TUESDAY 24TH NOVEMBER

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10.00 – 10.05	**Conference Opening & Welcome** David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro	
	PLENARY KEYNOTE	
10.05 – 10.30	**Pandemic impacts on AMP delivery** Alison Fergusson, Principal Engineer, Ofwat	
	THP Chair – Paul Fountain, Senior Process Expert Biosolids, Thames Water	**AD LIQUORS / AMMONIA REMOVAL** Chair – Rowland Minall, General Manager, Aqua Enviro
10.40 – 11.45	**Doing more with less - SMALL scale thermal hydrolysis systems prove to be powerful and effective** Panter, K.[1] and Stockton, A.[2], [1]Cambi, [2]United Utilities	**ANAMMOX sidestream treatment of sludge dewatering reject liquors operational experience and lessons learned** Driessen, W.[1], Veldhoven, J.[2], Janssen, M.[2], Went, C.[3], Hobbs, E.[3], van Loosdrecht, M.[4], [1]Paques bv, [2]Waterschap De Dommel, The Netherlands, [3]Severn Trent Water, [4]Delft Technical University, The Netherlands
	Dynamic mixing of steam and sludge in Veolia THP installations – long term operational experience Eveillard, F., Skonieczny, T., Phélip, G., Veolia Water Technologies	**Deammonification of thermal hydrolysis dewatering liquors** Ochs, P.[1], Soares, A.[1], Martin, B.[2], Germain-Cripps, E.[2], van Loosdrecht, M.[3], Stephenson, T.[1], [1]Cranfield University, [2]Thames Water, Delft Technical University, The Netherlands
	State-of-the-art on Cambi Thermal Hydrolysis technology; case studies from recent THP Energy Efficiency and Capacity upgrade project Bakhtiary, H.[1], Malekizadeh, A.[2], Dadgar, F.[1], [1]Cambi Group AS, [2]Urban Utilities, Australia	**Sludge Liquor Nitritation using advanced Biocatalysts** Nair, A., Microvi Biotech, UK

11.45 – 12.30	**Round-table Discussions / Networking**	
12.30 – 13.15	**Break**	
	ADVANCES IN AD: PROCESS OPTIMISATION AND INTEGRATION Chair – David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro	**SLUDGE THICKENING AND DEWATERING** Chair – Tamsyn Kennedy, Environment Programme Manager, R&D, Scottish Water BUCHER unipektin (sponsored by)
13.15 – 14.20	**Ginestous Multi-Technology project with focus on digestion with high dryness thermal hydrolysis** Skonieczny, T., Eveillard, F., Kjær, R., Phélip, G., Veolia Water Technologies	**Jail-breaking water from AD sludge: an enzymatic attack on sludge water retention** Andersen, S., Liviano, I., Wawrzynczyk, J., Novozymes A/S
	Ephyra® - digesting thermal hydrolysed sludge Koornneef, E. and Visser, A., Royal Haskoning DHV	**Digital and analytic support tool: Your sludge dewatering assistant through remote optimization** Aubeuf-Prieur, P., Kemira
	Innovative and dynamic feeding strategies of anaerobic digestion of sewage sludge for on-demand electricity generation Lafratta, M.[1], Thorpe, R.B.[2]; Ouki, S.K.[2]; Shana, A.[1]; Germain-Cripps, E.[1]; Willcocks, M.[1], Lee, J.[2], [1]Thames Water Utilities, [2]University of Surrey	**Might Sars-Cov2 make an old fashioned biosolids conditioning trendy again? Mineral conditioning, a good way to fulfill at low cost biosolids hygienization and pandemic requirements?** Mischler, J-F., Bucher Unipektin AG
14.20 – 14.30	**Break**	
14.30 – 15.35	**Anaerobic digester online monitoring helps avoid process upsets and maximize biogas production** van der Knoop, S., Hach	**A case study about the operational experience and benefits of SEEPEX SAI pumping technology handling dewatered sludge in a VEOLIA advanced anaerobic digestion Thermal Hydrolysis Process at Osberstown STF** McGarian, P.[1], and Whitty, A.[2], [1]SEEPEX UK Ltd, [2]Veolia Water Ireland Ltd
	Increasing biogas generation and solid reduction with biocatalysts Fabiyi, M., Drylet, LLC	**Combining the Ofwat drivers with COVID-19 related requirements** Heneghan, A., Huber Technology
	High-rate micro-aeration digestion for advanced process stability and sulphide-free biogas Kraakman, B.[1] and Lee, P-H.[2], [1]Jacobs, [2]Imperial College London	
15.35 – 15.45	**Break**	

	PLENARY KEYNOTE Chair - David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro
15.45 – 16.10	**A review of options for further market participation in bioresources** Wright, J. and Brindle, R., United Utilities
16.10 – 17.00	**Round-table Discussions / Networking**

WEDNESDAY 25TH NOVEMBER

	PLENARY KEYNOTE Chair - David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro	
09.30 – 09.50	**How Thames Water has responded organisationally to COVID restrictions. What we are learning and what it might mean for the future?** Nigel Watts, Head of Wastewater Treatment, Thames Water	
	BIORESOURCE SUPPLY CHAIN AND VALUE OPTIMISATION Chair – Matt Smyth, Technical Director, Aqua Enviro	**PROCESS MODELLING, MONITORING AND SOFTWARE DEVELOPMENTS** Chair – Céline Vaneeckhaute, Assistant Professor, Laval University
10.00 – 11.05	**Our Journey: From data analysis to value delivery in the bioresource value chain** Oosthuizen, S.[1] and Riches, S.[2], [1]Business Modelling Associates, [2]Anglian Water	**Performance of a predictive model for conventional and THP treated sewage sludge anaerobic digestion** Oxtoby, S.[1,2], Winter, P.[1], Smith, S.R.[2], [1]Thames Water, [2]Imperial College London
	Biomethane generation and its place in the bioresources market Elson, O.[1] and Gee, M.[2], [1]Atkins, [2]Thames Water	**Turning operational data into value using Cambi PLUS** Dadgar, F.[1], Mukawa, J.[2], Bakhtiary, H.[1], Minasidis, V.[1], [1]Cambi Group AS, [2]Tarnow Waterworks Ltd./AGH University of Science and Technology, Poland
	Aquasuite MINE® - promising results at two full-scale WWTP's with the Transport and Dewatering control modules Van de Ven, M.[1], van de Grootevheen, F.[2], [1]Royal Haskoning DHV, [2]Waterboard Vallei & Veluwe, The Netherlands	**Application of MeMo Predictive Machine Learning Software to predict and optimise AD performance** Harrison, D., Nexus Bioresource
11.05 – 11.15	**Break**	

11.15 – 12.00	**System thinking and the wider context for bioresource management** Giacalone, S., Oosthuizen, S, Martin, R., Penny, M., Business Modelling Associates	**Carbon and chemical energy balance investigation on four wastewater treatment plants** Dai, Z., Aqua Enviro
	OSCAR technology addressing the Circular Economy Hermana, B.[1], Ruiz, C.[1], Ordóñez, A.[2], Gutiérrez, B.[2], Huertas, F.[2], [1]ECOLOTUM energía Recuperable S.L, [2]GS Inima Environment, Spain	**Simulation as a tool for assessing digestion and liquid stream interactions in the context of new regulations** Condi, D.[1], Dold, P.[1], Smith, S.[2], [1]EnviroSim Associates, [2]Wilfrid Laurier University, USA
12.00 – 12.45	**Round-table Discussions / Networking**	
12.45 – 13.30	**Break**	
	BIOSOLIDS TO LAND – BENEFITS AND ALTERNATIVES Chair – David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro	**PANEL DISCUSSION: COVID MONITORING IN SEWAGE SLUDGES** Chair – Rowland Minall, General Manager, Aqua Enviro
13.30 – 15.00	**The Biosolids Nutrient Management Matrix: Maximising the value and minimising the risks** Williams, J and Rollett, A., ADAS Gleadthorpe	A series of presentations followed by a panel discussion sharing global experiences of bioresource / sewage sludge processing during the COVID-19 pandemic: overcoming challenges and planning for future challenges. **Wastewater sample site selection to estimate geographically-resolved community prevalence of COVID-19: A research protocol** Dr Ted Smith, University of Louisville, USA **WBE used to avert a Covid 19 Outbreak at the University of Arizona** Dr Ian Pepper, Professor, Environmental Science, University of Arizona and Director, National Science Foundation Water Environmental Technology Centre, USA **Covid monitoring in WWTPs in Quebec** Céline Vaneeckhaute, Canada Research Chair in Resource Recovery and Bioproducts Engineering, Laval University, Canada
	Modification of biosolids storage environment for suppression of E. Coli Fernandez, Y., Cranfield University	
	Biosolids to land – circular benefits, challenges and a future? Lake, A. and McLeod, A., Jacobs	
	Decentralized sludge treatment with efficient energy management and elimination of micro pollutants in sewage sludge – experience and lessons learned from the wastewater treatment plant in Linz Unkel Germany Cadavid, G., Wigand, F., O´Brien, L., Knörle, U., Eliquo Water Group	
15.00 – 15.30	**Round-table Discussions / Networking**	
15.30 – 15.40	**Break**	

15.40 – 16.20	**PLENARY KEYNOTE, POSTER AWARD AND CONFERENCE CLOSE** Chair – Rowland Minall, General Manager, Aqua Enviro
	Policy, pledges and planning Richard Brindle, United Utilities

POSTERS

Microbial analysis of the MELiSSA waste degradation compartment C1 and isolation and identification of C1 dominant bacteria
Van Nguyen, T.[1], Ardevol, V.N.[1], Kyndt, R.[1], Luther, A.[2], Bernaerts, K.[3], Smets, I.[3], Faust, K.[4], Rabaey, K.[2], Poughon, L.[5], Dussap, C-G.[5], Springael, D.[1]
[1]Division of Soil and Water Management, KU Leuven, Leuven, Belgium, [2]Center for Microbial Ecology and Technology, Ghent University, Ghent, Belgium [3]Department of Chemical Engineering- (Bio)Chemical Reactor Engineering and Safety, KU Leuven, Leuven, Belgium, [4]Laboratory of Molecular Bacteriology, Rega Institute, KU Leuven, Leuven, Belgium, [5]Institut Pascal, University of Clermont Auvergne, Clermont-Ferrand, France.

Potential Volatile Fatty Acids production through controlled Anaerobic Digestion
Ceron, O.D.Y., Zuluaga, B.H.A., Rubio, O.A.R., National University of Columbia

Modelling the effect of iron on the heterotrophic growth of Chlorella sorokiniana. An alternative to the valorization of anaerobic residual sludge
Girón, E.C., Amazo, V., Rubiano, L., Eliana, H., Nelson. N., National University of Columbia

Advanced Microbial Methodologies for Biosolids Breakdown
Ireland, A., Kaw, E., Zamudio, T., Biocleaner Inc

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