




PRELIMINARY PROGRAM

Sunday 18 February 2024		
1100 - 1530	Exhibitor Bump In	Prefunction Area
1300 - 1700	Registration Desk Opens	Atrium Lounge
1600 - 1630	Welcome to the 38th Australasian Polymer Symposium and Māori Cultural Performance by Haka the Legend Assoc. Prof. Georgina Such, The University of Melbourne	Millennium Ballroom
1630 - 1715	Plenary Presentation 1 - Professor Elizabeth Gillies, Western University Design, synthesis, and applications of self-immolative polymers	Millennium Ballroom
1715 – 1745	David Sangster Awardee – Assoc. Prof. Matthew Griffith, University of South Australia Nanoengineered Electroactive Polymers: Soft Materials to Solve Hard Challenges in Energy and Health	Millennium Ballroom
1800 - 2000	Welcome Reception	Atrium Lounge



Monday 19 February 2024		
0800 - 1800	Registration Desk Opens	Atrium Lounge
0800 - 1800	Speaker Room Opens	Boardroom
0830 - 1600	Trade Exhibition Opens	Prefunction Area
	Plenary Session	Millennium Ballroom
0900 – 0910	Welcome to Day 2 Assoc. Prof. Georgina Such, The University of Melbourne	
0910 - 0955	Plenary Presentation 2 - Professor Bronwyn Fox, CSIRO Going beyond - new solutions and synergies in a fast-changing world	
0955 - 1025	Morning Refreshments & Trade Exhibition	Atrium Lounge & Prefunction Area



	Polymer of Health	Advances in Polymer Synthesis and Characterisation	Polymers for Energy and Catalysis	Polymers for a Sustainable Future With thanks to our ECR Lectures Sponsor 
Location:	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair:	Assoc. Prof. Angus Johnston Monash University	Dr Jianyong Jin The University of Auckland	Professor Justin Chalker Flinders University	Professor Leonie Barner Queensland University of Technology
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 – 1100	Professor Martina Stenzel, University of New South Wales The power of amino acids and sugar for the delivery of therapeutic drugs	Assoc. Prof. Jiangtao (Jason) Xu, University of New South Wales Hierarchical Polymer Design on Hydrogel Surfaces for Artificial	Professor Jeffrey Pyun, University of Arizona Polymerizations with Elemental Sulfur and Commodity Sulfur Chemicals for Next Generation Plastic Optics	Dr Florian Graichen, Scion Research The biggest adventure of humanity - linear to regenerative transition
1100 - 1115	Thomas Jarrett, The University of Queensland Using pH-responsive PEG cleavage to improve internalisation of cationic hyperbranched polymers into tumours	Dr Laura Delafresnaye, Queensland University of Technology Precision Photochemistry for Macromolecular Synthesis	Dr Helene Rouault, CEA-Grenoble LITEN PVdF based binders for gelled electrodes prepared with a dry process	Dr He-Kuan Luo, Institute of Sustainability for Chemicals, Energy and Environment - A*STAR The Application of Superbase for the Transformation of Sustainable Polymers

1115 - 1130	<p>Professor Patrick Stayton, University of Washington Mannosylated STING agonist 'drugamers' for dendritic cell-mediated cancer immunotherapy</p>	<p>Professor Cyrille Boyer, The University of New South Wales Fabrication of Nanostructured Materials through 3D Printing and Polymerization Induced Microphase Separation</p>	<p>Dr Fangfang Chen, Deakin University Poly(ionic liquid) Electrolytes for Solid-State Batteries</p>	<p>Dr Eddie Wai Chi Chan, University of Auckland Polymer-based transient electronics via oligo-3-hexylthiophene grafted to degradable polymer backbone</p>
1130 – 1145	<p>Yijun Xiong, The University of Melbourne Bile-acid derived monomer and polymers as a broad-spectrum antimicrobial agent</p>	<p>Assoc. Prof. Hendrik Frisch, Queensland University of Technology The Interplay of Light with Bioinspired Macromolecular Architectures</p>	<p>Professor Prashant Sonar, Queensland University of Technology Innovative Low-Cost Conjugated Charge Transporting Materials for Perovskite & Organic Solar Cells</p>	<p>Dr Donya Ramimoghdam, CSIRO Recyclable-by-design polyurethane polymer via dynamic covalent bonds</p>
1145 - 1200	<p>Professor Michael Wolf, University of British Columbia Photocrosslinkable Antimicrobial and Antiviral Polymers for Modification of Textiles</p>	<p>Assoc. Prof. Stuart Thickett, University of Tasmania Polymerizable Eutectics for the Preparation of Functional Materials</p>	<p>Assoc. Prof. James Blinco, Queensland University of Technology A New Spin on Organic Radical Batteries</p>	<p>Ashwani Kumar, Australian National University Towards a Greener Future: Upcycling Coffee Waste for Sustainable Plastic Replacement</p>
1200 – 1215	<p>James Humphries, The University of Queensland Exploiting the specificity of anti-polymer immune responses for personalised medicines</p>	<p>Professor Xiangcheng Pan, Fudan University Heteroatom Radical Controlled Polymerization</p>	<p>Francis McCallum, Australian Institute For Bioengineering And Nanotechnology Enhancing the Durability of Polymeric Materials via Sequential Infiltration Synthesis</p>	<p>Tomaž Pirman, Helios Resins A copolymerization approach to overcome the kinetic limitations of biobased itaconate radical polymerization</p>

38APS


38TH AUSTRALASIAN POLYMER SYMPOSIUM
 18-21 FEBRUARY 2024 · GRAND MILLENNIUM AUCKLAND · NEW ZEALAND

1215 - 1230	Dr Cameron Evans, The University of Western Australia Polymer-mediated DNA delivery enables construction of spatially encoded 3D cultures	Dr Daniel Eyckens, CSIRO High-Throughput Concurrent Synthesis of Core-Crosslinked star-Polydimethylsiloxane Using an Arm-First Approach	Dr Brett Pollard, Australian National University Polymers from cellulosic waste: Direct polymerisation of levoglucosenone using DBU as a catalyst
1230 - 1245		Dr Joshua Holloway, Queensland University of Technology Up-Scalable Photochemical Synthesis of Polymer Microspheres	Dr Raquel Fernandes, Arcp Colab - Associação Rede De Competência Em Polímeros Tannin-based adhesives: how citric acid improve their performance?
1245 - 1300		Dr Jochen Kammerer, Queensland University of Technology Atomic resolution imaging for the quantitative analysis of metal-functionalized single-chain nanoparticles (SCNPs)	Professor Paul Kilmartin, The University of Auckland Grape marc as a source of high-value products including antioxidant biopolymers
1300 - 1400	Lunch & Trade Exhibition		Atrium Lounge & Prefunction Area



38APS


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	Polymer of Health	Advances in Polymer Synthesis and Characterisation	Polymers for Energy and Catalysis	Polymers for a Sustainable Future <i>With thanks to our ECR Lectures Sponsor</i> 
Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Robert Chapman University of Newcastle	Assoc. Prof. Jiangtao (Jason) Xu University of New South Wales	Assoc. Prof. Melanie MacGregor Flinders University	Dr Hatice Mutlu University Haute de Alsace
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1405 - 1435	Dr Amanda Pearce, Loughborough University Understanding structure-activity relationships of polymeric nanoparticles in biological applications	Dr Jennifer Garden, University of Edinburgh Multimetallic Cooperativity: From Catalysts to Copolymers	Assoc. Prof. Zhongfan Jia, Flinders University Revive Radical Cathodes in Polymer Energy Storage	Dr Erin Leitao, The University of Auckland Siloxane cross-linked polysulfides
1435 - 1450	Dr Gayathri Ediriweera, The University of Queensland Metabolic Glycoengineering and Bioorthogonal Chemistry with Targeted Nanocarriers for Advancing Cancer Therapy	Farah Haque, The University of New South Wales Morphological transitions of hydrogen bonded supramolecular nanostructures synthesized via RAFT polymerization of amphiphilic block copolymers	Assoc. Prof. Shudipto Dishari, University of Nebraska-lincoln Ionomers with Biomimetic Ion Channels Alleviating Ion Transport Limitation in Electrochemical Systems	Sofia Gonçalves, LEPABE-Faculdade de Engenharia da Universidade do Porto Effect of lignosulfonates on moisture resistance of phenol-formaldehyde resins



1450 - 1505	Dr Naomi Hamelmann, University of Washington Polymeric Prodrugs Forming Single-Chain Nanoparticles	Professor Wouter Maes, Hasselt University On the Importance of Chemical Precision in Organic Electronics	Dr Kai Mundsinger, Queensland University of Technology Visible Light Reactive Single-Chain Nanoparticles	Dr Melissa K. Stanfield, University of Tasmania Wood waste to plastic: bio-based polymers as next generation polymer material
1505 - 1520	Dr Craig Bell, The University of Queensland Degradable polymer assemblies by controlled radical ring-opening polymerisation	Dr Ruiting Li, Max Planck Institute of Colloids and Interfaces Soft hierarchical photonic pigments	Dr Faezeh Makhlooghiyazad, Deakin University Polymerized Ionic Liquids as Solid Polymer Electrolytes for Enhanced Battery Applications	Jasmine Pople, Flinders University Scaling up the Electrochemical Production of Poly(trisulfides)
1520 – 1535		Steven Thompson, The University of New South Wales Synthesis and Film Formation of Emulsion Polymer Latexes Featuring H-Bonding via Janus Guanine-Cytosine Base Monomer	Professor Curtis Berlinguette, University of British Columbia Flexible automation accelerates materials discovery	Alfrets D. Tikoalu, Flinders University Amide Solvent Induced S-S Metathesis of Organic Trisulfides and its Application for Polymer Recycling
1535 – 1605	Afternoon Refreshments & Trade Exhibition			Atrium Lounge & Prefunction Area



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Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Amanda Pearce Loughborough University	Dr Jennifer Garden University of Edinburgh	Assoc. Prof. Zhongfan Jia Flinders University	Assoc. Prof. George Vamvounis James Cook University
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1610 – 1640	Assoc. Prof. Melanie MacGregor, Flinders University Plasma polymers for biomedical applications	Dr Jianyong Jin, The University of Auckland Living polymer networks prepared by controlled radical polymerization techniques	Professor Jodie Lutkenhaus, Texas A&M University Mixed Ion-Electron-Solvent Transfer in Radical-containing Polymers	Dr Hatice Mutlu, University Haute de Alsace Novel Sulfur Polymers: Yellow is the New Green
1640 – 1655	Dr Cheng Cao, University of New South Wales The protein corona leads to deformation and transition of micelles	Seyed Ahmad Ayati Najafabadi, The University of New South Wales Nano-engineering of aqueous polymer latex particles for film formation applications using multiblock copolymers	Dr Manuel Salado Manzorro, Deakin University Dimensionality Control of Li Transport by MOFs Based Quasi-Solid to Solid Electrolyte (Q-SSEs)	Professor Jenny Pringle, Deakin University Plastic crystal/polymer composites for light gas separation




1655 - 1710	Ayumi Pottenger, University of Washington RAFT Polymerizable, Enzyme-Cleavable Polymeric Prodrugs for the Treatment of Infectious Disease	Dr Ender Ercan, National Taiwan University Unveiling Polyfluorene's Structure-Morphology-Property Dynamics: A Pathway to Neuromorphic Computing and Advanced Optoelectronic Materials	Dr Sebastien Maria, Aix-Marseille University, CNRS, Institut de Chimie Radicale UMR 7273 Self-healing copolymers as electrolytes for stretchable Li-ion microbatteries	Dr Lynn S. Lisboa, Flinders University Functionalised sulfur polymers for fine-tuned properties
1710 - 1725	Dr Nathan Boase, Queensland University of Technology Polymer-membrane interactions as a target for polymeric antivirals	Dr Karen Hakobyan, University of New South Wales RAFT SUMI: polymers from the bottom-up		Professor Justin Chalker, Flinders University Electrochemical synthesis of polysulfides: scope, mechanism, applications
1725 - 1740	Dr Robert Chapman, University of Newcastle Synthetic mimics of the TRAIL protein	Linh-Duy Thai, Queensland University of Technology Main-chain Macromolecular Hydrazone Photoswitches		Professor Leonie Barner, Queensland University of Technology Life Cycle Assessment in a Nutshell
1740 – 1755	Dr Peter Wich, University of New South Wales Polysaccharide Block Copolymers for Drug Delivery and Enzyme Prodrug Therapy	Professor Masahiko Minoda, Kyoto Institute of Technology Controlled synthesis of sulfated alternating glycopolymers as glycosaminoglycan mimics and their functional properties		
1800 - 1930	Poster Session			Atrium Lounge



Tuesday 20 February 2024		
0830 - 1800	Registration Desk Opens	Atrium Lounge
0800 - 1800	Speaker Room Opens	Boardroom
0830 - 1600	Trade Exhibition Opens	Prefunction Area
	Plenary Session	Millennium Ballroom
0900 – 0910	Welcome Day 3 and Housekeeping Professor Tanja Junkers, Monash University	
0910 - 0955	Plenary Presentation 3 - Prof. Dr. Frederik R. Wurm, University of Twente Biodegradable polymers with tailored degradation - plastics of the future?	
0955 - 1025	Morning Refreshments & Trade Exhibition	Atrium Lounge & Prefunction Area



	Polymer of Health	Advances in Polymer Synthesis and Characterisation	Composite Materials and Additive Manufacturing	Polymers for a Sustainable Future <i>With thanks to our ECR Lectures Sponsor</i> 
Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Nathan Boase Queensland University of Technology	Assoc. Prof. James Blinco Queensland University of Technology	Dr Brett Pollard Australian National University	Prof. Dr. Frederik R. Wurm University of Twente
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 – 1100	Professor Cassandra Callmann, The University of Texas at Austin Targeting Galectin-3 with Precision Glycopolymers	Jun. Professor Dr. Meike Nicole Leiske, University of Bayreuth Amino acids - Building blocks for the synthesis of polymers with tailored properties beyond proteins	Assoc. Prof. Timothy Scott, Monash University Stereolithographic Fabrication of Cold-programmable, Photo-erasable Shape Memory Polymers	Assoc. Prof. George Vamvounis, James Cook University A Controlled Approach to Understanding Microplastics in the Environment



	Keynote Speaker			
1100 - 1115	Dr Nicholas Fletcher, University of Queensland Pre-targeting approaches for polymeric nanomedicine alpha therapeutics	David Szmalko, RMIT University Cyclic oligomers of poly(ether ketone) and their polymerisation by entropy	Di Zhu, Australian National University Ellagic acid: a hydrophilic photoinitiator for 3D printing of water-driven self-folding smart switch	Tracey Read, The University of Queensland The effect of non-toxic plasticiser and wood flour on the biodegradation of melt extruded polyhydroxyalkanoate (PHA) sheets in marine field trials
1115- 1130		Sebastian Gillhuber, Queensland University of Technology Light-triggered Metal-induced Flow Synthesis of Catalytically Active Single-chain Polymer Nanoparticles	Wei Cheng Chen, National Taiwan University High-Performance Non-Volatile Photomemory Utilizing Branched Triblock Copolymers/Perovskite Quantum Dots	Dr Sven Henning, Fraunhofer Imws Toughness enhancement of polybutylene succinate (PBS) for injection moulding applications
1130 – 1145	Dr Edgar Wong, University of New South Wales Smart Red Light-Activated Antimicrobial Prodrug Polymer	Haoxiang Zeng, The University of Sydney UV-Responsive Bottlebrush Block Copolymers: Transition from Nanodiscs to Micelles through Triggered Self-Immolation Process	Dr Matthieu Gresil, Monash University Epoxy vitrimer: A potential matrix for multifunctional composite materials	Dr Camille Bakkali-hassani, Montpellier Biobased & (Bio)Catalysed Covalent Adaptable Networks
1145 - 1200	Cintya Dharmayanti, University of South Australia Polymer-homopeptide nanoparticles for targeted endosomal drug release: An investigation into morphology and pH-responsive behaviour of regioisomers	Dr Alexandra Mutch, University of Tasmania Preparation of interpenetrating polymer networks through mixed-mode polymerization of eutectic mixtures	Siti Humairah Harun, University of New South Wales Synthesis of Highly Porous Polymer Nanocomposite Foams With Graphene Oxide Via Miniemulsion Polymerization	Dr Clement Matthew Chan, The University of Queensland How Fillers and Functional Additives Impact the Biodegradation of Polyhydroxyalkanoate (PHA)?

38APS

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1200 – 1215	<p>Yusra Rabbani, The University of Queensland Nanocellulose Crystal Hydrogel Encapsulated Plasmonic Nanosensors for Detection of Reactive Oxygen Species (ROS): Towards a Sensing Bandage</p>	<p>Laura De Wal, University of South Australia Hierarchically Porous Polymer Monoliths for Size Separation</p>	<p>Hiruni Dedduwakumara, Queensland University of Technology Investigating the impact of olefinic structure in polystyrene-polyisoprene-polystyrene (SIS) triblock copolymers on their performance as flexible electrothermal composite heaters</p>	
1215 - 1230	<p>Assoc. Prof. Rajib Saha, University of Nebraska-Lincoln Dissecting Lignin Degradation and Fatty Acid Production in a Photosynthetic Soil Microbe</p>	<p>Peidong Shen, Australian National University Dynamics of Poly Cyclic Aminals And Their Triggered Released Of Aldehydes</p>		
1230 - 1245	<p>Fan Yang, The University of Melbourne Designing dual pH-responsive nanoparticles for bacterial biofilm treatment</p>	<p>Patrick Maag, Queensland University of Technology Visible-Light-Induced Control over Folding and Unfolding of Fluorescent and Catalytically Active Single-Chain Nanoparticles</p>		
1245 - 1345	Lunch & Trade Exhibition			Atrium Lounge & Prefunction Area

	Polymer of Health	Advances in Polymer Synthesis and Characterisation	Composite Materials and Additive Manufacturing	Polymers in Industry and Translational Research <i>With thanks to our Theme Sponsor</i>
Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Peter Wich University of New South Wales	Dr Bryan Tuten Queensland University of Technology	Dr Samantha Kristufek Texas Tech University	Dr Priya Subramanian Dulux
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1350 - 1420	Professor Greg Qiao, The University of Melbourne Amino Acid Based Antibacterial Polymeric Drugs	Professor Angelika Neitzel, University of Florida Charge density-driven demixing in multicomponent polyelectrolyte complex coacervates	Professor Luke Connal, Australian National University Making polymers out of coffee and 3D printing electronics	Professor Madhu Bhaskaran, RMIT Stretchable and conformal sensors for health care and aged care
1420 - 1435	Yanting Gao, The University of Melbourne Solvatochromic Fluorophore-Labeled Nanoparticles For Real-Time Monitoring of pH-Responsive Structural Reorganization and Drug Release	Dr Hannes Houck, University of Warwick Thermoreversible photodimerisation of thiomaleimides: a new chemistry platform for covalent polymer bonding, debonding and rebonding	Dr Yasemin Fadil, University of New South Wales Gradient and Core-Shell Waterborne Polymer Nanoparticles: Effects of Particle Morphology on Coating Performance	Zahra Mossayebi, University of Melbourne Antifogging amphiphilic Poly (Ionic Liquid)-based thin films with enhanced stability via continuous assembly of polymers (CAP)





1435 - 1450	Norman Ilich, Queensland University of Technology A Delayed Release Implant made of Poly(glycolide-co-trimethylene carbonate-co-caprolactone)	Nadeesha Lakmini Loku Mannage, Queensland University of Technology Furan-modified lignin: New sustainable pathway to the rigid polyurethane foams	Moki Thanusing, Australian National University Water Harvesting Polymers	Professor Luke Connal, Australian National University Starting a Start-up
1450- 1505	Lilian Boton, The Australian National University Self-healing Hydrogels with Enhanced Antibacterial and Mechanical Properties by Tannic Acid Treatment		Dr Sahar Salehi-müller, University of Bayreuth Anisotropic composite ink development based on polymeric fillers and ADA-GEL for skeletal muscle tissue bioprinting	Keynote Speaker
1505 - 1520	Dr Amal Jayakumar Sivaram, The University of Queensland Enhancing the delivery of gene therapy for Motor Neuron Disease using focused ultrasound assisted nanoparticles			Professor Olaf Diegel, The University of Auckland Additive Manufacturing: Understanding Value
1520 – 1550	Afternoon Refreshments & Trade Exhibition			Atrium Lounge & Prefunction Area

38APS

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	Polymer of Health	Advances in Polymer Synthesis and Characterisation	Composite Materials and Additive Manufacturing	Polymers in Industry and Translational Research <i>With thanks to our Theme Sponsor</i>
Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Jessica Kretzmann The University of Western Australia	Professor Angelika Neitzel University of Florida	Prof. Dr. Daniel Klinger Freie Universität Berlin	Dr Ramon Tozer Davies Collison Cave
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1555 – 1625	Professor Patrick Stayton, University of Washington Polymeric Prodrugs for Global Health and Immune Therapies	Dr Bryan Tuten, Queensland University of Technology Dynamic Chalcogen Squares for Material and Topological Control over Macromolecules	Dr Samantha Kristufek, Texas Tech University Harnessing the power of natural products towards 3D Printed Materials	Dr Matthieu Gresil, Monash University From Off-Stoichiometry to Biocatalysis: Unlocking the Potential of Vitrimers
1625 – 1640	Mengdie Li, The University of Queensland Development of polymeric micelle-based nanoparticles for monitoring cytokine release in vivo via FRET	Dr Harshal Patel, Flinders University Unusual Trisulfide Chemistry and Exploratory Applications in Polymer Synthesis	Ya Shuan Wu, National Taiwan University Utilization of Conjugated Self-Assembled Molecules in Photosynaptic Transistors for Achieving Ultralow Energy Consumption	Maximilian Beach, University of Melbourne A Self-Healing Waterborne Acrylic Latex Coating based on Intrinsic Hydrogen Bonding



1640 - 1655	<p>Md Aquib, University of New South Wales (UNSW) Effects of Amphiphilic Terpolymer Topology on Antibacterial Activity and Hemocompatibility</p>	<p>Dr Fumi Ishizuka, University of New South Wales RAFT-Mediated Polymerization-Induced Self-Assembly for the Preparation of Hydrophobic Block Copolymer Nanoparticles in Alcohol/Water Stabilized by Poly(methyl methacrylate)</p>	<p>Xiaotong Peng, Australian National University Visible-Light-Responsive Metal-Organic Framework Photoinitiators for High-Resolution 3D Printing and Selective Absorption Composite Materials</p>	<p>Saikat Ghosh, The University of Queensland Antibody-based PET tracers for glioblastoma</p>
1655 - 1710	<p>Hatu Gmedhin, University of New South Wales (UNSW) Tailoring the Selectivity Profile of Ternary Antifungal Polymer Through Sequence-Controlling of the Functional Moieties</p>		<p>Andrew Gillen, NETZSCH New Software for Thermal Simulation of Curing Reactions in Large Volumes</p>	<p>Keynote Speaker</p>
1710 - 1725	<p>Théatin van Leeuwen, University of New South Wales Polymer-metal oxide nanoformulation to adsorb hydrogen sulfide from <i>Fusobacterium nucleatum</i> for improved bowel health</p>			<p>Assoc. Prof. Angus Johnston, Monash University Precisely targeted dendrimers: Maximising delivery and uptake in tumours</p>



1730 - 1810	RAPID FIRE Session Chair: Assoc. Prof. Georgina Such The University of Melbourne	Millennium Ballroom
1735 - 1738	Haokun Shen, University of New South Wales Fast responding and multi-environment functional hydrogel actuators enabled by surface coating of thermo-responsive polymers	
1738 - 1741	Yen Vo, University of New South Wales Effects of drug conjugation on the biological activity of single-chain nanoparticles	
1741 - 1744	Anna Bednarowicz, Lukasiwicz - Lodz Institute of Technology Collagen-based freeze-dried foam-like structure with a programmed porous structure	
1744 - 1747	Nina Tarzynska, Lukasiwicz - Lodz Institute of Technology Hyaluronic-based freeze-dried foam-like structure enriched with active compounds	
1747 – 1750	Mengnan Zhang, University of New South Wales Biomimetic Electronic Skin through Hierarchical Polymer Structural Design	
1750 - 1753	Manpreet Kaur, Flinders University Plasma-polymer coated cellulose membranes for environmental Nanoplastics isolation and quantification	
1753 - 1756	Kensuke Suga, Kyoto University Dual Ratiometric Fluorescence Monitoring of Mechanical Polymer Chain Stretching and Subsequent Strain-Induced Crystallization	





1756 - 1759	Kewei Cai, Deakin University Computational Understanding of Poly (ionic liquids) for Solid-state Battery Applications	
1759 - 1802	Jingwen Yang, The University of Auckland Development of smart wound-healing device based on conducting polymers	
1802- 1805	Dr Jacopo Giaretta, The University of Sydney A miniaturised and flexible sensor for fatty acid detection	
1805 - 1808	Katayoun Nazemi, Monash Institute of Pharmaceutical Sciences Triggered and tuneable H ₂ S release from star polymers with acyl-protected perthiol in the core	
1810 - 1910	Annual General Meeting	Tasman 2
1900 – 2030	Student Night	Sweat Shop Brew Kitchen <i>(17 mins walk from Grand Millennium Auckland)</i>
1900 - 2100	E/MCRs Night Out	The Fiddler Irish Bar <i>(14 mins walk from Grand Millennium Auckland)</i>



Wednesday 21 February 2024		
0830 - 1600	Registration Desk Opens	Atrium Lounge
0800 - 1600	Speaker Room Opens	Boardroom
0830 - 1545	Trade Exhibition Opens	Prefunction Area
	Plenary Session	Millennium Ballroom
0900 – 0910	Welcome Day 4 and Housekeeping Professor Luke Connal, Australian National University	
0910 - 0955	Plenary Presentation 4 - Professor Rachel Segalman, University of California Electrostatically stabilized polymers for batteries	
0955 - 1025	Morning Refreshments & Trade Exhibition	Atrium Lounge & Prefunction Area



	Polymer of Health	Biomaterials <i>With thanks to our ECR Lectures Sponsor</i> 	Polymers in Industry and Translational Research <i>With thanks to our Theme Sponsor</i> 	Composite Materials and Additive Manufacturing
Location	Millennium Ballroom	Tasman 1	Tasman 2	Coromandel
Chair	Dr Kristian Kempe Monash University	Assoc. Prof. Brooke Farrugia The University of Melbourne	Professor Darren Martin The University of Queensland	Professor Luke Connal Australian National University
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 - 1100	Dr Jessica A. Kretzmann, The University of Western Australia Programming DNA origami for biological applications	Assoc. Prof. Jessica Frith, Monash University Using biomaterials to modulate cell fate, communication and regenerative potential	Professor Michael F. Cunningham, Queen's University Amphiphilic Block-Random Copolymers as Stabilizers in Emulsion Polymerization	Prof. Dr. Daniel Klinger, Freie Universität Berlin Function in polymer nanoparticles through chemistry, morphology, and shape





1100 - 1115	<p>Professor Jadranka Travas-sejdic, The University of Auckland Electrically addressable materials for health</p>	<p>Shirin Nour, The University of Melbourne Molecularly engineered bio-interfaces by presentation of nano-islands of cell-adhesive peptides on polymer surfaces to improve muscle cell behaviour</p>	<p>Dr Ramon Tozer, Davies Collison Cave Why seek patent protection for your R&D – is it worth all the effort?'</p>	<p>Dr Vipul Agarwal, University of New South Wales Fabrication and Application of Mixed Ionic–Electronic Conducting Polymer Nanocomposite Coatings</p>
1115 - 1130	<p>Amal Jayawardena, The University of Melbourne SNAPP: Unveiling the Inner Workings of a Class of Promising Antibacterial Polymers</p>	<p>Amber Prior, The University of Queensland Understanding polymeric nanoparticle accumulation in tumours using dynamic microfluidic systems</p>	<p>Keynote Speaker</p>	<p>Dr Valentin Bobrin, The University of New South Wales Customized Nanostructured Ceramics via Microphase Separation 3D Printing</p>
1130 – 1145	<p>Yurong Zhang, The University of Melbourne Antimicrobial N-Carboxyanhydride-Derived Polypeptide Functionalized Surfaces</p>	<p>Dr Ilze Donderwinkel, The University of Queensland Colloidal hydrogel library via high throughput rapid one-pot sequential aqueous RAFT (rosa-RAFT)</p>	<p>Dr Alec Foster, Scion From Polymer R&D to Industrial Impact</p>	<p>Dr Mitchell Nothling, University of New South Wales Making Polymers with a Hammer: Mechanically activated solid state radical polymerization via piezocatalysis</p>



1145 - 1200	Dr Duc Nguyen, The University of Sydney Polymer Superparamagnetic Iron Oxide Nanorattles	Dr Peter Wich, University of New South Wales Enzyme-Bioink for the 3D Printing of Biocatalytic Materials		Zhen Wang, University of Cambridge Photonic Pigments from Biocompatible Bottlebrush Block Copolymers
1200 – 1215	Lakshani Perera, Queensland University of Technology A simple method for suppressing the cloud point temperature of poly(2-ethyl-2-oxazoline)			
1215 - 1315	Lunch & Trade Exhibition			Atrium Lounge & Prefunction Area



	Polymer of Health	Biomaterials <i>With thanks to our ECR Lectures Sponsor</i> 	Polymers in Industry and Translational Research <i>With thanks to our Theme Sponsor</i> 
Location	Millennium Ballroom	Tasman 1	Tasman 2
Chair	Dr Cameron Evans The University of Western Australia	Dr Jan Lauko The University of Queensland	Dr Tim Davey Dulux
	Keynote Speaker	Keynote Speaker	Keynote Speaker
1320 - 1350	Dr Kristian Kempe, Monash University Expanding the Toolbox of Synthetic Stealth Polymers: PEG Alternatives, and their Tuneable Interactions with Biological Systems	Assoc. Prof. Brooke Farrugia, The University of Melbourne Exploring New Materials as Biomimetic Growth Factor Delivery Systems	Professor Darren Martin, The University of Queensland Project NURTURE - "From waste to harvest" An NSF Convergence Accelerator project
1350 – 1405	Yufu Wang, The University of Melbourne Photochromic and redox responsive nanoparticle by emulsion polymerization of thiol and diarylethene	Professor David Nisbet, The University of Melbourne Self-assembling peptide hydrogels to avoiding tissue overgrowth within progenitor cell grafts	Vito Giorgio, DOW Coating Materials Polymers for paper barrier coatings – applications and challenges



1405 - 1420	Professor Jorge Morgado, Instituto de Telecomunicações Effect of the molecular structure of oxetane additives on the enhancement of PEDOT:PSS films aqueous stability and conductivity	Dr Arif Gulzar, The University of Queensland Chelator Free Radiolabeling of PEGylated Graphene Nanosheet	Dr Vien Huynh, The University of Sydney Washable Polymer Coating for Agrochemicals: Transitioning a Lab Bench to Pilot Scale
1420 - 1450	Afternoon Refreshments & Trade Exhibition		Atrium Lounge & Prefunction Area
	Plenary Session		Millennium Ballroom
1455 - 1540	Plenary Presentation 5 - Professor Kristofer Thurecht, The University of Queensland Responsive polymers and bioorthogonal chemistry to probe biological processes		
1540 - 1600	Awards Presentation & Symposium Conclusion Assoc. Prof. Georgina Such, The University of Melbourne		
1900 - 2300	Symposium Dinner		Wētā Workshop Unleashed <i>(13 mins walk from Grand Millennium Auckland)</i>



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