

Polymerisation and depolymerisation chemistry: the second century

8–10 September 2025 | Oxford, UK



**Faraday
Discussions**

Monday 8 September

11:30	Registration with lunch served from 11:45
12:45	Welcome and introductions <i>Chair of Scientific Committee</i>
12:55	Outline of Discussion format <i>Royal Society of Chemistry Publishing Editors</i>
13:00	Introductory Lecture – Spiers Memorial Lecture (Session chair: TBC) Marc Hillmyer <i>University of Minnesota, USA</i>
	Session 1: Novel feedstocks (Session chair: TBC)
14:00	TBC Henri Cramail <i>Laboratoire de Chimie des Polymères Organiques, France</i>
14:05	Blending PHBV with P(3HB-co-4HB) for superior thermal stability, mechanical strength, and environmental degradation Katja Loos <i>University of Groningen, The Netherlands</i>
14:10	Synthesis and ring-opening (co)polymerization of lactones derived from the cotelomerization of isoprene, butadiene, and CO₂ Ian Tonks <i>University of Minnesota, USA</i>
15:30	Refreshments
	Session 1 cont: Novel feedstocks (Session chair: TBC)
16:00	Synthesis of renewable non-isocyanate polyurethanes from algae oil and its fatty acid methyl esters Christopher Kozak <i>Memorial University of Newfoundland, Canada</i>
16:05	Polyglycerol resin towards sustainable 3D-Printing Vincenzo Taresco <i>University of Nottingham, UK</i>
16:10	Chemical recycling of polylactide by microwave-assisted hydrolysis Mina Mazzeo <i>Università di Salerno, Italy</i>
16:15	An old tool to obtain new polymers from renewable resources: [OSSO]-type Titanium-Catalysed Ethylene Copolymerisation with Myrcene Carmine Cappichione <i>Università degli Studi di Salerno, Italy</i>
16:20	Discussion
18:00	Lightning presentations – (by invitation of the Scientific Committee)
18:15	Poster session and drinks reception
19:45	Close

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Tuesday 9 September

	Session 2: Catalysis (Session chair: TBC)
09:00	TBC Kyoko Nozaki <i>The University of Tokyo, Japan</i>
09:05	TBC Sonja Heeres-Pawlis <i>RWTH Aachen University, Germany</i>
09:10	Tailoring the physical properties of macromolecules via stereocontrolled polymerizations using olefin metathesis Quentin Michaudel <i>Texas A&M University, USA</i>
09:15	Discussion
10:30	Refreshments
	Session 2 continued: Catalysis (Session chair: TBC)
11:00	Selective transesterification mediated by lanthanum complexes in the copolymerization of lactide and delta-valerolactone Rachel Platel <i>Lancaster University, UK</i>
11:05	Compounds with substituted proline scaffolds as catalysts for ROCOP reactions Debashis Chakraborty <i>Indian Institute of Technology Madras, India</i>
11:10	Automated estimation of lactone ring opening energetics Charles Romain <i>Imperial College London, UK</i>
11:15	Discussion
12:30	Lunch
	Session 3: Closing the loop – the chemistry of depolymerisation, polymer recycling and environmental degradation (Session chair: TBC)
13:45	Revisiting the thermodynamics of ring-opening polymerization Karin Odellius <i>KTH Royal Institute of Technology, Sweden</i>
13:50	High purity monomer recovery via direct depolymerisation Derek Irvine <i>University of Nottingham, UK</i>
13:55	Introducing weak linkages into polyolefin chains via post-polymerization modification Arnaud Thevenon <i>Utrecht University, The Netherlands</i>
14:00	Discussion
15:15	Refreshments
	Session 3 cont: Closing the loop – the chemistry of depolymerisation, polymer recycling and environmental degradation (Session chair: TBC)
15:45	Is solvent based dissolution and precipitation an effective pretreatment for enzymatic depolymerisation of poly(ethylene terephthalate)?

	Victoria Bemmer <i>University of Portsmouth, UK</i>
15:50	On-demand manufacture of circular 3D printing resins Arianna Brandolese <i>University of Birmingham, UK</i>
15:55	Borane-catalyzed depolymerization of polycarbonates Francesca Kerton <i>Memorial University of Newfoundland, Canada</i>
16:00	Discussion
17:15	Lightning presentations – (by invitation of the Scientific Committee) (TBC)
17:30	Poster session and refreshments (TBC)
19:00	Conference dinner

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Wednesday 10 September

	Session 4: Polymerisation processes and computational methods to control structure (Session chair: TBC)
09:00	Depolymerization of methacrylates via a combination of flow chemistry and in-line dialysis Tanja Junkers <i>Monash University, Australia</i>
09:05	Patterning and functionalising non-spherical nanoparticles Rachel O'Reilly <i>University of Birmingham, UK</i>
09:10	AI/ML optimization workflows in polymer synthesis: Towards autonomous laboratories Rigoberto Advincula <i>University of Tennessee, USA</i>
09:15	Discussion
10:30	Refreshments
	Session 4 cont: Polymerisation processes and computational methods to control structure (Session chair: TBC)
11:00	Easy access to block copolymers via selective ring-opening copolymerization Yunqing Zhu <i>Tongji University, China</i>
11:05	Sulfone chain-extended polyurethanes for use as debond-on-demand adhesi Wayne Hayes <i>University of Reading, UK</i>
11:10	Discussion
12:00	Concluding remarks lecture (Session chair: TBC) Stefan Mecking <i>University of Konstanz, Germany</i>
12:30	Acknowledgements and presentation of poster prizes
12:45	Close of meeting and lunch

All timings are in BST

Please note that this is a draft programme and timings may change.