

## DAY 1 - MONDAY 28 JUNE 2021

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

## DAY 2 - TUESDAY 29 JUNE 2021

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

## DAY 3 - WEDNESDAY 30 JUNE 2021

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

## DAY 4 - THURSDAY 01 JULY 2021

<b>SESSION 7: 09:00 AM - 10:35 AM</b>		<b>Enzymes and 'omics</b> Chair: Angela Sherry, Northumbria University Co-chair: Bing Guo, University of Surrey	
09:00 AM	09:15 AM	Prasenjit Ghosh National Institute of Technology Goa	<a href="#">Bacterial degradaton of carbazole, degradation pathway and elucidation of uptake mechanism</a>
09:15 AM	09:30 AM	Alice Banks Imperial College London	<a href="#">Polyethylene terephthalate (PET) monomer metabolism and adaptation in environmentally isolated bacteria</a>
09:30 AM	09:45 AM	Valentine Okonkwo Glasgow University	<a href="#">Suitability of the intl1 gene as proxy for inferring antimicrobial-risistance pollution: optimal intl1 primer selection</a>
09:45 AM	10:00 AM	John Allan Northumbria University	<a href="#">New microbial chasses and new enzymatic technologies for MSW valorisation</a>
10:00 AM	10:05 AM	<b>Comfort break, followed by Posters (click poster title for preview, click name for live session recording):</b>	
10:05 AM	10:15 AM	<a href="#">Umar Abdulmutalib</a> <a href="#">University of Surrey</a>	<a href="#">Enzymatic degradation of polyethylene terephthalate (PET) plastic: a greener approach to plastic recycling</a>
10:15 AM	10:25 AM	<a href="#">Josephine Giard</a> <a href="#">Heriot-Watt University</a>	<a href="#">Diversity analysis and genome mining of microbial DNA data for the discovery of novel antibiotics</a>
10:25 AM	10:35 AM	<a href="#">Fatima Ceballos Rodriguez-Conde</a> <a href="#">University College London</a>	<a href="#">Construction of a plastic-degrading synthetic microbial community</a>
10:35 AM	10:40 AM	<b>CLOSE</b>	

### Networking videos - please visit our researcher videos

[All of our researcher videos can be found at https://ebnet.ac.uk/ecr2021-links/](https://ebnet.ac.uk/ecr2021-links/) and below (alphabetical order):

Roman Bielski Loughborough University	<a href="#">Metabolic engineering of Anammox bacteria for mitigating nitrogen pollution and balancing the nitrogen cycle</a>
Arinze Ezieke University of Queensland	<a href="#">Management and valorisation of waste from the berry sector via anaerobic digestion</a>
Sailesh Karanjit University of Southampton	<a href="#">Novel hybrid biofilm technology to remove nutrients from wastewater</a>
Jana Schniete Edgehill University	<a href="#">Back to soil: awakening the production of cryptic antibiotics in Streptomyces</a>
Georgia Waldram Heriot-Watt University	<a href="#">Marine Oil Snow (MOS): Understanding the formation mechanisms and role in the microbial biodegradation of crude oil</a>
Mohammad Zamzami University of Southampton	<a href="#">Upgrading sludge treatment plants (STPs) by dynamic membrane systems within Saudi Arabia</a>