

EUROPEAN BIOSOLIDS & BIORESOURCES VIRTUAL CONFERENCE & EXHIBITION

24-25th November 2020



TUESDAY 24TH NOVEMBER

Sponsored by



Conference Opening & Welcome

David Tompkins, Head of Knowledge Exchange and Innovation, Aqua Enviro

PLENARY KEYNOTE

Pandemic impacts on AMP delivery

Alison Fergusson, Principal Engineer, Ofwat

THP	AD LIQUORS / AMMONIA REMOVAL
<p>Doing more with less - SMALL scale thermal hydrolysis systems prove to be powerful and effective Panter, K.¹ and Stockton, A.², ¹Cambi, ²United Utilities</p>	<p>ANAMMOX sidestream treatment of sludge dewatering reject liquors operational experience and lessons learn Driessen, W.¹, Veldhoven, J.², Janssen, M.², Went, C.³, Hobbs, E.³, van Loosdrecht, M.⁴, ¹Paques bv, ²Waterschap De Dommel, The Netherlands, ³Severn Trent Water, ⁴Delft Technical University, The Netherlands</p>
<p>Dynamic mixing of steam and sludge in Veolia THP installations – long term operational experience Eveillard, F., Skonieczyn, T., Phélip, G., Veolia</p>	<p>Sludge Liquor Nitrification using advanced Biocatalysts Nair, A., Microvi, Biotech</p>
<p>State-of-the-art on Cambi Thermal Hydrolysis technology; case studies from recent THP Energy Efficiency and Capacity upgrade project Bakhtiary, H.¹, Malekizade, A.², Dadgar, F.¹, ¹Cambi Group AS, ²Urban Utilities, Australia</p>	<p>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, ¹Cranfield University, ²Thames Water, ³Delft Technical University, The Netherlands</p>

Round-table Discussions, Networking, Posters, Exhibition

Dedicated time for you to explore the sponsor and exhibitor area, take a look at the posters, join group discussions and network with other attendees

Comfort break

ADVANCES IN AD: PROCESS OPTIMISATION AND INTEGRATION	SLUDGE THICKENING AND DEWATERING (sponsored by) BUCHER unipektin
Ephyra® - digesting thermal hydrolysed sludge Koornneef, E. and Visser, A., Royal Haskoning DHV	Combining the Ofwat drivers with COVID-19 related requirements Morris, S., Huber Technology
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	Effects of ultrasound disintegration on dewaterability of municipal waste activated sludge Talkenberger, J. and Grams, A., Weber Entec GmbH & Co
Ginestous Multi-Technology project with focus on digestion with high dryness thermal hydrolysis Skonieczyn, T., Eveillard, F., Kjær, R., Phélip, G., Veolia	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
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	Digital and analytic support tool: Your sludge dewatering assistant through remote optimization Aubeuf-Prieur, P., Kemira
Increasing biogas generation and solid reduction with biocatalysts Fabiyi, M., Drylet, LLC	Pumping dewatered sludge using an energy efficient conveying solution to reduce life-cycle-costs McGarian, P., Seepex
Anaerobic digester online monitoring helps avoid process upsets and maximize biogas production van der Knoop, S. and Thornton, A., Hach	

Round-table Discussions, Networking, Posters, Exhibition**Comfort break**

PANEL DISCUSSION: HOW THE WATER INDUSTRY HAS ADAPTED TO REMOTE WORKING

A series of short presentations by industry leaders followed by a panel discussion/group Q&A about whether the recent changes are positive / negative, how long lasting they might be and potential signposts for future ways of working. Further details to follow...

- Nigel Watts, Head of Wastewater Treatment, Thames Water

WEDNESDAY 25TH NOVEMBER

PLENARY KEYNOTE

Policy, pledges and planning

Richard Brindle, United Utilities

BIORESOURCE SUPPLY CHAIN AND VALUE OPTIMISATION

Our Journey: From data analysis to value delivery in the bioresource value chain

Oosthuizen, S.¹, Riches, S.², Penny, M.¹, ¹Business Modelling Associates, ²Anglian Water

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, ¹Royal Haskoning DHV, ²Waterboard Vallei & Veluwe, The Netherlands

System thinking and the wider context for bioresource management

Giacalone, S., Oosthuizen, S, Martin, R., Penny, M., Business Modelling Associates

Biomethane generation and its place in the bioresources market

Elson, O.¹, Gee, M.², ¹Atkins, ²Thames Water

PROCESS MODELLING, MONITORING AND SOFTWARE DEVELOPMENTS

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, ¹EnviroSim Associates, ²Wilfrid Laurier University

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, ¹Thames Water, ²Imperial College London

Turning operational data into value using Cambi PLUS

Dadgar, F.¹, Mukawa, J.², Bakhtiary, H.¹, Minasidis, V.¹, ¹Cambi Group AS, ²Tarnow Waterworks Ltd./AGH University of Science and Technology, Poland

OSCAR technology addressing the Circular Economy

Hermana, B.¹, Ruiz, C.¹, Ordóñez, A.², Gutiérrez, B.², Huertas, F.², ¹ECOLOTUM energía Recuperable S.L, ²GS Inima Environment, Spain

Application of MeMo Predictive Machine Learning Software to predict and optimise AD performance

Harrison, D., Nexus Bioresource

Comfort break

BIOSOLIDS TO LAND – BENEFITS AND ALTERNATIVES

Biosolids to land – circular benefits, challenges and a future?

Lake, A. and McLeod, A., Jacobs

The Biosolids Nutrient Management Matrix: Maximising the value and minimising the risks

Williams, J and Rollett, A., ADAS Gleadthorpe

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

Modification of biosolids storage environment for suppression of E. Coli

Fernandez, Y., Cranfield University

PANEL DISCUSSION: COVID MONITORING IN SEWAGE SLUDGES

A series of short 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-19 research in Scotland**
George Ponton, Head of Research and Innovation, Scottish Water
- **Covid monitoring in WWTPs in Quebec**
Céline Vaneekhaute, Associate Professor, Department of Chemical Engineering, Laval University, Canada

Further speakers to be announced soon...

Round-table Discussions, Networking, Posters, Exhibition

Poster Award and Conference Close

POSTERS

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, ¹Thames Water Utilities, ²University of Surrey

Study of the availability of nitrogen, carbon, and phosphorus in a blend of agro-industrial digestate and wood ash under different acidification conditions

Abelenda, A.M., Semple, K.T., Lag-Brotons, A.J., Herbert, B.M.J., Aggidis, G., Aiouache, F., Lancaster University

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

Ammonia Management – an overview

Ireland, A., Kaw, E., Zamudio, T., Biocleaner Inc

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