

How can the chemistry of polymers shape our world?

Fundamental questions
Elemental answers

Chemical Science Symposium 2023

26–27 October 2023
London, UK, and online

Day 1 26th October 2023

Time (UK time)		
09:30	Registration and refreshments	
10:00	Welcome and introduction May Copsey Executive Editor <i>Chemical Science</i> Luis Campos, Malika Jeffries-EL, Tanja Junkers Symposium Chairs and Chemical Science Editorial Board members	
Session 1: Chemistry of Polymers Chair: Brett Helms		
10:15	Nanostructured Functional Materials Enabled by Atom Transfer Radical Polymerization Krzysztof Matyjaszewski <i>Carnegie Mellon, USA</i>	Inv 1
10:50	Application of organic catalysis and sustainable chemistry towards AI-assisted materials discovery Jim Hedrick <i>IBM, USA</i>	Inv 2
11:25	Exploration of light responsive materials Javier Read de Alaniz <i>UCSB, USA</i>	Inv 3
12:00	Lunch and posters	
Session 2: Chemistry of Polymers Chair: Helen Tran		
13:30	Crystallization-Driven Precision Two-Dimensional (2D) Assemblies from Chromophore-Conjugated Poly(lactide)s Anindita Das <i>IACS, India</i>	Inv 4
14:05	Plastics Redesign for Circularity Brett Helms <i>Lawrence Berkley National Laboratory, USA</i>	Inv.5
14:40	Oxygenated Polymers For Solid-State Batteries Charlotte Williams <i>University of Oxford, UK</i>	Inv.6

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15:15	Refreshments	
Session 3: Biopolymers Chair: Anindita Das		
15:45	Vinyl Polymer Engineering for the Development of New Materials for Biomedical Applications Julien Nicolas <i>University Paris-Sud, France</i>	Inv 7
Flash poster session Chair: May Copsey		
16:20	Flash poster presentations <ul style="list-style-type: none">• Ella Clark, University of Bath• Thom McGuire, University of Oxford• Claire Morand, University of Birmingham• Galahad O Rourke, University of Leuven• Clara Vazquez Martel, University of Heidelberg	
17:00	Poster reception	
19:00	End of day 1	

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Day 2 – 27th November

08:30	Refreshments	
09:00	Day 2 introduction and welcome (Chairs)	
Session 4: Optoelectronics Chair: Christopher Barner-Kowollik		
09:10	Design of Electroactive Polymers for Intrinsically-Stretchable Polymer Solar Cells Bumjoon Kim <i>KAIST, South Korea</i>	Inv 9
09:45	The unexpected kinetics in the synthesis of polythiophene derivatives Christine Luscombe <i>Okinawa Institute of Science and Technology, Japan</i>	Inv 10
10:20	Advanced functional polymers with aggregation-induced emission Ben Zhong Tang <i>Chinese University of Hong Kong, China</i>	Inv 11
11:00	Refreshments	
Session 5: Recyclable polymers and 3D printing Chair: Eva Blasco		
11:30	Photochemical Action Plots Reveal the Fundamental Mismatch between Absorptivity and Photochemical Reactivity Christopher Barner-Kowollik <i>University of Queensland, Australia</i>	Inv 12
12:10	Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers Brent Sumerlin <i>University of Florida, USA</i>	Inv 13
12:45	Lunch and posters	
13:45	Publishing Session Editors from <i>Chemical Science</i> and <i>Polymer Chemistry</i>	
14:30	Refreshments	

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Session 6: Polymer Assemblies

Chair: Brent Sumerlin

15:00	Sequence-Controlled Peptoid Polymers Helen Tran <i>University of Toronto, Canada</i>	Inv. 14
15:35	Shaping Functional Polymers in 3D Eva Blasco <i>University of Heidelberg, Germany</i>	Inv. 15
16:10	Polymerisation-Induced Self-Assembly (PISA): A Powerful Platform Technology for Bespoke Polymer Particles Steve Armes <i>University of Sheffield, UK</i>	Inv. 16
16:45	Closing remarks and poster presentations May Copsey Executive Editor <i>Chemical Science</i> Luis Campos, Malika Jeffries-EL, Tanja Junkers <i>Symposium Chairs and Chemical Science Editorial Board members</i>	
17:00	Symposium close	