

EBNet Research Colloquium Provisional Programme

Wednesday 22 January 2020	
19:00-21:00	Evening Networking Dinner (19.00 for 19.30)
Thursday 23 January 2020	
09:00-09:10	Introduction to the Environmental Biotechnology Network (EBNet) Prof Sonia Heaven, University of Southampton
09:10-09:30	Renewable Resources and Clean Growth Dr Roderick Westrop, BBSRC
09:30-09:35	EBNet Theme 1 Overview: Biosciences and engineering Prof Sonia Heaven, University of Southampton
09:35-10:00	Engineering biological systems: pitfalls and opportunities (TBC) Prof Charles Banks, University of Southampton
10:00-10:25	Metagenomics measurements for microbial systems engineering Prof James Chong, University of York
10:25-10:55	Coffee and Posters
10:55-11:00	EBNet Theme 2 Overview: Pollutants and media Prof Fred Coulon, Cranfield University and Dr Tony Gutierrez, Heriot-Watt University
11:00-11:25	Bioprospecting for new enzymes in petroleum-degrading microorganisms Prof Peter Golyshin, Bangor University
11:25-11:50	Estimating natural attenuation rates at hydrocarbon contaminated sites using closed and open flux chambers Prof Renato Baciocchi, University of Rome "Tor Vergata"
11:50-12:15	In Situ Bioremediation, Using Microbial Biotechnology to Clean Up Soil and Groundwater, challenges posed by Biogenic and Xenobiotic Contaminants: Ian Ross, Arcadis
12:15-13:00	FLASH Presentations: Chair: Prof Joseph Akunna, Abertay University Managing Fat, Oil and Grease (FOG) Deposits with bio-additive products Natalia Jawiarczyk, Cranfield University Using genetic modification and strain intermixing to engineer visco-elasticity of bacterial biofilms Dr Saikat Jana, University of Leeds Applying metatranscriptomics to identify rate limiting enzymatic steps in anaerobic digestion microbial communities Dr James Robson, University of York Exploiting thermophilic bacteria for the conversion of environmental waste into bioenergy Dr Jose Munoz, Northumbria University
13:00-13:45	Lunch and Posters
13:45-13:50	EBNet Theme 3 Overview: Technology interfaces Dr Jhuma Sadhukhan, University of Surrey
13:50-14:15	Integration, innovation and optimisation for sustainable processes: Carbon Solutions for EB Prof John Andresen, Heriot-Watt University
14:15-14:40	Flying Towards Greener Skies with Low Carbon Jet Fuels Dr Bing Xu, Heriot-Watt University
14:40-15:05	Corporate social responsibility and environmental strategy (TBC) Dr Forbes McDougall, Newcastle University
15:05-15:30	The meanings and value of public engagement around environmental science and technology Prof Steven Yearley, University of Edinburgh
15:30-16:00	FLASH Presentations: Sustainability appraisal of coupled Anaerobic Digestion (AD) and Gasification/Pyrolysis systems Dr Robin Curry, Queen's University Belfast The Biological Upcycling of Metals Dr Louise Horsfall, University of Edinburgh Exploring Intermediates of Anaerobic Digestion for Resource Recovery Sarah Hunter, UCL
16:00	Closing remarks and opportunity for final networking and questions Prof Sonia Heaven, University of Southampton