



39th Australasian Polymer Symposium

7-10 December 2025 | Canberra Rex Hotel



Sunday 7 December 2025		Location
1100 - 1530	Exhibitor Bump In	Rex Ballroom
1300 - 1800	Registration Desk Open, Canberra Rex Foyer — if you are arriving early, visit the team at the registration desk to collect your name badge.	Proudly sponsored by  TOSOH BIOSCIENCE
1500 - 1800	Speaker Room Open — presenting today; please ensure you upload your presentation at least 2 hours before you are scheduled on stage	Boardroom
	Plenary Session – Chair: Prof Luke Connal	Room 1 & 2
1600 - 1630	Welcome to Country - Paul Girrawah House , Ngambri-Kamberri, Walgalu, Wallaballooa, Wiradyuri custodian Welcome to the 39th Australasian Polymer Symposium - Prof Luke Connal, Convenor, Australian National University	
1630 - 1715	Plenary Presentation 1 Well-Defined Ultra-High Molecular Weight Polymers: From Multifunctional Materials to Mucosal Medicine Brent Sumerlin, University of Florida	Proudly sponsored by  SHIMADZU Excellence in Science
1715 – 1745	David Sangster Awardee The Wonderful Functional World of Poly(Cyclic Imino Ether)s: Exploiting their Chemical Versatility for (Bio)Materials Design A/Prof Kristian Kempe, Monash University	
1800 - 2000	Welcome Reception, Canberra Rex Hotel	Rex Ballroom



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Monday 8 December 2025				Location
0800 - 1745	Registration Desk Opens			Foyer
0800 - 1700	Speaker Room Open – presenting today; please ensure you upload your presentation at least 2 hours before you are scheduled on stage			Boardroom
0830 - 1600	Trade Exhibition Opens – call by early and say hello to our exhibitors before the session begins			Rex Ballroom
	Plenary Session – Chair: A/Prof Stuart Thickett			Room 1 & 2
0900 – 0910	Welcome to Day 2 - A/Prof Stuart Thickett, <i>University of Tasmania</i>			
0910 - 0955	Plenary Presentation 2 The Design of Stimuli Responsive Materials: From Drug Delivery to Advanced Manufacturing Prof Georgina Such, <i>The University of Melbourne</i>			Proudly sponsored by  Worth doing, worth Dulux.
0955 - 1025	Morning Refreshments & Trade Exhibition			Rex Ballroom
	Polymers for Health	Composites, colloids and processing	Polymer Sustainability	Advanced polymer synthesis and characterisation
Location:	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair:	Dr Johannes C Brendel & Dr Kristian Kempe University of Bayreuth & Monash University	Dr Nathan Boase Queensland University of Technology	Dr Zhongfan Jia Flinders University	A/Prof Markus Muellner The University of Sydney



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	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 – 1100	Advanced Antimicrobial Macromolecules Dr Edgar Wong <i>University of New South Wales</i>	Polymer brushes: A platform for understanding specific ion effects and hypersaline environments Prof Erica Wanless <i>University of Newcastle</i>	Biodegradable polyhydroxyalkanoates – toughening, modification and applications Prof Bronwyn Laycock <i>The University of Queensland</i>	Sugar, Polyphenolic, and Catechol Motifs for Polymeric Materials Dr Samantha Kristufek <i>Texas Tech University</i>
		Keynote Speaker		
1100 - 1115	Modular Dendronised Amphiphilic Peptide Oligomers as a platform for nucleic acid delivery Lennart Schaefer <i>University of Western Australia</i>	High char yield polymers and their application in high temperature composite applications Dr Michael Heitzmann <i>The University of Queensland</i>	Biobased Polymers from Biomass: Thiol–ene Polymerisation of Levoglucosenone-based Monomers Mahesh Timilsina <i>University of Tasmania</i>	Exploitation of Triazine-Based Hydrogen Bonding Motifs in Soft - Hard Diblock Copolymers via RAFT Emulsion Polymerization: Synthesis and Film Formation Farah Haque <i>University of New South Wales</i>
1115 - 1130	Synthetic mimics of natural proteins Dr Robert Chapman <i>University of Newcastle</i>		Selective sequestration of palladium(II) cations using a supramolecular polymer approach Jason Buchanan <i>Australian National University</i>	Multiblock Copolymer Nanoparticles from RAFT Emulsion Polymerization: Synthesis and Film Formation Seyed Ahmad Ayati Najafabadi <i>University of New South Wales</i>



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1130 – 1145	Don't FRET About It: Investigating Polymer and Nucleic Acid complexation for siRNA cancer therapies with Förster Resonance Energy Transfer (FRET) Jarrold Hillyer <i>University of New South Wales</i>	Green design of bio-based dual-network keratinopolysaccharide hydrogels with enhanced structural integrity Junfeng Wu <i>University of Canterbury</i>	Recyclable Polyethylene Analogs by Trisulfide Metathesis Polymerization James Smith <i>Flinders University</i>	Standard Melting Enthalpy of Polycaprolactone Determination Through a Sequence-defined Oligocaprolactone Synthesis Approach Thayanithi Ayyachi <i>Queensland University of Technology</i>
1145 - 1200	High-Performance Surface Polymer Brushes for Antifouling and Antibacterial Applications Dr Changkui Fu <i>The University of Queensland</i>	Flame-retardant Coating based on Natural Rubber Latex and Acrylic Emulsion Blends Dr Nabil Hayeemasae <i>Prince of Songkla University</i>	Sustainable production and chemical modification of unsaturated polyhydroxyalkanoates via waste valorisation and plasticization Fatema Tuz Zohora <i>Monash University</i>	Flash DSC Characterization of Crystallization Kinetics in the Recycled PE/PP Blends and their Calcium Carbonate Composites Prof Wenbing Hu <i>Nanjing University</i>
1200 – 1215	Engineering next generation bioinspired antibacterial polymers Sandra Jestin <i>Australian National University</i>		Making and unmaking poly(trisulfides): Recyclable plastics, IR optics, and gold sorbents Prof Justin Chalker <i>Flinders University</i>	Rapid Stress-Release in Phenyllic Crosslinked Polymers through Thiol-Thioester Exchange Chemistry Dr Md. Daloar Hossain <i>The University of Queensland</i>



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1215 - 1230	Predictive Modelling of Solvent Effects on Drug Incorporation into Polymeric Nanocarriers: A Machine Learning Approach Wei Ge <i>University of New South Wales</i>		Plastics as Insect Food: Design and Environmental Impact of Alternative Plastics Dr Nicholas Chan <i>CSIRO</i>	Molar mass determination: Why Spectroscopy Can be Better than Chromatography Prof Tanja Junkers <i>Monash University</i>
1230 - 1245	Polymer Inhibitors of Penicillinase for Fighting Antimicrobial Resistance Palace Carter <i>University of Newcastle</i>		Enhancing Chemical Recycling via Controlled Radical Polymerization Using Continuous Flow Dr Gayathri Dev Ammini <i>Monash University</i>	Simplifying synthesis through single-step polymer grafting Dr Joel Hooper <i>Monash University</i>
1245 - 1300			Radical Ring-Opening Polymerization of α -Lipoic Acid: A New Strategy for Sustainable Vinyl Polymers Shiwei Han <i>University of New South Wales</i>	
1300 - 1400	Lunch & Trade Exhibition			Rex Ballroom



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	Polymers for Health	Composites, colloids and processing	Polymer Sustainability	Advanced polymer synthesis and characterisation
Location	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair	Dr Valentin Bobrin The University of Queensland	Prof Erica Wanless University of Newcastle	Prof Justin Chalker Flinders University	Prof Tanja Junkers Monash University
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1405 - 1435	A Spoonful of Sugar: Designing Glycomaterials as Active Therapeutics in Cancer and Beyond Dr Cassandra Callmann <i>The University of Texas at Austin</i>	Unlocking the potential of piezoelectric and triboelectric polymers and their composites Prof Amanda Ellis <i>The University of Melbourne</i>	Designs for Recyclable, Degradable, More Sustainable Polymers Dr Graeme Moad <i>CSIRO</i>	Dynamic Polymer Networks from Poly(Methacrylic Anhydrides) Prof Devon Shipp <i>Clarkson University</i>
1435 - 1450	Sublingual Carboxymethylcellulose Film Containing Millingtonia hortensis Extract Exerts Anxiolytic Effects in Mice Dr Nifareeda Samerphob <i>Prince of Songkla University</i>	Designing multifunctional waterborne polymer nanocomposites Dr Vipul Agarwal <i>University of New South Wales</i>	Functionalisation of poly(3-hydroxybutyrate) via catalyst-free aminolysis Jayalakshmi Jayaprakash <i>Monash University</i>	Beyond binding: A high-throughput approach for designing polymers suitable for enzyme encapsulation Carolyn Bapp <i>University of Newcastle</i>



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1450 – 1505	Tuning Lipoamide Delivery Systems for Enhanced Gene Delivery Dr Umeka Nayanathara <i>The University of Melbourne Baker Heart & Diabetes Institute</i>	Understanding how the interactions and morphology in composites of styrenic rubbers and carbon black define their performance as electrothermal heaters Dr Nathan Boase <i>Queensland University of Technology</i>	Polymers from Cellulosic Waste: Direct Polymerization using DBU as a Catalyst Dr Brett Pollard <i>Australian National University</i>	Exploring Phenyl Vinyl Ketone Polymers as Non-Chemically Amplified Photoresists for EUV Lithography Yining Du <i>The University of Queensland</i>
1505 - 1520	Advanced Antimicrobial Dendron via Cyclodextrin-Hydrophobic Inclusion Complexes Hao Luo <i>University of New South Wales</i>	Structural characterisation of the upper critical solution temperature (UCST) thermotransition of an amino acid-containing polymer brush Zachary Di Pietro <i>University of Newcastle</i>	Biodegradable food packaging materials Mai Trinh Phuong (Mel) Nguyen <i>University of Adelaide</i>	Behavior of Photo-Chromic Dyes in Thermoplastic Rigid Polymers Prof Boris Gorelik <i>Mobichem Scientific Engineering Ltd</i>
1520 – 1535	Reductive-Cleavable Enzyme-based Nanoparticles as Multifunctional Biomaterials Saluo Lai <i>University of New South Wales</i>		Selective Upcycling of Commodity PVC/PET Plastic Mixture via Mechanochemical Reaction Gyeongjin Kwon <i>Yonsei University</i>	Ultra-high molecular weight polymeric hydrogels Md Saifur Rahaman <i>Australian National University</i>
1535 – 1605	Afternoon Refreshments & Trade Exhibition			Rex Ballroom



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	Polymers for Health	Polymers in Industry and Translation <i>Sponsored by</i> 	Polymer Sustainability	Advanced polymer synthesis and characterisation
Location	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair	Dr Edgar Wong University of New South Wales	Dr Tim Davey Dulux	Dr Zhongfan Jia Flinders University	A/Prof Markus Muellner The University of Sydney
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1610 – 1640	Static or Dynamic? The Role of Polymer Assembly Dynamics in Biological Interactions Dr Johannes C Brendel <i>University of Bayreuth</i>	CO ₂ -Switchable Surfactants Enhance the Water Resistance of Latex-Based Coatings Prof Michael Cunningham <i>Queens University</i>	Polymerizations with Elemental Sulfur and Commodity Sulfur Chemicals for High Performance Plastics Prof Jeffrey Pyun <i>University of Arizona</i>	Photocatalytic Hydrogen Atom Transfer: A Strategy for Controlled Polymer Degradation, Depolymerization, and Functionalization Prof Cyrille Boyer <i>University of New South Wales</i>
1640 – 1655	Unravelling the Mechanisms of Endosomal Escape via Emulsion Polymeric Nanoparticles for Improved Intracellular Delivery Sahan Samuditha Pathirannahalage <i>Melbourne University</i>	Finding your next research idea in the patent literature Dr Mitchell Nothling <i>Griffith Hack</i>	Continuous, Low Energy, Depolymerisation of Plastics Dr Samuel Smith <i>CSIRO</i>	Polystyrene-b-poly(tert-butyl acrylate) Copolymers via RAFT Emulsion Polymerization: Nanoparticle Morphology Tuning by Selective Hydrolysis Alireza Khatibi <i>University of New South Wales</i>
1655 - 1710	RAFT Polymer-Modified Magnesium Hydride for Precision-Controlled Hydrogen Release in Biomedical Applications Tairan Quan <i>University of New South Wales</i>		Polymer Chain Modification via HAT Chemistry and Its Application in Graft Copolymer Synthesis Manish Kumar <i>University of New South Wales</i>	



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1715 - 1750	Rapid Fire Session – Chair: Prof Justin Chalker	Room 1 & 2
1720 – 1723	Large Language Models for Kinetic Modelling and Rate Coefficient Determinations in Radical Polymerization Amna binte Asghar , <i>Monash University</i>	
1723 – 1726	Investigating the Role of Hydrophobicity in Antimicrobial Peptide Star Polymers Thomas Roads , <i>The University of Melbourne</i>	
1726 – 1729	A Closed-loop and Self-driving Precision Polymer Synthesis Platform Using ML Kvan Jelodare , <i>The University of Melbourne</i>	
1729 – 1732	Development of Vat-photopolymerized Bioactive Scaffolds with Eggshell Powder for Enhanced Bone Regeneration Mahlet Tsedalu Adane , <i>King Fahd University of Petroleum and Minerals</i>	
1732 – 1735	Peptide Self-Assembly Controlled Photoligation of Polymers Bailey Richardson , <i>Queensland University of Technology</i>	
1735 – 1738	Targeting the Viral Membrane: Engineering Polymers to Disrupt Enveloped Viruses Mark-Jefferson Boyetey , <i>Queensland University of Technology</i>	
1738 – 1741	Multifunctional Carbon Dot-based Triazine: A Visible Light-Sensitive Photoinitiator Sourced from Natural Products for Precision 3D Printing Liqiang Li , <i>Australian National University</i>	
1741 – 1744	A Sustainable Processing of Novel Lignocellulose Materials Yovilianda Maulitiva Untoro , <i>University of Queensland</i>	
1744 – 1747	Diet impacts on black soldier fly growth and chitin/chitosan production Risa Otake , <i>Southern Cross University</i>	
1747 - 1750	Polymer-Assisted Coating Layers on Electrode Materials for Highly Stabilized Lithium-ion Batteries Siyoon Yang , <i>Kumoh National Institute of Technology</i>	
1750 - 1920	Poster Session, Canberra Rex Hotel Join us in the Rex Ballroom for drinks and snacks, while you wander and explore our great line up of posters	Proudly sponsored by  TOSOH BIOSCIENCE TOSOH



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Tuesday 9 December 2025

Location

0800 - 1800	Registration Desk Opens			Foyer
0800 - 1700	Speaker Room Open —presenting today; please ensure you upload your presentation at least 2 hours before you are scheduled on stage.			Boardroom
0830 - 1600	Trade Exhibition Opens			Rex Ballroom
	Plenary Session – Chair: A/Prof James Blinco			Room 1 & 2
0900 – 0910	Welcome to Day 3 - A/Prof James Blinco, Queensland University of Technology			
0910 - 0955	Plenary Presentation 3 – Supramolecular Plastics for a Sustainable Future Dr Takuzo Aida, The University of Tokyo			Proudly sponsored by  TOSOH BIOSCIENCE TOSOH
0955 - 1025	Morning Refreshments & Trade Exhibition			Rex Ballroom
	Biomaterials	Composites, colloids and processing	Polymers in Energy	Additive Manufacturing
Location	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair	Prof Kristopher Kilian University of New South Wales	Dr Vipul Agarwal University of New South Wales	Prof Justin Chalker Flinders University	A/Prof Stuart Thickett University of Tasmania
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 – 1100	Polymer Therapeutics and Vaccines for Diseases of Unmet Need Prof Cameron Alexander <i>University of Nottingham</i>	RAFT design of aqueous-dispersed polymer nanostructures for organic electronics and photocatalytic applications Dr Thiago Guimares <i>University of Bordeaux</i>	Trimodal Thermal Energy Storage Materials Dr Karolina Matuszek <i>Monash University</i>	RAFT-Mediated 3D Printing: Our Path to Functional Materials Dr Ali Bagheri <i>University of New England</i>



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			Keynote Speaker	Keynote Speaker
1100 - 1115	Development of Hydrogels for Artificial Epidermis Applications Lilian Boton <i>Australian National University</i>	Bioinspired mechanochromic vitrimers based on chiral nematic cellulose nanocrystals Dr David Mendoza <i>Monash University</i>	Sulfur-Rich Polymers for Sustainable and High-Performance Triboelectric Energy Harvesting Dr Jeong Jae Wie <i>Hanyang University</i>	Multiscale Control of Shape and Materials Chemistry in Photoinduced 3D Printing Dr Nathaniel Corrigan <i>University of New South Wales</i>
1115 - 1130	Polypeptide-based single chain nanoparticles inspired by proteins Devesh Maurya <i>University of New South Wales</i>	Antibacterial PLA by incorporating polymer-coated nanoparticles Dr Ivan Restrepo <i>University Alberto Hurtado</i>		
1130 – 1145	Determining the Standard Melting Enthalpy of Polycaprolactone through Fast Scanning Calorimetry aided by Automated Data Analysis through Machine Learning Thayanithi Ayyachi <i>Queensland University of Technology</i>	An advanced automated continuous flow platform for high-throughput screening and autonomous particle size targeting in block copolymer self-assembly Lakshani Weeraratna <i>Monash University</i>	Electrochemical Energy Storage in Polymers: Why and How? Dr Zhongfan Jia <i>Flinders University</i>	Nanostructure control of 3D printed materials by macromolecular architecture design Di Wu <i>University of New South Wales</i>
1145 - 1200	Elucidating Biomacromolecular Architectures through Photochemistry Dr Hendrik Frisch <i>Queensland University of Technology</i>	Robustness of emulsion-based polymerization techniques for preparation of polymer nanocomposite coatings Yue Zhang <i>University of New South Wales</i>	Verifying the ionic conductivity and ratio of bound water trade-off in photocatalytic seawater splitting Yih-sueh Chen <i>Institute of Materials Science and Engineering</i>	Direct Ink Writing of Nanostructured Thermosetting Materials via Block Copolymer Self-Assembly Yuan Xiu <i>University of New South Wales</i>



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1200 – 1215	Oxygen-Tolerant Photo-RAFT-PISA for the In-Situ Synthesis of Reduction-Responsive Protein-Polymer Nanoparticles Dr Vinod Kumar Kannaujiya <i>University of New South Wales</i>	Defect Free Rubbery Hyperbranched PEG-based Gas Diffusion Membranes Tommy Hatzimanolis <i>Australian Institute for Bioengineering and Nanotechnology</i>	Advanced polymer microstructure engineering for optimizing 3D printed solid polyelectrolytes Qian Huang <i>University of New South Wales</i>	Open-Air, Ultrafast Photoiniferter Polymerisation Enables 3D Printing with Low-Viscosity Resins Dong Su <i>University of New South Wales</i>
1215 - 1230	Diet impacts on black soldier fly growth and chitin/chitosan production Risa Otake <i>Southern Cross University</i>	Performance of Glass Fibre Reinforced Polymer Composites in Cryogenic Environments Jared Ng <i>University of Canterbury</i>	Anion Exchange Membrane Based on Tröger's Base Polymers of Intrinsic Microporosity Dr Basiram Brahma Narzary <i>University of Queensland</i>	
1230 - 1245			Cyclodextrin - Based Polymer Gels as High-Performance Cathode Materials for Four-Electron Zinc – Iodine Batteries Shangxu Jiang <i>Flinders University</i>	
1245 - 1345	Lunch & Trade Exhibition			



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	Biomaterials	Polymers in Industry and Translation <i>Sponsored by</i> 	Polymers in Energy	Additive Manufacturing
Location	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair	Dr Jan Lauko University of Queensland	Dr Ramon Tozer Davies Collison Cave	Dr Zhongfan Jia Flinders University	Dr Ali Bagheri University of New England
	Keynote Speaker	Keynote Speaker		Keynote Speaker
1350 - 1405	Engineering blood vessels and vascularized tissues: key steps towards clinical translation of tissue engineering Prof Andrea O'Connor <i>The University of Melbourne</i>	Commercialisation of complex polymers for medical use Stewart Bartlett <i>Ferronova Pty Ltd</i>	Band Engineering of Poly[Ni ₂ -ettbtt] Unlocks Record Performance in a 1D n-Type Thermoelectric Polymer Dr Jahanzeb Khan <i>King Fahad University of Petroleum and Minerals</i>	Using the (light-)switch in light-based 3D printing to create property-changes on demand Dr Katharina Ehrmann <i>Technische Universität Wien</i>
1405 - 1420			Radical oligomer-grafted cellulose as a cathode for sustainable aqueous zinc ion battery Chanaka Mudugamuwa <i>Flinders University</i>	



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		Keynote Speaker		
1420 – 1435	Polymer implants for delivery of vaccine boosters Prof Tim Dargaville <i>Queensland University of Technology</i>	Regulatory considerations of complex polymers for medical use Dr Melanie Nelson <i>Ferronova Pty Ltd</i>		Fabrication of Lipoic Acid-Based Nanoporous Networks via Photoinitiated Polymerization-Induced Microphase Separation Xueheng Dai <i>University of New South Wales</i>
1435 - 1450	Influence of AFM cantilever calibration and contact mechanics modelling on the nanomechanical properties of protein films Kshitij Thapa <i>University of Canterbury</i>			Xolography for Rapid Volumetric Production of materials from the Nanoscopic to Macroscopic Length Scales Xichuan Li <i>University of New South Wales</i>
		Keynote Speaker		
1450 - 1505	Impact of End-Cap Variations on Endosomal Escape of Self-Immolative Polymers Bin Leng <i>The University of Melbourne</i>	Solving Australia’s plastic waste challenges through industry-driven collaborative research Dr Ian Dagley <i>Solving Plastic Waste CRC</i>		3D Printing Resin Chemistry via Polymerizable Eutectic Mixtures A/Prof Stuart Thickett <i>University of Tasmania</i>
1505 - 1520				
1525 – 1555	Afternoon Refreshments & Trade Exhibition			Rex Ballroom



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1600 - 1720	Rising Stars in Oz Polymers – Chair: Dr Nathan Boase	Room 1 & 2
1600 - 1620	Morphological Design of Unconventional Polymer Nanostructures and Their Implications in Nanomedicine Dr Valentin Bobrin , <i>The University of Queensland</i>	
1620 - 1640	Covalent capture of polymer nanoparticles, vesicles and nanoparticle-stabilised oil droplets on hydrophilic polymer brushes Dr Edwin Johnson , <i>University of Newcastle</i>	
1640 – 1700	Making and un-making poly(trisulfides) with light: precise regulation of radical concentrations via pulsed LED irradiation Dr Thomas Nicholls , <i>Flinders University</i>	
1700 - 1720	Synthesis of Degradable Vinyl Copolymers Based on Lipoic Acid via Ab Initio Emulsion Polymerization Dr Yasemin Fadil , <i>University of New South Wales</i>	
1730 - 1830	APS Annual General Meeting, all members are welcome	Room 1 & 2
1915 – 2130	Student Night - included in your registration, come along and join in the quiz night; and meet your colleagues from around Australia	Hopscotch Bar, 5 Lonsdale St, Braddon
1915 - 2130	E/MCRs Night Out, own expense, but a great chance to catch up	Check the app for the location



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Wednesday 10 December 2025		Location
0800 - 1600	Registration Desk Open	Foyer
0800 - 1500	Speaker Room Open —presenting today; please ensure you upload your presentation at least 2 hours before you are scheduled on stage	Boardroom
0830 - 1545	Trade Exhibition Opens	Rex Ballroom
	Plenary Session - Chair: Prof Tanja Junkers	Room 1 & 2
0900 – 0910	Welcome to Day 4 - Prof Tanja Junkers, Monash University	
0910 - 0955	Plenary Presentation 4 Synthesis as a Tool for Expanding the Scope of Semiconducting Polymers Dr Christine Luscombe , Okinawa Institute of Science and Technology	Proudly sponsored by  ROYAL AUSTRALIAN CHEMICAL INSTITUTE
0955 - 1025	Morning Refreshments & Trade Exhibition	Rex Ballroom

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	Polymers for Health	Polymers in Industry and Translation <i>With thanks to our Theme Sponsor</i> 	Polymer Sustainability	Advanced polymer synthesis and characterisation
Location	Room 1 & 2	Room 5	Room 3 & 4	Room 6
Chair	Dr Cassandra Callmann The University of Texas at Austin	Dr Tim Davey Dulux	Prof Justin Chalker Flinders University	Prof Tanja Junkers Monash University
	Keynote Speaker	Keynote Speaker	Keynote Speaker	Keynote Speaker
1030 - 1100	Smart Fluorosurfactant-Enabled Microfluidic Droplet Generation for Tissue Engineering Applications Dr Ruirui Qiao <i>University of Queensland</i>	Methyl cellulose and redispersible powders: two types of polymers in dry-mix applications – effect on carbon footprint Harold Schoonbrood <i>Dow</i>	Advancing Biomass Valorisation for Sustainable Material Innovation Dr Lalevash Moghaddam <i>The University of Queensland</i>	Exploring Ring-Opening Polymerization in the Realm of Polyethers Prof Byeong-Su Kim <i>Yonsei University</i>
1100 - 1115	Gene Delivery with Dual pH- and GSH-responsive Lipoamide Polymers from Controlled Polymerization of Protected Lipoic Acid Fan Yang <i>The University of Melbourne</i>	Bridging synthesis with application of conducting polymers Prof Drew Evans <i>University of South Australia</i>	Degradable Polymer Films: RAFT-mediated Emulsion Copolymerization of Lipoic Acid with Vinyl Monomers Dr Steven Thompson <i>University of New South Wales</i>	Quantitative Evaluation of Crosslinking Efficiency in Worm-Like Nanoparticles Prepared via RAFT-Mediated Aqueous Emulsion PISA Zixiao Liu <i>University of New South Wales</i>
1115 - 1130	pH-Responsive Bottlebrush Copolymer Nanodiscs with Tunable Size for Combating Cell Metastasis Ping Zeng <i>The University of Sydney</i>		Water harvesting polymers Moki Thanusing <i>Australian National University</i>	Unimolecular, Core-Shell Polymer Bottlebrush-Based Signal Transducer Using Solvatochromatic Reporting Chenyou Zhang <i>The University of Sydney</i>



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1130 – 1145	Reliable Photopolymerization-Induced Self-Assembly of Protein and Enzyme Loaded Nanoparticles with Precision Control Over the System Variables Irma Vermeijlen <i>The University of Queensland</i>	Poly(hydroxybutyrate)-based Smart Films for Drug Delivery Applications. Dr Vinod Kumar Kannaujiya <i>University of New South Wales</i>	Enzymatic epoxy-acid vitrimer curing explored by model reactions and rheology April Synhur <i>Monash University</i>	Quaternary ammonium eutectogels as a printable, antimicrobial material platform Alma Nicolau <i>University of Tasmania</i>
1145 - 1200	Investigations into Biodistribution of Nanoparticles using Microfluidic in Vitro Models Zeyan Xu <i>University of New South Wales</i>	Characterising the multiple-plastic degrading strain of Bacillus subtilis GM_03 from the Galleria mellonella microbiome Fiona Facey <i>Macquarie University</i>	Enzyme-Inspired Design of Polymer-Supported Catalysts for Applications in Electrochemistry Imogen Smith <i>Flinders University</i>	Self-Assembly of Amorphous and Functional Polymer Nanodiscs in Water A/Prof Markus Muellner <i>The University of Sydney</i>
	Composites, colloids and processing			
1200 – 1215	Mechanically and Electrically Robust Polymer/rGO Nanocomposite Coatings Synthesis via Miniemulsion Polymerization for Corrosion Protection of Steel Siti Humairah Harun <i>University of New South Wales</i>	Advances in Light Scattering Detection for the Characterization of Polymers Used in Drug Delivery Dr Snezana Dordevic <i>Tosoh Bioscience</i>	Circular Economy of Plastics: Latest Innovation for Identifying and Analysing Unknown Compositions Andrew Gillen <i>NETZSCH</i>	Enabling Machine Learning for Polymers: Why Its Hard and What We Can Do Chloe Lin <i>Australian National University</i>
1215 - 1315	Lunch & Trade Exhibition – make sure you say hello to our supporting organisations			Rex Ballroom



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	Biomaterials	Polymers in Industry and Translation <i>Sponsored by</i> 	Polymer Sustainability
Location	Room 1 & 2	Room 5	Room 3 & 4
Chair	Prof Kristopher Kilian University of New South Wales	Dr Priya Subramanian Dulux	Dr Zhongfan Jia Flinders University
	Keynote Speaker	Keynote Speaker	Keynote Speaker
1320 - 1350	Phototunable control of hydrogel stress relaxation for creating 3D cellular microenvironments Prof Steven Caliri <i>University of Virginia</i>	Translational Research – From Benchtop to Banknote Sani Muke <i>Reserve Bank of Australia</i>	Measuring Quality and Quantity when Recycling Plastics Prof Michael Shaver <i>University of Manchester</i>
	Keynote Speaker	Keynote Speaker	Keynote Speaker
1350 - 1420	Elucidating distinct roles of extracellular matrix in cardiac aging Asst Prof Jennifer Young <i>National University of Singapore</i>	Polymer Banknote Sustainability and the Underestimated Art of Upscaling Dr Holger Krumm <i>CCL Secure</i>	Sustainable Polymer and Composite development at CSIRO Dr Ranya Simons <i>CSIRO</i>
1420 - 1450	Afternoon Refreshments & Trade Exhibition		Rex Ballroom



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	Plenary Session – Chair: Prof Luke Connal	Room 1 & 2
1455 - 1540	Plenary Presentation 5 Pushing the Limits of Polymer Science through Sustainable Building Blocks Craig Hawker , <i>California NanoSystems Institute</i>	Proudly sponsored by 
1540 - 1600	Awards Presentation & Symposium Conclusion Professor Luke Connal, <i>Australian National University</i> Bruce Guise Award – Dr Tim Davey David Sangster Award – A/Prof Kristian Kempe	
1830	Coach departure for those attending the Symposium Dinner at the National Arboretum Please arrive on time	
1900 - 2300	Symposium Dinner, National Arboretum Canberra Have a great night	

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