

DAY 1 - MONDAY 28 JUNE 2021

SESSION 1: 09:00 AM - 10:20 AM		Waste Management Chair: Sanjay Nagarjan, Queen's University Belfast Co-chair: David Livingstone, Queen's University Belfast	
09:00:00	09:15 AM	Arinze Ezieke University of Queensland	Management and valorisation of waste from the berry sector via AD
09:15 AM	09:30 AM	Serena Simonetti University of Aberdeen	Acidogenic fermentation of model food waste for the production of added-value chemicals: effect of substrate concentration and residence time
09:30 AM	09:45 AM	Cynthia Okoro-Shekwaga University of Leeds	In-situ biomethanisation using food waste: effect of sequential hydrogen acclimation
09:45 AM	10:00 AM	Precious Egbuikwem University of Surrey	Treatment and agricultural reuse of mixed industrial and domestic wastewater reclaimed by biological process and ozonation
Posters:			
10:00 AM	10:10 AM	Sarah Hunter University College London	Evaluating the impact of substrate chemical structure on anaerobic digestion of food waste
10:10 AM	10:20 AM	Rachel Schwartz-Narbonne Sheffield-Hallam University	Lipid biomarker tools to characterize wastewater reactor microbial communities
10:20 AM	11:00 AM	BREAK	
SESSION 2: 11:00 AM - 12:15 PM		Biochemical Valorisation Chair: David Livingstone, Queen's University Belfast Co-chair: Sanjay Nagarajan, Queen's University Belfast	
11:00 AM	11:15 AM	Cristina Marzo Gago University of Cádiz	Production of lactic acid from exhausted sugar beet pulp by biotechnological process
11:15 AM	11:30 AM	Seongbong Heo University of Southampton	Integration of enrichment and production for PHA by decoupling carbon and nutrient limitation
11:30 AM	11:45 AM	Tararag Pincam University of Southampton	Combined alkaline and thermal pretreatment for enhanced volatile fatty acids production and phosphorus release from sewage sludge
11:45 AM	12:00 PM	Maria Ramos Suarez University of Southampton	Fed-batch acidogenic fermentation of organic residual solids: effect of different feeding modes
12:00 PM	12:15 PM	Robert Colston Cranfield University	Enhanced phosphorus removal and struvite recovery from fresh urine using biomineralisation

DAY 2 - TUESDAY 29 JUNE 2021

SESSION 3: 09:00 AM - 10:20 AM		Complex Microbial Communities Chair: Bing Guo, University of Surrey Co-chair: Rachel Schwartz-Narbonne, Sheffield Hallam University	
09:00 AM	09:15 AM	Viviane Runa University of Bath	New approaches to microbial ecology in biological phosphorus removal systems
09:15 AM	09:30 AM	Pavlina Theodosiou Newcastle University	Electroactive bacteria: How cool are they
09:30 AM	09:45 AM	Fabien Cholet University of Glasgow	Nitrification in coastal sediment driven by an unknown low-abundance AOB cluster
09:45 AM	10:00 AM	Anastasiia Kostrytsia University of Glasgow	DNA-SIP metagenomics to recover active ammonia- and nitrite oxidisers
Posters:			
10:00 AM	10:10 AM	Roman Bielski Loughborough University	Investigating metabolic diversity of ANAMMOX bacteria using pan-genome analysis
10:10 AM	10:20 AM	Beatriz Delgado-Corrales Northumbria University	Studying indoor air microbiome dynamics to promote a healthier environment
10:20 AM	11:00 AM	BREAK	
SESSION 4: 11:00 AM - 12:30 PM		(Novel) Applications for microbial electron transfer Chair: Natalia Jawiarczyk, Cranfield University Co-chair: Angela Sherry, Northumbria University	
11:00 AM	11:15 AM	Emma Beirns Imperial College London	Co-metabolism of sulfonamides in anaerobic wastewater treatment incorporating direct interspecies electron transfer
11:15 AM	11:30 AM	Zhongli Wang Nottingham University	Biological selenate removal and recovery of selenium nanoparticles using iron-oxidizing microbial consortium
11:30 AM	11:45 AM	Maira Anam Nottingham University	Advanced three-dimensional anode structure for improved biophotovoltaic system operation
11:45 AM	12:00 PM	Jordan Day Newcastle University	A scalable model of biofilm behaviour and fluid flow in microbial electrochemical technologies
Posters:			
12:00 PM	12:10 PM	Radwa Ibrahim Westminster University	Development of photosynthetic microbial fuel cells for azo dye degradation
12:10 PM	12:20 PM	Chenxiao Liu McGill University	Adding zero valent iron in improving low temperature anaerobic digestion with ozonated waste activated sludge
12:20 PM	12:30 PM	Najiaowa Yu University of Alberta	Differentiated biofilm communities on various packed granular activated carbon (GAC) in wastewater anaerobic digestion

DAY 3 - WEDNESDAY 30 JUNE 2021

SESSION 5: 09:00 AM - 10:50 AM		<u>Cross-disciplinary Environmental Biotechnology Applications</u> Chair: Pavlina Theodosiou, Newcastle University Co-chair: Martina Daute, Abertay University	
09:00 AM	09:30 AM	Angela Sherry Northumbria University Jane Scott University of Newcastle	Fibre Highways: translocation of the microbiome for hydrocarbon bioremediation
09:30 AM	09:45 AM	Yuxiu Chen University of Surrey	Biocoatings: Painting bacteria on surfaces
09:45 AM	10:00 AM	Maryam Lamere University of Western England	Lessons learnt from field trials of the Pee Power® in Uganda, Kenya and South Africa
10:00 AM	10:15 AM	David Livingstone Queen's University Belfast	Reducing the climate impact of intensive agriculture with strategically positioned willow coppice
10:15 AM	10:20 AM		<u>Comfort break, followed by Posters:</u>
10:20 AM	10:30 AM	Yuwei Pan Cranfield University	<i>A paper-based electrochemical aptasensor for monitoring antibiotics in water</i>
10:30 AM	10:40 AM	Xiaoqi Wen University of Southampton	<i>Biochemical and microbial interactions with advanced coatings and sealants in biotechnology</i>
10:40 AM	10:50 AM	Natalia Jawiarczyk Cranfield University	<i>Bioadditives as an effective sewer fat, oil and grease (FOG) deposit management.</i>
10:50 AM	11:05 AM		BREAK
SESSION 6: 11:05 AM - 12:30 PM		<u>Engineering for higher yields</u> Chair: Cynthia Okoro Shekwaga, University of Leeds Co-chair: Natalia Jawiarczyk, Cranfield University	
11:05 AM	11:20 AM	Khaled Almoalimi University of Southampton	Impact of draw solution type and chemistry on ammonia rejection during the thin-film composite (TFC) forward osmosis process
11:20 AM	11:35 AM	Aaron Brown University of Leeds	Valorisation of alternative feedstocks via the integration of hydrothermal carbonisation and anaerobic digestion
11:35 AM	11:50 AM	George Hurst Manchester Metropolitan University	Solid residue by-product from levulinic acid production as biogas enhancers and microbial diversity promoter in anaerobic digestion
11:50 AM	12:05 PM	Sanjay Nagarajan Queen's University Belfast	Using vortex-based hydrodynamic cavitation pre-treatment for enhancing biomethane yield from maize husk
12:05 PM	12:20 PM	Chai Lee University of Nottingham	Economic analysis of noncatalytic and catalytic supercritical water gasification with lignocellulosic biomass waste as feedstock
			<u>Posters:</u>
12:20 PM	12:30 PM	Joseph Weaver Newcastle University	<i>Modelling environmental bioreactors treating wastewater by integrating biological processes, floc microenvironments and computational fluid dynamics</i>

DAY 4 - THURSDAY 01 JULY 2021

SESSION 7: 09:00 AM - 10:45 AM		Enzymes and 'omics Chair: Angela Sherry, Northumbria University Co-chair: Bing Guo, Cranfield University	
09:00 AM	09:15 AM	Prasenjit Ghosh National Institute of Technology Goa (India)	Bacterial degradation of carbazole, degradation pathway and elucidation of uptake mechanism
09:15 AM	09:30 AM	Alice Banks Imperial College London	Polyethylene terephthalate (PET) monomer metabolism and adaptation in environmentally isolated bacteria
09:30 AM	09:45 AM	Reihaneh Bashiri Newcastle University	Poor lipid degradation in low-temperature anaerobic treatment of domestic wastewater
09:45 AM	10:00 AM	Valentine Okonkwo Glasgow University	Suitability of the int1 gene as proxy for inferring antimicrobial-resistance pollution: optimal int1 primer selection
10:00 AM	10:15 AM	John Allan Northumbria University	New microbial chassis and new enzymatic technologies for MSW valorisation
Posters:			
10:15 AM	10:25 AM	Umar Abdulmutalib University of Surrey	Enzymatic degradation of polyethylene terephthalate (PET) plastic: a greener approach to plastic recycling
10:25 AM	10:35 AM	Josephine Giard Heriot-Watt University	Diversity analysis and genome mining of microbial DNA data for the discovery of novel antibiotics
10:35 AM	10:45 AM	Fatima Ceballos Rodriguez-Conde University College London	Construction of a plastic-degrading synthetic microbial community
10:45 AM	10:45 AM	CLOSE	