



Day 1, Thursday 18 November 2021



How can Process Chemistry and Technology Enable Sustainability?

What is sustainability as it relates to your work in the chemical sciences and industries?

What kinds of challenges are there where process chemistry and technology could enable solutions?

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| 09:00 | 09:10 | Carl Steele, PCTG committee Chair | Welcome, introduction to the PCTG, and the topics for the day. |
| | | Professor Tom Welton, Imperial College | |
| 09:10 | 09:20 | London | Introduction to sustainability |
| 09:20 | 09:40 | Dr Jason Camp, Circa | Levogluosenone – A sustainable platform chemical from waste biomass |
| 09:40 | 09:50 | Session Speakers | Q&A |
| 09:50 | 10:00 | Break | |
| 10:00 | 10:20 | Dr Darren Budd, BASF | Creating chemistry for a sustainable future |
| 10:20 | 10:40 | Dr Robin Taylor, NNL | Increasing the sustainability of the nuclear fuel cycle by recycling actinides |
| 10:40 | 10:50 | Session Speakers | Q&A |
| 10:50 | 11:00 | Break | |
| | | Dr Nicholas Jose, Cambridge University | From Physics to Artificial Intelligence – how integrating new methodologies can improve the sustainability of nanomaterial manufacturing |
| 11:20 | 11:40 | Mr Tamás Papp, Vinyl | Safely handling chemical liquids adhering to Circular Economy principles |
| 11:40 | 11:50 | Session Speakers | Q&A |
| 11:50 | 12:00 | Break | |
| | | Moderated by Mariyam Bi and Dr Bethan | |
| 12:00 | 12:30 | Coulson | Panel discussion on the topics of the day, with speakers from the day. |
| 12:30 | 12:40 | | Q&A and closing comments. |

Moderator: Mariyam Bi, The University of Sheffield



Day 2, Friday 19 November 2021



How can Process Chemistry and Technology Enable Sustainability?

Are there examples of success that we can learn from?

What problems are there for which we don't yet know the solution?

What can you and your organisation do towards sustainability through innovation in process chemistry and technology?

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| 09:00 | 09:10 | Carl Steele, PCTG committee Chair | Welcome and introduction to the topics for the day. |
| 09:10 | 09:30 | Professor Thanh Nguyen, UCL | Sustainability of nanomaterials for biomedical applications |
| 09:30 | 09:50 | Dr Mike Kember, Eonic | Catalyst technologies using CO ₂ to make polymers |
| 09:50 | 10:00 | Session Speakers | Q&A |
| 10:00 | 10:10 | Break | |
| 10:10 | 10:30 | Dr Steven Swallow | Towards Sustainable API Processes |
| 10:30 | 10:50 | Dr Stuart Coles, University of Warwick | Using assessments to improve process sustainability |
| 10:50 | 11:00 | Session Speakers | Q&A |
| 11:00 | 11:10 | Break | |
| 11:10 | 11:30 | Dr Ben Deadman, Imperial College London | How can the Centre for Rapid Online Analysis of Reactions help improve sustainability and scalability |
| 11:30 | 11:50 | Dr Avtar Matharu, University of York | Production of sustainable products from unavoidable food wastes |
| 11:50 | 12:00 | Session Speakers | Q&A |
| 12:00 | 12:10 | Break | |
| 12:10 | 12:30 | Dr Kay Williams, DEFRA | What problems are there for which we don't yet know the solution? |
| 12:30 | 12:55 | Moderated by Dr Kay Williams and Dr Thanh Nguyen | Panel discussion on the topics of the day, with speakers from the day. |
| 12:55 | 13:00 | | Closing remarks, and next steps |

Moderators: Dr Kay Williams, DEFRA (0900-1100) and Dr Bethan Coulson, Johnson Matthey (1100-1300)