

Rethinking Polymers: Sustainable and Circular by Design

18th November 2024

Royal Society of Chemistry, Burlington House, London

Hosted by CircularChem - National Interdisciplinary Centre for the Circular Chemical Economy, Royal Society of Chemistry & Innovate UK

AGENDA

9 AM to 9:40 AM	Registration, Refreshments & Networking
9:40 AM to 9:55 AM	Welcome and Introductions, Professor Libby Gibson, Newcastle University and CircularChem.
Session 1:	How policy and regulation on polymers impacts industry (current guidelines and standards): Chaired by Duncan Lugton, Head of Policy and Impact, Institution of Chemical Engineers
9:55 AM to 10 AM	Introduction to Session 1: Duncan Lugton, IChemE
10 AM to 10:15 AM	Introductory presentation by Dr Dan Korbel , Royal Society of Chemistry.
10:15 AM to 11 AM	Panel Discussion: Dr Feja Lesniewska , University of Surrey Dr Thomas Baker , WRAP Dr Freya Burton , LanzaTech Dr Nima Roohpour , Reckitt
11 AM to 11:45 AM	Roundtable Discussion on policy impacts on the chemical (and aligned) industry
11:45 AM to 1 PM	Lunch and Networking
Session 2:	Making PLFs industry ready: Chaired by Professor Anju Massey-Brooker, Royal Society of Chemistry
1 PM to 1:05 PM	Introduction to session 2: Professor Anju Massey-Brooker, Royal Society of Chemistry
1:05 PM to 1:25 PM	Introductory presentations: 1.05 – 1.15 PM: Digital Twinning to drive Industrial productivity and Net Zero ambition - Professor Jin Xuan , University of Surrey 1.15 – 1.25 PM: Mass balance accounting as the key enabler for the Green Deal transformation: challenges and opportunities for adoption - Dr Tony Heslop , BASF
1:25 PM to 1:50 PM	Challenges and opportunities for developing Life Cycle Assessment tools for PLFs (5 mins and Q&A) - Dr Lorraine Ferris , Henry Royce Institute Methods and mechanistic understanding of Biodegradability of PLFs (5 mins and Q&A) - Professor Andrew Dove , University of Birmingham Methods & Measurements for studying degradation pathways of sustainable PLFs (5 mins and Q&A) -

	<p>Dr Harry Barraza, National Measurement Laboratory LGC</p> <p>AI/Digital Twinning (Q&A) - Professor Jin Xuan, University of Surrey</p> <p>Mass Balance Chain of Custody (Q&A) - Dr Tony Heslop, BASF</p>
1:50 PM to 2:25 PM	Roundtable Discussions (Topics: Biodegradability, Mass balance chain of custody, LCA, Digital twinning)
2:25 PM to 2:45 PM	Coffee and Networking
Session 3:	Identification and prioritisation of areas where genuine innovation required, chaired by Dr Peter Clark, Innovate UK Business Connect
2:45 PM to 2:55 PM	Opening remarks: Key Reflections from UKCPN - Professor Sally Beken , Fellow IOM3 & Chair of Polymer Group; Honorary Professor, Brunel University; Lead on Circular Plastics Network, Innovate UK Business Connect
2:55PM to 3:45 PM	<p>Panel Discussion, Chaired by Sally & Peter: Big industry perspective on innovation challenges of multinational outside of PLFs, thinking about this form feedstocks and end of life perspective - Dr Gary Walker, Lubrizol</p> <p>Challenges of a chemical recycler looking to put recycled carbon (oil) back into the supply chain - Marvine Besong, DeepTech Recycling</p> <p>Experience of both academia and industry – experiences from TransFire - Professor Matthew Unthank, Northumbria University</p> <p>Experience from working as RTO with industry and academia - Dr Pierre Martin, CPI</p> <p>Research in the development and analysis of sustainable processes and clean energy systems - Professor Rachel Rothman, University of Sheffield</p>
3:45 PM to 4 PM	Interactive voting on innovation priorities
4 PM to 4:10 PM	Closing remarks & next steps – Professor Libby Gibson
4.10 PM to 5 PM	Social Reception and Networking