

Chemical Feedstocks for Sustainable Industry 2024 Agenda

12th December 2024

1100 – 1300 Registration & Lunch

1300 – 1315 Introduction

1315 – 1715 Session 1: Small Molecule Feedstocks

1315 – 1345 *Current challenges in catalytic science to achieve a net zero world.* Prof. Graham Hutchings, Cardiff University, U.K.

1345 – 1415 *Biocatalytic hydrogenation: robust biotechnologies for sustainable chemical manufacturing.* Dr Sarah Cleary, HydRegen Ltd., U.K.

1415 – 1445 *Catalyst innovations for sustainable chemical processes: introducing Topsoe.* Dr Ronan Bellabarba, Topsoe, Denmark.

1445 – 1515 *Tea break*

1515 – 1545 *TBC.* Chris Mason, Appleyard Lees Intellectual Property Law, U.K.

1545 – 1615 *Creating a policy and regulatory landscape to accelerate the commercialisation of bio-based chemicals and materials.* Dr Jen Vanderhoven, BBIA, U.K.

1615 – 1715 Poster flash presentations

1715 – 1900 Posters & Nibbles

1900 – 2200 Conference dinner

13th December 2024

0900 - 0915 – Registration and coffee

0915 – 1230 Session 2: Circular Plastics

0915 – 0945 *New Catalytic Processes for Making and Unmaking Sustainable Polymers.* Prof. Matthew Davidson, iCAST, U.K.

0945 – 1015 *Circularity Challenges for FMCG Packaging Materials.* Dr Emile Engel, Unilever, U.K.

1015 – 1045 *Bio-Upcycling Plastic Waste into Future Medicines.* Prof. Stephen Wallace, University of Edinburgh, U.K.

1045 – 1100 *Tea break*

1100 – 1130 *Creating a Circular Economy for Lab Plastics.* Dr Helen Liang, LabCycle, U.K.

1130 – 1150 *Photo-mediated depolymerisation of commercial PMMA for next-generation additive-free chemical recycling.* Dr Jon Husband, iCAST, U.K.

1150 – 1220 *The Circularity Puzzle and the Role of Plastics in BASF's Strategy.* Dr Lucas Domingues Quintanilha, BASF, U.K.

1220 – 1330 Lunch

1330 – 1700 Session 3: Sustainable Chemicals from Underutilised Biomass

1330 – 1400 *Catalytic upgrading of terpenes and fatty acids into functionalized polymers.* Prof. Arjan Kleij, ICIQ, Spain.

1400 – 1430 *Softwood lignin as a versatile feedstock for advanced materials.* Louie Johnson, Sonichem Technologies Limited., U.K.

1430 – 1500 *Bio-based chemicals and sustainable materials from UK's urban forest.* Dr Roberto Rinaldi, Imperial College London, U.K.

1500 – 1520 *Protein engineering of Acetyl Xylan Esterase for enhanced biomass conversion, improved activity and stability in acidic environments.* Sadia Sarwar, University of Salford, U.K.

1520 – 1535 *Tea break*

1535 – 1555 *AI-optimized, microwave-assisted, solvent extraction of lignin from underutilized biomass, and bioconversion of its depolymerized products into biopesticides.* Dr Obinna Ofoegbu, Joseph Sarwuan Tarka University, Makurdi, Nigeria.

1555 – 1625 *NatureFlex™: Sustainable Flexible Packaging for Today, and Tomorrow.* Megan Orr, Futamura, U.K.

1625 – 1655 *Decarbonising the Chemical Industry.* Fiona Campbell, Johnson Matthey, U.K.

1655 – 1715 Closing remarks & Poster Prize

