



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?

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 London	
09:10	09:20		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	
11:00	11:20	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 Coulson	
12:00	12:30		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?

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 <sub>2</sub> 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)