

# 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 26<sup>th</sup> 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	
<b>Session 1: Chemistry of Polymers</b> <b>Chair: Brett Helms</b>		
10:15	<b>Nanostructured Functional Materials Enabled by Atom Transfer Radical Polymerization</b> Krzysztof Matyjaszewski <i>Carnegie Mellon, USA</i>	Inv 1
10:50	<b>Application of organic catalysis and sustainable chemistry towards AI-assisted materials discovery</b> Jim Hedrick <i>IBM, USA</i>	Inv 2
11:25	<b>Exploration of light responsive materials</b> Javier Read de Alaniz <i>UCSB, USA</i>	Inv 3
12:00	Lunch and posters	
<b>Session 2: Chemistry of Polymers</b> <b>Chair: Helen Tran</b>		
13:30	<b>Crystallization-Driven Precision Two-Dimensional (2D) Assemblies from Chromophore-Conjugated Poly(lactide)s</b> Anindita Das <i>IACS, India</i>	Inv 4
14:05	<b>Plastics Redesign for Circularity</b> Brett Helms <i>Lawrence Berkley National Laboratory, USA</i>	Inv.5
14:40	<b>Oxygenated Polymers For Solid-State Batteries</b> Charlotte Williams <i>University of Oxford, UK</i>	Inv.6

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15:15	Refreshments	
<b>Session 3: Biopolymers</b> <b>Chair: Anindita Das</b>		
15:45	<b>Vinyl Polymer Engineering for the Development of New Materials for Biomedical Applications</b> Julien Nicolas <i>University Paris-Sud, France</i>	Inv 7
<b>Flash poster session</b> <b>Chair: May Copsey</b>		
16:20	Flash poster presentations <ul style="list-style-type: none"><li>• Ella Clark, University of Bath</li><li>• Thom McGuire, University of Oxford</li><li>• Claire Morand, University of Birmingham</li><li>• Galahad O Rourke, University of Leuven</li><li>• Clara Vazquez Martel, University of Heidelberg</li></ul>	
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)	
<b>Session 4: Optoelectronics</b> <b>Chair: Christopher Barner-Kowollik</b>		
09:10	<b>Design of Electroactive Polymers for Intrinsically-Stretchable Polymer Solar Cells</b> Bumjoon Kim <i>KAIST, South Korea</i>	Inv 9
09:45	<b>The unexpected kinetics in the synthesis of polythiophene derivatives</b> Christine Luscombe <i>Okinawa Institute of Science and Technology, Japan</i>	Inv 10
10:20	<b>Advanced functional polymers with aggregation-induced emission</b> Ben Zhong Tang <i>Chinese University of Hong Kong, China</i>	Inv 11
11:00	Refreshments	
<b>Session 5: Recyclable polymers and 3D printing</b> <b>Chair: Eva Blasco</b>		
11:30	<b>Photochemical Action Plots Reveal the Fundamental Mismatch between Absorptivity and Photochemical Reactivity</b> Christopher Barner-Kowollik <i>University of Queensland, Australia</i>	Inv 12
12:10	<b>Photocatalysis to synthesize, derivatize, depolymerize, and degrade polymers</b> 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	<b>Sequence-Controlled Peptoid Polymers</b> Helen Tran <i>University of Toronto, Canada</i>	Inv. 14
15:35	<b>Shaping Functional Polymers in 3D</b> Eva Blasco <i>University of Heidelberg, Germany</i>	Inv. 15
16:10	<b>Polymerisation-Induced Self-Assembly (PISA): A Powerful Platform Technology for Bespoke Polymer Particles</b> Steve Armes <i>University of Sheffield, UK</i>	Inv. 16
16:45	<b>Closing remarks and poster presentations</b> 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	<b>Symposium close</b>	