




DRAFT TIMETABLE


Day 1, Tuesday 13th November


	BURY THEATRE	ROYAL ARMOURIES HALL A&B	WELLINGTON SUITE- 1 ST FLOOR
09.30 – 09.55	<p>PLENARY: Understanding and manipulating microbial communities in AD Chong, J., Royal Society Industry Fellow & Senior Lecturer in Microbiology, University of York, UK Chair: Martin Jolly, Aqua Enviro</p>		
	<p>ADVANCES IN ANAEROBIC DIGESTION Chair: Martin Jolly, Aqua Enviro Sponsored by</p>  	<p>CIRCULAR ECONOMY Chair: Fiona Nicholson, ADAS Sponsored by</p> 	<p>MODELLING & SOFTWARE DEVELOPMENTS Chair: Maryam Kabir, Aqua Enviro</p>
10.00 – 10.25	<p>SAS only thermal hydrolysis with series digestion – project results confirm lab predictions Shana, A.¹, Fountain, P.¹, Christie, I.¹, Panter, K.², ¹Thames Water, UK, ²Cambi, UK</p>	<p>Biosolids and biogenic fertilisers: converting wishful thinking to reality Whipps, A.¹ and Hammond, A.², ¹Pell Frischmann Ltd, UK, ²CCm Technologies Ltd, UK</p>	<p>Critical assessment and optimisation of sewage sludge mesophilic anaerobic digestion processes at operational wastewater treatment plant Liu, J. and Smith, S.R., Imperial College London, UK</p>
10.25 – 10.50	<p>Biodegradability of filtrate from thermally hydrolysed waste activated sludge Toutian, V.^{1,2*}, Barjenbruch, M.¹, Unger, T.¹, Loderer, C.², Remy, C.², ¹Technical University of Berlin, Germany, ²Berlin Centre of Competence for Water, Germany</p>	<p>EuPhoRe® – An advanced process for the disposal of sewage sludge with co-current recovery of phosphates Hazard, B.¹, Zepke, F.², Jabornig, S.³, Wutscher, K.³, ¹Trant Engineering Ltd, UK, ²EuPhoRe GmbH, Germany, ³SFC Umwelttechnik GmbH, Austria</p>	<p>Aquasuite® MINE – the advanced and optimal control of sludge treatment Koornneef, E., van Eijden, R. and Visser, A., Royal HaskoningDHV, The Netherlands</p>
10.50 – 11.15	<p>FOG and food waste receiving and processing considerations before digestion Williams, T.O., Gabel, D., Robillard, D., Jacobs, USA</p>	<p>Beyond nutrient recovery – what else can we recover from biosolids? Georges, K., Antizar, B., Serra, E., Uku, B., Isle Utilities, UK</p>	<p>Hustle and Flow: An approach to advanced analytics and proper production planning in bioresources Oosthuizen, S.¹, Cotterill, M.², Riches, S.², ¹Business Modelling Associates UK, ²Anglian Water, UK</p>
11.15 – 11.45	<p>Morning coffee/ tea break</p>		
11.45 – 12.10	<p>HpH advanced anaerobic digestion – a review of five years operation and lessons learnt</p>	<p>Rashca™: A new robust process for the conversion of digested sewage sludge and sludge screenings to liquid biofuel</p>	<p>Full scale validation of a model to predict anaerobic digester performance</p>

	Riches, S. and Brookes, A., Anglian Water Services Ltd, UK	Sirovski, F. and Sharpe, D., Industrial Chemicals Ltd, UK	Oxtoby, S. ^{1,2} , Winter, P. ¹ , Smith, S.R. ² , ¹ Thames Water, UK, ² Imperial College London, UK
12.10 – 12.35	Comparing the performance of thermophilic and mesophilic anaerobic digestion of pasteurised sewage sludge Hill, S., Shana, A., Perez, E.R., Fountain, P., Thames Water, UK	Catalytic slow pyrolysis of biosolids in a bubbling fluidised bed reactor using lime, biochar and activated char Patel, S. ¹ , Kundu, S. ¹ , Halder, P. ¹ , Paz-Ferreiro, J. ¹ , Surapaneni, A. ² , Shah, K. ¹ , ¹ RMIT University, Australia, ² South East Water, Australia	BioWin modelling to develop strategies to maximise energy generation from seven of Anglian Water's sludge treatment centres Smyth, M. ¹ , Kabir, M. ¹ , Inman, D. ² , ¹ Aqua Enviro, UK, ² Anglian Water, UK
12.35 – 13.00	Advanced sludge digestion optimisation – introducing innovative Ephyra® technology Visser, A., Koornneef, E., Traksel, D., Royal HaskoningDHV, Netherlands	Enzyme recovery from waste activated sludge Smith, S.R. and Liu, Z., Imperial College London, UK	Optimising bioresources businesses through masterplanning Hughes, S., and Horne, P., United Utilities
13.00 – 14.00	Lunch break		
	ADVANCES IN ANAEROBIC DIGESTION cont. Chair: Angela Bywater, AD Network	CIRCULAR ECONOMY cont. Chair: Alan Whipps, Pell Frischmann	BIOGAS AND ENERGY MANAGEMENT Chair: Prof Stephen Smith, Imperial College London (14.25 start)
14.00 – 14.25	Methane producing bacteria in the Northern hemisphere Curtis, T., Newcastle University, UK	Enabling a circular economy by recovering commodity products from sludge Williams, T.O. and Jeyanayagam, S., Jacobs, USA	
14.25 – 14.50	New additive to aid digestion of recalcitrant crop fibres Gemmell, N.S., Clayton Hall Farm Biogas Products Ltd, UK	RE-DIRECT - Regional development and integration of unused biomass wastes as resources for circular products and economic transformation Wilcox Brooke, A., Severn Wye Energy Agency, UK	Demand-driven biogas production from anaerobic digestion of sewage sludge: preliminary experimental results Lafretta, M. ^{1,2} , Thorpe, R.B. ¹ , Ouki, S.K. ¹ , Lee, J. ¹ and Rus Perez, E. ² , ¹ University of Surrey, UK, ² Thames Water Utilities Ltd, UK
14.50 – 15.15	GHG impacts of food waste AD and sludge AD Harrison, D., and Theodoulou, M., Suez Water Technologies and Solutions	The importance of anaerobic digestion within the MSW based biorefinery – Fiberight Puri, D., Fiberight Ltd, UK	Flexibility potential of waste water treatment plants with anaerobic sludge stabilisation Hobus, I., Kolisch, G., Pyro, P., Wupperversandsgesellschaft für integrale Wasserwirtschaft mbH, Germany
15.15 – 15.45	Afternoon tea / coffee break		
15.45 – 16.10	PANEL DISCUSSION: How close are we to tailoring microbial communities in AD?	Economic optimization of integrated nutrient and energy recovery treatment trains using a new model library	Energy recovery from biogas Blanchard, R., Loughborough University, UK

	James Chong, York University Tom Curtis, Newcastle University Angela Bywater, BBSRC AD Network	Vaneckhaute, C. ¹ and Belia, E. ² , ¹ Bioengine, Université Laval, Canada, ² Primodal Inc., Canada	
16.10 – 16.35		Export of upgraded biosolids to emerging markets in Asia Ugland, T. ¹ and Nguyen, V. ² , ¹ HØST Valuable Waste AS, Norway, ² HØST Asia Ltd, Vietnam	The ATC Plant at Lower Brighthouse – A merchant plant model for life after Water 2020 Pitt, D., Enertecgreen Limited, UK
16.35 – 17.00			

Day 2, Wednesday 14th November

	BURY THEATRE	ROYAL ARMOURIES HALL A&B	WELLINGTON SUITE- 1 ST FLOOR
09.00 – 09.25	PLENARY: Come in, number two – your time is up. Are microplastics the beginning of the end for ‘sludge to land’? Tompkins, D. ¹ and Bungay, S. ² , ¹ Aqua Enviro, UK, ² Helix Environmental Consultancy Ltd, UK		
	PRE / POST-TREATMENT AND THICKENING / DEWATERING Chair: Paul Fountain, Thames Water Sponsored by: SEEPEX. ALL THINGS FLOW	LANDBANK SECURITY Chair: Steve Bungay, Helix Environmental Consultancy Ltd	MAKING THE BIOECONOMY WORK Chair: Lucy Hopwood, NNFC 
09.30 – 09.55	ANAMMOX for side-stream treatment of wastewater effluent Field, J. ¹ , Sierra, R. ¹ , Prevatt, J. ² , Foster, A. ³ , Ikner, L. ³ , Pepper, I. ³ , ¹ University of Arizona, Department of Chemical & Environmental Engineering, ² Pima County Regional Wastewater Reclamation Department, ³ University of Arizona, Water & Energy Sustainable Technology (WEST) Center, USA	A survey of UK sewage sludge quality: a contemporary and historical analysis Liu, S. ¹ , Liu, J. ¹ , Macedo, F. ² and Smith, S.R. ¹ , ¹ Imperial College London, UK, ² Thames Water Utilities Ltd, UK	Introduction to the Bioeconomy Montgomery, L., NNFC
09.55 – 10.20	Nitrogen Removal on anaerobic digestion rejects from a THP-AD pretreatment by deammonification. Experiences in Lagares WWTP Oller M., GS INIMA, Spain	Emerging contaminants: a perspective from outside Europe Ball, A., RMIT University, Australia	BioBase4SME project Montgomery, L., NNFC

10.20 – 10.45	How sludge characteristics and THP affect dewaterability Kjørlaug, O. ¹ , Rus, E. ² , Molokwu, O. ² , Nilsen, P.J. ¹ , ¹ Cambi Group AS, Norway, ² Thames Water Innovation, UK	Presence of emerging contaminants in treated sludges and their potential impact on the environment Healy, M., National University of Ireland, Galway, Ireland	The importance of AD in the Waste Bio-refinery Puri, D., Fiberight
10.45 – 11.15	Morning coffee / tea break		
11.15 – 11.40	Sludge Pre-Treatment with OREG SLG Benamor, H. and Whittle, I., Wessex Water, UK	Gaining efficiency & facilitating compliance in biosolids operations and reuse O’Riain, G., Compass Informatics, UK/Ireland	Bioplastics – a development and commercial journey Moeyersons, M., Biome Technologies
11.40 – 12.05	Energy and Process Efficiency - savings at Thames Water McGarian, P. ¹ and Fountain, P. ² , ¹ SEEPX UK Ltd, UK, ² Thames Water, UK	Biosolids Assurance Scheme – maintaining confidence in biosolids recycling to agricultural land in the UK Llewellyn, A., Director of Assured Biosolids Ltd	On-site AD and the Circular Economy Gueterbock, R., Clearfleau
12.05 – 12.30	Twelve months on – Flottweg’s Xelletor decanter centrifuge proves it’s worth Steiger, W., Flottweg SE, Germany	Potential transfers of organic contaminants to the human foodchain from agricultural use of biosolids and other waste materials Smith, S.R and Rigby, H., Imperial College Consultants Ltd, UK	Treating complex wastes Kerr, S., Advanced Microwave Technologies Ltd
12.35 – 12.40	Student & early career professionals’ poster award presentation – sponsored by: <div style="text-align: right;">  </div>		
12.40 – 13.30	Lunch break		
	PRE / POST-TREATMENT AND THICKENING / DEWATERING cont. Chair: Keith Panter, Cambi UK	LANDBANK SECURITY cont. Chair: David Tompkins, Aqua Enviro	MAKING THE BIOECONOMY WORK cont. Chair: Lucy Hopwood, NNFCC
13.30 – 13.55	Polymer split-dosing trial for optimising the dewatering of thermally hydrolysed digested sludge at Long Reach Sewage Treatment Works Tilahun, D., Rus, E., Fountain, P., Christie, I., Thames Water Utilities Limited, UK	A method for the characterization of microplastics in biosolids Campo, P., Holmes, A. and Coulon, F., Cranfield Water Science Institute, Cranfield University, UK	Business Models – Agrocycle Hopwood, L., NNFCC
13.55 – 14.20	Concerned about Biosolid cooling after THP? Not with Biosolid Flash Cooler Hilstrøm, T., Haarslev Industries A/S, Denmark	Land spreading options for non-source segregated organics – present landbank restrictions and future possibilities	Refining seafood mortalities with a thermophilic aerobic system Clark, P., PRM

		Ash, C. ¹ , Wheeler, R. ¹ , Whyatt, P. ¹ and Bullock, S. ² , ¹ 4R Group, UK ² Renewi plc, UK	
14.20 – 14.45	Reducing greenhouse gas emissions and improving sludge dewaterability with vacuum degassing of digested sludge Cadavid, G. ¹ , Dittmann, M. ¹ , O'Brien, L. ² , ¹ ELIQUO WATER GROUP GmbH, ² ELIQUO HYDROK LTD	Nanoparticles in biosolids and risks to landbank Hough, R., The James Hutton Institute, Scotland	Bio-Bean – novel multi-faceted business model Porter, J., bio-bean Ltd
14.45 – 15.15	Afternoon tea / coffee		
15.15 – 15.40	Bio-cage™: A Novel innovative low-cost solution for sludge thickening – results from 52 Southern Water Sites Veesam, M ¹ and Thomas, P. ² , ¹ Southern Water, UK, ² AFECO, UK	Community impacts of land application Duckett, D., The James Hutton Institute, Scotland	TBC
15.40 – 16.05	The significance of direct dewatering of thin sludge to cake by VOLUTE dewatering press Mannion, R., Evergreen Water Solutions, UK	PANEL DISCUSSION: How can we best ensure a sustainable land bank? Led by: David Tompkins, Aqua Enviro	Anaerobic Digestion – a new market for Abagri Lee, N., Amur Energy
16.05 – 16.30	DfMA sludge thickening solutions – S-DISC takes a spin on Nereda sludge Sims, J., Huber Technology, UK	<ul style="list-style-type: none"> • Stephen Smith, Imperial College London • Dominic Duckett, The James Hutton Institute • Steve Bungay, Helix Environmental Consultancy Ltd • Mark Healy, National University of Ireland 	New additive to aid digestion of recalcitrant crop fibres Gemmell, N., Clayton Hall Biogas Products Ltd
16.30 – 16.45	CONFERENCE CLOSE Steve Bungay, Helix Environmental Consultancy Ltd		
16.45 – 17.00	Site visits preparation talk Maryam Kabir, Aqua Enviro		

Supporting Organisations

