Energy and Catalysis - Monday cont'd</b>	<b>Keynote Speaker   Polymers for a Sustainable Future - Monday cont'd</b>
16:00 - 16:30	<b>Assoc. Prof. Melanie MacGregor, Flinders University</b> <u>Plasma polymers for biomedical applications</u>	<b>Dr Jianyong Jin, The University of Auckland</b> <u>Living polymer networks prepared by controlled radical polymerization techniques</u>	<b>Professor Jodie Lutkenhaus, Texas A&amp;M University</b> <u>Mixed Ion-Electron-Solvent Transfer in Radical-containing Polymers</u>	<b>Dr Hatice Mutlu, University Haute de Alsace</b> <u>Novel Sulfur Polymers: Yellow is the New Green</u>
16:30 - 16:45	<b>Dr Cheng Cao, University of New South Wales</b> <u>The protein corona leads to deformation and transition of micelles</u>	<b>Seyed Ahmad Ayati Najafabadi, The University of New South Wales</b> <u>Nano-engineering of aqueous polymer latex particles for film formation applications using multiblock copolymers</u>	<b>Dr Manuel Salado Manzorro, Deakin University</b> <u>Dimensionality Control of Li Transport by MOFs Based Quasi-Solid to Solid Electrolyte (Q-SSEs)</u>	<b>Professor Jenny Pringle, Deakin University</b> <u>Plastic crystal/polymer composites for light gas separation</u>

16:45 - 17:00	<b>Ayumi Pottenger, University of Washington</b> RAFT Polymerizable, Enzyme-Cleavable Polymeric Prodrugs for the Treatment of Infectious Disease	<b>Dr Ender Ercan, National Taiwan University</b> Unveiling Polyfluorene's Structure-Morphology-Property Dynamics: A Pathway to Neuromorphic Computing and Advanced Optoelectronic Materials	<b>Dr Sebastien Maria, Aix-Marseille University, CNRS, Institut de Chimie Radicale UMR 7273</b> Self-healing copolymers as electrolytes for stretchable Li-ion microbatteries	<b>Dr Lynn S. Lisboa, Flinders University</b> Functionalised sulfur polymers for fine-tuned properties
17:00 - 17:15	<b>Dr Nathan Boase, Queensland of Technology</b> Polymer-membrane interactions as a target for polymeric antivirals	<b>Dr Karen Hakobyan, University of New South Wales</b> RAFT SUMI: polymers from the bottom-up		<b>Professor Justin Chalker, Flinders University</b> Electrochemical synthesis of polysulfides: scope, mechanism, applications
17:15 - 17:30	<b>Dr Robert Chapman, University of Newcastle</b> Synthetic mimics of the TRAIL protein	<b>Linh-Duy Thai, Queensland University of Technology</b> Main-chain Macromolecular Hydrazone Photoswitches		<b>Professor Leonie Barner, Queensland University of Technology</b> Life Cycle Assessment in a Nutshell
17:30 - 17:45	<b>Dr Peter Wich, University of New South Wales</b> Polysaccharide Block Copolymers for Drug Delivery and Enzyme Prodrug Therapy	<b>Professor Masahiko Minoda, Kyoto Institute of Technology</b> Controlled synthesis of sulfated alternating glycopolymers as glycosaminoglycan mimics and their functional properties		
18:00 - 19:00	<b>Poster Session</b>			

Tuesday, February 20, 2024

	Track 1	Track 2	Track 3	Track 4
8:30 - 18:00	<b>Registration Desk Opens - Tuesday</b>			
9:00 - 9:10	<b>Welcome and Housekeeping - Tuesday</b>			
9:10 - 10:00	<b>Plenary Presentation 3   Prof. Dr. Frederik R. Wurm, University of Twente</b> Biodegradable polymers with tailored degradation - plastics of the future?			
10:00 - 10:30	<b>Morning Refreshments &amp; Trade Exhibition - Tuesday</b>			
	<b>Polymer of Health - Tuesday</b>	<b>Advances in Polymer Synthesis and Characterisation - Tuesday</b>	<b>Composite Materials and Additive Manufacturing - Tuesday</b>	<b>Polymers for a Sustainable Future - Tuesday</b>
	<b>Keynote Speaker   Polymer of Health - Tuesday</b>	<b>Keynote Speaker   Advances in Polymer Synthesis and Characterisation - Tuesday</b>	<b>Keynote Speaker   Composite Materials and Additive Manufacturing - Tuesday</b>	<b>Keynote Speaker   Polymers for a Sustainable Future - Tuesday</b>
10:30 - 11:30	<b>Asst. Prof. Cassandra Callmann, The University of Texas at Austin</b>	<b>Jun. Professor Dr. Meike Nicole Leiske, University of Bayreuth</b> Amino acids - Building blocks for the synthesis of polymers with tailored properties beyond proteins	<b>Prof. Dr. Daniel Klinger, Freie Universität Berlin</b> Function in polymer nanoparticles through chemistry, morphology, and shape	

11:00 - 11:15	<b>Dr James Wood, The University of Queensland</b> <u>Organic ligand design enabling a theranostic approach with alpha and positron emitting radionuclides in a polymer or monoclonal antibody platform</u>	<b>David Szmalko, RMIT University</b> <u>Cyclic oligomers of poly(ether ketone ketone) and their polymerisation by entropy</u>	<b>Assoc. Prof. Timothy Scott, Monash University</b> <u>Stereolithographic Fabrication of Cold-programmable, Photo-erasable Shape Memory Polymers</u>	<b>Tracey Read, The University of Queensland</b> <u>The effect of non-toxic plasticiser and wood flour on the biodegradation of melt extruded polyhydroxyalkanoate (PHA) sheets in marine field trials</u>
11:15 - 11:30	<b>Dr Edgar Wong, University of New South Wales</b> <u>Smart Red Light-Activated Antimicrobial Prodrug Polymer</u>	<b>Sebastian Gillhuber, Queensland University of Technology</b> <u>Light-triggered Metal-induced Flow Synthesis of Catalytically Active Single-chain Polymer Nanoparticles</u>	<b>Di Zhu, Australian National University</b> <u>Ellagic acid: a hydrophilic photoinitiator for 3D printing of water-driven self-folding smart switch</u>	<b>Assoc. Prof. George Vamvounis, James Cook University</b> <u>A Controlled Approach to Understanding Microplastics in the Environment</u>
11:30 - 11:45	<b>Cintya Dharmayanti, University of South Australia</b> <u>Polymer-homopeptide nanoparticles for targeted endosomal drug release: An investigation into morphology and pH-responsive behaviour of regioisomers</u>	<b>Haoxiang Zeng, The University of Sydney</b> <u>UV-Responsive Bottlebrush Block Copolymers: Transition from Nanodiscs to Micelles through Triggered Self-Immolation Process</u>	<b>Wei Cheng Chen, National Taiwan University</b> <u>High-Performance Non-Volatile Photomemory Utilizing Branched Triblock Copolymers/Perovskite Quantum Dots</u>	<b>Dr Sven Henning, Fraunhofer IMW</b> <u>Toughness enhancement of polybutylene succinate (PBS) for injection moulding applications</u>
11:45 - 12:00	<b>Yusra Rabbani, The University of Queensland</b> <u>Nanocellulose Crystal Hydrogel Encapsulated Plasmonic Nanosensors for Detection of Reactive Oxygen Species (ROS): Towards a Sensing Bandage</u>	<b>Dr Karen Hakobyan, UNSW</b> <u>Microstructural thermochemistry of RAFT polymers</u>	<b>Dr Matthieu Gresil, Monash University</b> <u>Epoxy vitrimer: A potential matrix for multifunctional composite materials</u>	<b>Dr Ritwika Roy, Savitribai Phule Pune University, Pune, India</b> <u>Bioaerosol mitigation ability of Chitosan based biohybrid nanofibers containing green synthesized silver nanoparticles: Promising approach towards environmental sustainability</u>
12:00 - 12:15	<b>Assoc. Prof. Rajib Saha, University of Nebraska-Lincoln</b> <u>Dissecting Lignin Degradation and Fatty Acid Production in a Photosynthetic Soil Microbe</u>	<b>Dr Alexandra Mutch, University of Tasmania</b> <u>Preparation of interpenetrating polymer networks through mixed-mode polymerization of eutectic mixtures</u>	<b>Siti Humairah Harun, University of New South Wales</b> <u>Synthesis of Highly Porous Polymer Nanocomposite Foams With Graphene Oxide Via Miniemulsion Polymerization</u>	<b>Dr Camille Bakkali-hassani, Montpellier</b> <u>Biobased &amp; (Bio)Catalysed Covalent Adaptable Networks</u>
12:15 - 12:30	<b>Dr Nicholas Fletcher, University of Queensland</b> <u>Pre-targeting approaches for polymeric nanomedicine alpha therapeutics</u>	<b>Laura De Wal, University of South Australia</b> <u>Hierarchically Porous Polymer Monoliths for Size Separation</u>	<b>Hiruni Dedduwakumara, Queensland University of Technology</b> <u>Investigating the impact of olefinic structure in polystyrene-polyisoprene-polystyrene (SIS) triblock copolymers on their performance as flexible electrothermal composite heaters</u>	<b>Dr Clement Matthew Chan, The University of Queensland</b> <u>How Fillers and Functional Additives Impact the Biodegradation of Polyhydroxyalkanoate (PHA)?</u>
12:30 - 12:45	<b>Fan Yang, The University of Melbourne</b> <u>Designing dual pH-responsive nanoparticles for bacterial biofilm treatment</u>	<b>Peidong Shen, Australian National University</b> <u>Dynamics of Ploy Cyclic Aminals And Their Triggered Released Of Aldehydes</u>	<b>Mostafa Vahdani, Macquarie University</b> <u>Biodegradable elastic polymers for stretchable piezoresistive strain sensors</u>	<b>Dr Nuno Gama, University of Aveiro</b> <u>Recycling of Polyurethane Foams Using Dicarboxylic Acids</u>

12:45 - 13:00	<b>Professor Karsten Haupt, Université De Technologie De Compiègne</b> Molecularly Imprinted Polymer Nanogels: Synthetic Peptide Antibodies for Biomedical Therapy and Diagnostics	<b>Patrick Maag, Queensland University of Technology</b> Visible-Light-Induced Control over Folding and Unfolding of Fluorescent and Catalytically Active Single-Chain Nanoparticles		
13:00 - 14:00	<b>Lunch &amp; Trade Exhibition - Tuesday</b>			
	<b>Polymer of Health - Tuesday cont.</b>	<b>Advances in Polymer Synthesis and Characterisation - Tuesday cont.</b>	<b>Composite Materials and Additive Manufacturing - Tuesday cont.</b>	<b>Polymers in Industry and Translational Research - Tuesday</b> Chair: Dr Priya Subramanian
	<b>Keynote Speaker   Polymer of Health - Tuesday cont.</b>	<b>Keynote Speaker   Advances in Polymer Synthesis and Characterisation- Tuesday cont.</b>	<b>Keynote Speaker   Composite Materials and Additive Manufacturing - Tuesday cont.</b>	<b>Keynote Speaker   Polymers in Industry and Translational Research - Tuesday</b>
14:00 - 14:30	<b>Professor Greg Qiao, The University of Melbourne</b>	<b>Professor Angelika Neitzel, University of Florida</b>	<b>Professor AJ Boydston, University of Wisconsin-Madison</b> Multimaterial Actinic Spatial Control (MASC) 3D Printing	<b>Professor Madhu Bhaskaran, RMIT</b> Stretchable and conformal sensors for health care and aged care
14:30 - 14:45	<b>Yanting Gao, The University of Melbourne</b> Solvatochromic Fluorophore-Labeled Nanoparticles For Real-Time Monitoring of pH-Responsive Structural Reorganization and Drug Release	<b>Professor Jegatha Nambi Krishnan, Bits Pilani K K Birla Goa Campus</b> Polymer Nanocomposite blend membrane for Desalination Applications	<b>Dr Yasemin Fadil, University of New South Wales</b> Gradient and Core-Shell Waterborne Polymer Nanoparticles: Effects of Particle Morphology on Coating Performance	<b>Zahra Mossayebi, University of Melbourne</b> Antifogging amphiphilic Poly (Ionic Liquid)-based thin films with enhanced stability via continuous assembly of polymers (CAP)
14:45 - 15:00	<b>Norman Ilich, Queensland University of Technology</b> A Delayed Release Implant made of Poly(glycolide-co-trimethylene carbonate-co-caprolactone)	<b>Nadeesha Lakmini Loku Mannage, Queensland University of Technology</b> Furan-modified lignin: New sustainable pathway to the rigid polyurethane foams	<b>Moki Thanusing, Australian National University</b> Water Harvesting Polymers	<b>Professor Luke Connal, Australian National University</b>
15:00 - 15:15	<b>Lilian Boton, The Australian National University</b> Self-healing Hydrogels with Enhanced Antibacterial and Mechanical Properties by Tannic Acid Treatment	<b>Dr Hannes Houck, University of Warwick</b> Thermoreversible photodimerisation of thiomaleimides: a new chemistry platform for covalent polymer bonding, debonding and rebonding	<b>Dr Sahar Salehi-müller, University of Bayreuth</b> Anisotropic composite ink development based on polymeric fillers and ADA-GEL for skeletal muscle tissue bioprinting	<b>Professor Olaf Diegel, University of Auckland</b> Additive Manufacturing: Understanding Value
15:15 - 15:30	<b>Dr Amal Jayakumar Sivaram, University of Queensland</b> Enhancing the delivery of gene therapy for Motor Neuron Disease using focused ultrasound assisted nanoparticles		<b>Vikramsingh Thakur, Indian Institute of Technology Delhi</b> Bilayer barrier-resistant pH-responsive films as freshness indicators for food packaging	<b>Professor Olaf Diegel, University of Auckland - Cont.</b> Additive Manufacturing: Understanding Value
15:30 - 16:00	<b>Afternoon Refreshments &amp; Trade Exhibition - Tuesday</b>			
	<b>Polymer of Health - Tuesday cont'd</b>	<b>Advances in Polymer Synthesis and Characterisation - Tuesday cont'd</b>	<b>Composite Materials and Additive Manufacturing - Tuesday cont'd</b>	<b>Polymers in Industry and Translational Research - Tuesday cont'd</b> Chair: Dr Ramon Tozer

	Keynote Speaker   Polymer of Health - Tuesday cont'd	Keynote Speaker   Advances in Polymer Synthesis and Characterisation - Tuesday cont'd	Keynote Speaker   Composite Materials and Additive Manufacturing - Tuesday cont'd	Keynote Speaker   Polymers in Industry and Translational Research - Tuesday cont'd
16:00 - 16:30	<b>Professor Patrick Stayton, University of Washington</b> Polymeric Prodrugs for Global Health and Immune Therapies	<b>Dr Bryan Tuten, Queensland University of Technology</b> Dynamic Chalcogen Squares for Material and Topological Control over Macromolecules	<b>Dr Samantha Kristufek, Texas Tech University</b> Harnessing the power of natural products towards 3D Printed Materials	<b>Dr Matthieu Gresil Monash University</b>
16:30 - 16:45	<b>Mengdie Li, University of Queensland</b> Development of polymeric micelle-based nanoparticles for monitoring cytokine release in vivo via FRET	<b>Dr Harshal Patel, Flinders University</b> Unusual Trisulfide Chemistry	<b>Ya Shuan Wu, National Taiwan University</b> Utilization of Conjugated Self-Assembled Molecules in Photosynaptic Transistors for Achieving Ultralow Energy Consumption	<b>Maximilian Beach, University of Melbourne</b> A Self-Healing Waterborne Acrylic Latex Coating based on Intrinsic Hydrogen Bonding
16:45 - 17:00	<b>Md Aquib, University of New South Wales (UNSW)</b> Effects of Amphiphilic Terpolymer Topology on Antibacterial Activity and Hemocompatibility	<b>Dr Fumi Ishizuka, University of New South Wales</b> RAFT-Mediated Polymerization-Induced Self-Assembly for the Preparation of Hydrophobic Block Copolymer Nanoparticles in Alcohol/Water Stabilized by Poly(methyl methacrylate)	<b>Wenmu Yang, The University of New South Wales</b> Functionalizing ammonium polyphosphate (APP) using commercial hardener for epoxy	<b>Saikat Ghosh, The University of Queensland</b> Antibody-based PET tracers for glioblastoma
				Keynote Speaker   Polymers in Industry and Translational Research - Tuesday cont'd.
17:00 - 17:15	<b>Hatu Gmedhin, University of New South Wales</b> Tailoring the Selectivity Profile of Ternary Antifungal Polymer Through Sequence-Controlling of the Functional Moieties		<b>Andrew Gillen, NETZSCH</b> New Software for Thermal Simulation of Curing Reactions in Large Volumes	<b>Professor Darren Martin, The University of Queensland</b> Project NURTURE - "From waste to harvest" An NSF Convergence Accelerator project
17:15 - 17:30	<b>Théatin van Leeuwen, University of New South Wales</b> Polymer-metal oxide nanoformulation to adsorb hydrogen sulfide from <i>Fusobacterium nucleatum</i> for improved bowel health		<b>Xiaotong Peng, Australian National University</b> Visible-Light-Responsive Metal-Organic Framework Photoinitiators for High-Resolution 3D Printing and Selective Absorption Composite Materials	<b>Professor Darren Martin, The University of Queensland - cont.</b> Project NURTURE - "From waste to harvest" An NSF Convergence Accelerator project
	<b>RAPID FIRE Session</b>			
17:33 - 17:36	<b>Haokun Shen, University of New South Wales</b> Fast responding and multi-environment functional hydrogel actuators enabled by surface coating of thermo-responsive polymers			
17:36 - 17:39	<b>Yen Vo, University of New South Wales</b> Effects of drug conjugation on the biological activity of single-chain nanoparticles			
17:39 - 17:42	<b>Anna Bednarowicz, Lodz University of Technology</b> Collagen-based freeze-dried foam-like structure with a programmed porous structure			
17:42 - 17:45	<b>Nina Tarzynska, Lodz University of Technology</b> Hyaluronic-based freeze-dried foam-like structure enriched with active compounds			
17:45 - 17:48	<b>Mengnan Zhang, University of New South Wales</b> Biomimetic Electronic Skin through Hierarchical Polymer Structural Design			
17:48 - 17:51	<b>Manpreet Kaur, Flinders University</b> Plasma-polymer coated cellulose membranes for environmental Nanoplastics isolation and quantification			

17:51 - 17:54	<b>Dr Patchiya Phanthong, Fukuoka University</b> <u>Novel Plastic Re-extrusion Process for Regeneration of Mechanical Properties of Low-density Polyethylene</u>
17:54 - 17:57	<b>Kensuke Suga, Kyoto University</b> <u>Dual Ratiometric Fluorescence Monitoring of Mechanical Polymer Chain Stretching and Subsequent Strain-Induced Crystallization</u>
17:57 - 18:00	<b>Kewei Cai, Deakin University</b> <u>Computational Understanding of Poly (ionic liquids) for Solid-state Battery Applications</u>
18:00 - 18:03	<b>Jingwen Yang, The University of Auckland</b> <u>Development of smart wound-healing device based on conducting polymers</u>
18:03 - 18:06	<b>Dr Jacopo Giaretta, The University of Sydney</b> <u>A miniaturised and flexible sensor for fatty acid detection</u>
18:06 - 18:09	<b>Hao Luo, University of New South Wales</b> <u><math>\beta</math>-Lactamase-Activated Antimicrobial Dendron Platform for Precise Targeting of Drug-Resistant Bacteria</u>
18:09 - 18:12	<b>Katayoun Nazemi, Monash Institute of Pharmaceutical Sciences</b> <u>Triggered and tuneable H<sub>2</sub>S release from star polymers with acyl-protected perthiol in the core</u>
18:12 - 18:15	<b>Zeyu Shao, University of New South Wales</b> <u>Smart Antimicrobial Dendron via Galactosidase-Induced Unmasking of Cationic Amine</u>
18:20 - 19:00	<b>Annual General Meeting</b>
18:30 - 20:00	<b>Student Night</b>
18:30 - 20:30	<b>E/MCRs Night Out</b>

Wednesday, February 21, 2024

	Track 1	Track 2	Track 3	Track 4
8:00 - 16:30	<b>Registration Desk Opens - Wednesday</b>			
9:00 - 9:10	<b>Welcome and Housekeeping - Wednesday</b>			
9:10 - 10:00	<b>Plenary Presentation 4   Professor Rachel Segalman, University of California</b> <u>Electrostatically stabilized polymers for batteries</u>			
10:00 - 10:30	<b>Morning Refreshments &amp; Trade Exhibition - Wednesday</b>			
	<b>Polymer of Health - Wednesday</b>	<b>Biomaterials - Wednesday</b>	<b>Composite Materials and Additive Manufacturing - Wednesday</b>	<b>Polymers in Industry and Translational Research - Wednesday</b> Chair: Dr Tim Davey
	<b>Keynote Speaker   Polymer of Health - Wednesday</b>	<b>Keynote Speaker   Biomaterials - Wednesday</b>		<b>Keynote Speaker   Polymers in Industry and Translational Research - Wednesday</b>
10:30 - 11:00	<b>Dr Jessica A. Kretzmann, The University of Western Australia</b> <u>Programming DNA origami for biological applications</u>	<b>Assoc. Prof. Jessica Frith, Monash University</b> <u>Using biomaterials to modulate cell fate, communication and regenerative potential</u>		<b>Dr Jekaterina Viktorova, Syenta</b>
11:00 - 11:15	<b>Professor Jadranka Travas-sejdic, The University of Auckland</b> <u>Electrically addressable materials for health</u>	<b>Shirin Nour, University of Melbourne</b> <u>Molecularly engineered bio-interfaces by presentation of nano-islands of cell-adhesive peptides on polymer surfaces to improve muscle cell behaviour</u>	<b>Dr Vipul Agarwal, University of New South Wales</b> <u>Fabrication and Application of Mixed Ionic-Electronic Conducting Polymer Nanocomposite Coatings</u>	<b>Dr Ramon Tozer, DCC</b> <u>Why seek patent protection for your R&amp;D – is it worth all the effort?'</u>

				Keynote Speaker   Polymers in Industry and Translational Research - Wednesday
11:15 - 11:30	<b>Amal Jayawardena, University of Melbourne</b> <u>SNAPP: Unveiling the Inner Workings of a Class of Promising Antibacterial Polymers</u>	<b>Amber Prior, The University of Queensland</b> <u>Understanding nanoparticle accumulation in tumours using dynamic microfluidic systems</u>	<b>Dr Valentin Bobrin, The University of New South Wales</b> <u>Customized Nanostructured Ceramics via Microphase Separation 3D Printing</u>	<b>Professor Michael F. Cunningham, Queen's University</b> <u>Amphiphilic Block-Random Copolymers as Stabilizers in Emulsion Polymerization</u>
11:30 - 11:45	<b>Yurong Zhang, The University of Melbourne</b> <u>Antimicrobial N-Carboxyanhydride-Derived Polypeptide Functionalized Surfaces</u>	<b>Dr Ilze Donderwinkel, The University of Queensland</b> <u>Colloidal hydrogel library via high throughput rapid one-pot sequential aqueous RAFT (rosa-RAFT)</u>	<b>Dr Mitchell Nothling, University of New South Wales</b> <u>Making Polymers with a Hammer: Mechanically activated solid state radical polymerization via piezocatalysis</u>	<b>Professor Michael F. Cunningham, Queen's University - cont.</b> <u>Amphiphilic Block-Random Copolymers as Stabilizers in Emulsion Polymerization</u>
				Keynote Speaker   Polymers in Industry and Translational Research - Wednesday
11:45 - 12:00	<b>Dr Duc Nguyen, The University of Sydney</b> <u>Polymer Superparamagnetic Iron Oxide Nanorattles</u>	<b>Dr Peter Wich, University of New South Wales</b> <u>Enzyme-Bioink for the 3D Printing of Biocatalytic Materials</u>	<b>Zhen Wang, University of Cambridge</b> <u>Photonic Pigments from Biocompatible Bottlebrush Block Copolymers</u>	<b>Dr Alec Foster, Scion</b> <u>From Polymer R&amp;D to Industrial Impact</u>
12:00 - 12:15	<b>Lakshani Perera, Queensland University of Technology</b> <u>A simple method for suppressing the cloud point temperature of poly(2-ethyl-2-oxazoline)</u>	<b>Vinod Kumar Kannaujiya, UNSW</b> <u>Photoinitiated RAFT Polymerization-Induced Self-Assembly of Protein-Polymer Conjugates: Tuning Morphology and Size</u>		<b>Dr Alec Foster, Scion - cont.</b> <u>From Polymer R&amp;D to Industrial Impact</u>
12:15 - 13:15	<b>Lunch &amp; Trade Exhibition - Wednesday</b>			
	<b>Polymer of Health - Wednesday cont.</b>	<b>Biomaterials - Wednesday cont.</b>	<b>Polymers in Industry and Translational Research - Wednesday cont.</b> Chair: Professor Darren Martin	
	<b>Keynote Speaker   Polymer of Health - Wednesday cont.</b>	<b>Keynote Speaker   Biomaterials - Wednesday cont.</b>	<b>Keynote Speaker   Polymers in Industry and Translational Research - Wednesday cont.</b>	
13:15 - 13:45	<b>Dr Kristian Kempe, Monash University</b> <u>Expanding the Toolbox of Synthetic Stealth Polymers: PEG Alternatives, and their Tuneable Interactions with Biological Systems</u>	<b>Assoc. Prof. Jenny Malmstrom, University of Auckland</b> <u>Engineering soft materials to study cell-material interactions</u>	<b>Assoc. Prof. Angus Johnston</b>	
13:45 - 14:00	<b>Yufu Wang, The University of Melbourne</b> <u>Photochromic and redox responsive nanoparticle by emulsion polymerization of thiol and diarylethene</u>	<b>Dr Zhixing Lin, The University of Melbourne</b> <u>Luminescent Metal-Phenolic Networks for Multicolor Particle Labeling</u>	<b>Vito Giorgio, Dow Coating Materials</b> <u>Polymers for paper barrier coatings – applications and challenges</u>	

14:00 - 14:15	<b>Professor Jorge Morgado, Instituto de Telecomunicações</b> <u>Effect of the molecular structure of oxetane additives on the enhancement of PEDOT:PSS films aqueous stability and conductivity</u>	<b>Wanjun Xu, The University of Melbourne</b> <u>Engineering Flexible Metal-Phenolic Networks with Guest Responsiveness via Intermolecular Interactions</u>	<b>Dr Vien Huynh, University of Melbourne</b> <u>Washable Polymer Coating for Agrochemicals: Transitioning a Lab Bench to Pilot Scale</u>	
14:45 - 15:00	<b>Dr Arif Gulzar, The University of Queensland</b> <u>Chelator Free Radiolabeling of PEGylated Graphene Nanosheet</u>	<b>Professor David Nisbet, University of Melbourne</b> <u>Self-assembling peptide hydrogels to avoiding tissue overgrowth within progenitor cell grafts</u>		
15:00 - 15:15	<b>Chih-Wei Hsu, National Taiwan University</b> <u>Deposition Process Control of Artificial Spider Silk and Hemin Blends for Biobased Phototransistor Memory</u>	<b>Vinod Kumar Kannaujiya, University of New South Wales</b> <u>Acid-Responsive Micellar Nanoparticles for the Delivery of Self-Amplifying ROS-Responsive Prodrugs</u>		
15:15 - 15:45	<b>Afternoon Refreshments &amp; Trade Exhibition - Wednesday</b>			
15:45 - 16:35	<b>Plenary Presentation 5   Professor Kristofer Thurecht, The University of Queensland</b>			
16:35 - 16:45	<b>Symposium Conclusion</b>			
19:00 - 23:00	<b>Symposium Dinner</b>			