EUROPEAN BIOSOLIDS & ORGANIC RESOURCES CONFERENCE & EXHIBITION

19th – 20th November 2019
The Point at Emirates Old Trafford, Manchester

Invitation to Register

Tuesday 19th November
• Advances in Anaerobic Digestion
• Biogas Management
• Ammonia Management
• Pre-Treatment
• Landbank Security
• Making Biogas Pay (More) – Markets for Biomethane and CO₂

Wednesday 20th November
• Process Modelling and Control
• Thickenning and Dewatering
• 2020 and Beyond
• Resource Recovery and New Product Development
• Converting Genetic Information Into Action – Progress and Problems

Thursday 21st November Site visit to Leigh Wastewater Treatment Works

Media Partners:

Supporting Organisations:

www.european-biosolids.com  #BiosolidsConference
EUROPE’S LEADING CONFERENCE FOR THE BIOSOLIDS AND ORGANIC RESOURCES INDUSTRIES

WHY ATTEND?
• 100% of last year’s attendees who responded to the feedback survey rated the event good to excellent
• Gain insights from industry experts with 50+ technical presentations delivered over 2 days
• Network with 250-300 professionals from around the world
• Discuss and debate the emerging challenges facing your industry
• Access the exhibition of 30 companies showcasing their key products and services
• Socialise and network with fellow delegates and colleagues at the conference dinner

EXHIBITION
Stand spaces are 3m by 2m and cost £995 (+VAT) for two days, including one person to man the stand. Exhibitors receive a 20% reduction for any delegates wishing to attend the conference.
• 250-300 delegates attending over 2 days
• Meet representatives from the UK water companies, consultancies, technical associations, universities, research establishments, process suppliers, Government departments and agencies
• All delegate refreshments served in the exhibition area allowing plenty of time to network informally

The exhibition has sold out the last two years so please book early to avoid disappointment. Download the booking form at www.european-biosolids.com

SPONSORSHIP
A wide-range of cost-effective sponsorship packages have been developed to help organisations raise their profile across several industry sectors.

Our sponsors feature prominently before, during and after the conference on all conference material, websites, emails, adverts, social media and the event app – wherever and whenever we can make this happen!

Packages start from just £1,250… visit www.european-biosolids.com to find out more or get in touch with Frances to discuss your requirements: e.frances.woodhead@aquaviri.co.uk t.+44 (0)1924 257891.

TESTIMONIALS
“Overall, very enjoyable as always and absolutely the premier biosolids event in Europe.”

“One of the best conferences I have attended, very inspiring and well balanced.”

“Having been in this industry for over 30 years and attended many global events, the Aqua Enviro Biosolids conference remains the most relevant in its field. Using this platform to validate our technology enabled a step change in our business.”

“Excellent job all round from you guys, Very informative and enjoyable 2 days.”

“Great opportunity to network with other people within the industry.”
ADVANCES IN ANAEROBIC DIGESTION

Full scale validation of a model to predict anaerobic digester performance
Oxtoby, S.1,2, Winter, P., Smith, S.R.1, Thames Water, UK, 1Imperial College London, UK

Genomics orchestration surpasses biochemical limitations for a new renaissance in anaerobic digestion
Lee, P-H., Imperial College London, UK

How to Transition from conventional MAD to THP digestion; experiences from Basingstoke
Merry, J.1 and Fountain, P.2, Stantec, UK, Thames Water, UK

The effects of thermal hydrolysis and ammonia concentration on digestion rates at Basingstoke STW. Searching for the sweet spot
Parker, K.1, Fountain, P.2, Shana, A.3, Cambi, UK, Thames Water, UK

Operating a three-staged thermophilic anaerobic digestion facility
Parry, D.1, Selia, Y.2, Robinowitz, B., Clark, C.1, Jacobs, USA, Mey Ezar Dan, Israel

Unravelling the Ephyra sludge digestion technology
Koomneet, E., Vissers, A., Hendriks, A., Royal HaskoningDHV, The Netherlands

BIOGAS MANAGEMENT

Gastop, optimization of the design of anaerobic digestion with reduced safety area and quality of the biogas produced
Simonsen, N.1, Bigot, B.2, Kjaer, R.1, Krüger A/S, Denmark, Veolia Water Solutions & Technologies, UK

Full-scale digester micro-aeration studies to improve biogas quality
Kraakman, B.1,2, Diaz, I.2, Muñoz, R.2, Jacobs, UK, Institute of Sustainable Processes, University of Valladolid, Spain

Energy production from biogas: responding to current and future opportunities
Horne, P., Richards, S., Pogson, J., Pennick, A., United Utilities, UK

AMMONIA MANAGEMENT

The role of ammonia stripping in the enhancement of anaerobic digestion
Eden, R.1, Moulden, M.1, Richardson, K.1, Thomas, T.1, Organics Ltd, UK, University of Warwick, UK

Operational experience with treatment of THP-MAD sidestream liquors with the ANAMMOX® process
Kraakman, B.1,2, Diaz, I.2, Muñoz, R.2,1, Jacobs, UK, Institute of Sustainable Processes, University of Valladolid, Spain

Successful commissioning of Basingstoke STW DEMON® liquor treatment plant
Inkipin, L., Madden, G., Merry, J., Fountain, P., Thames Water, UK

Ammonia removal with different deammonification technologies from thermal hydrolysis anaerobic digestion dewatering liquors
Ochs, P.1,2, Martin, B., Germain-Cripps, E.2, van Loosdrecht, M.3, Stephenson, T.1, Soares, A.1, Cranfield University, UK, Thames Water, UK, Delft University of Technology, The Netherlands

LANDBANK SECURITY

Landbank security issues in the United States
Pepper, I., Water & Energy Sustainable Technology (WEST) Center, The University of Arizona, USA

Overview of biosolids legislation, production and management in developed and developing countries worldwide
Salazar-Espitia, J.D.1, Gonzalez, A.F.R.1, Vasco, J.M.N.2, National University of Colombia, Catholic University of Manizales, Columbia

Recontamination of dewatered biosolids by E. coli

The Biosolids Assurance Scheme: new clothes for the Emperor?
Tompkins, D., Aqua Enviro, UK

Phosphate Acceptance Map: A new research tool for determining land suitability for application of biosolids
Wadsworth, R., Hallett, S., Sakrabani, R., Cranfield University, UK

Environment Agency Sludge Strategy – looking to the future
Foster, S. and Davis, M., Environment Agency, UK

PRE-TREATMENT

Techno-economic analysis of anaerobic digestion pre-treatment technologies for a UK site
Smith, R.W., and Rus, E., Jacobs, UK

Exelys, a simple & continuous TH technology, initial feedbacks from two installations start-up
Bigot, B.1, MacBeath, S.1, Nielsen, E.2, Veolia Water & Technologies UK, Veolia Water & Technologies, Biosolids Techno BU, Denmark

Prediction of viscosity based on sludge type and characteristics and its significance for thermal hydrolysis economy
Svensson, K. and Dadgar, F., Cambi Group AS, Norway

Process intensifying the circular biosolids economy via hydrodynamic cavitation. Increasing biomethane yields of secondary sewage sludge AD plants
Greenwood, E., CaviMax Ltd, UK

MAKING BIOGAS PAY (MORE) – MARKETS FOR BIOMETHANE AND CO₂

Under development – visit european-biosolids.com for updates.
PROCESS MODELLING AND CONTROL

Simulation as a tool for assessing digestion and liquid stream interactions in the context of new regulations
Brian, K., Conidi, D., Dold, P., Envirosim Associates Ltd, USA

Automation, control and optimisation of the sludge line at WwTP Utrecht with Aquasuite Mine
Heijkoop, D., Post, B., Koomoef, E., Royal HaskoningDHV, The Netherlands

Utilizing integrated software, proven algorithms and decades of chemical applications experience to continuously automate and optimize an already advanced municipal dewatering operation in Denmark
Abinet, R., Kemira Chemicals Germany GmbH

THICKENING AND DEWATERING

Why dewaterabilty of sewage sludge occurs upstream- a model to quantify the effects
Kopp, J., Kläranlagen Beratung Kopp, Germany

Techno-economic analysis of post THP+AD dewatering options for a UK site
Rus, E., Jacobs, UK

Predicting dewatered cake solids after conventional AD, Pre-AD THP and Post-AD THP
Svennevik, O.K., 1,2, Beck, G.1, 1, Rus E.1, Westereng, B.1, Higgins, M.1, Solheim, O.E.1, Nilsen, P.J.1, Horn, S.J.1, Svensson, K.1, Dadgar, F.1, 1Norwegian University of Life Sciences, Norway, 2Cambi Group AS, Norway

The practical implementation of reducing sludge dewatering whole life costs
Sims, J.1 and Parker, D.2, 1Huber Technology, UK, 2Kier Services, UK

BiocageTM sludge thickening - operational experience from two water companies
Thomas, F., Crouch, J., Field, A., Afeco, UK

Demonstration of a continuous TORWASH® pilot plant for dewatering of sewage sludge
Nanou, P., Pels, J.R., Sebastiani, F., van der Meijden, C.M., Kuipers, H., Driessen, W., Vogelaar, J., TNO, The Netherlands

A look in the rear-view mirror after more than 10 years of Bucher presses operation on biosolids dewatering
Mischler, J.F., Bucher Unipetkin, Switzerland

Vivianite & Struvite: Growing challenges for Bioresources & Wastewater Operations
Smyth, M., Aqua Enviro, UK

2020 AND BEYOND

UK AD through the crystal ball. AD and the Climate Action Imperative
Minter, T., Malaby Biogas, UK

Maximising efficiency when you are not starting from scratch...
Cherry, L., Severn Trent Water, UK

Lithium tracer testing across 12 sludge treatment centres to inform United Utilities’ resilience strategy for AMP7
Herron, D.1 and Croft, J.2, 1Aqua Enviro, UK, 2United Utilities, UK

Preparing for the future – NI Water’s sludge strategy
Audy, D.1 and McArthur, J.2, 1PROjEN Ltd, UK, 2Northern Ireland Water

RESOURCE RECOVERY / NEW PRODUCT DEVELOPMENT

Design of fired-clay brick prototype from biosolids generated in an Andean municipal WWTP in Colombia
Salazar-Espitia, J.D.1, Ossa-Galvis, G.A.1, González, F.A.C.1, Orjuela, A.M.Z.1, Rios, A.N.1, Benites, D.G.1, Vasco, J.M.M.1, Yepez, O.D.C.1, Rubio, O.A.P.1, Salazar, M.T.U.1, Cardona, J.A.1, Baena, J.E.1, Arango, L.A.1, Buitrago, M.1, Montoya, A.L.1, Izaza, I.C.C.1, 1National Learning Service of Colombia, 2Catholic University of Manizales, Colombia, 3Caldas University, 4Tejares Terracotta de Colombia S.A., 5Agua de Manizales S.A., E.S.P.

ABC economy – a three phase approach to valourising food production waste
Kleemann, R. and Murphy, F., University College Dublin, Ireland

Towards a quality-by-design approach to produce PAT-based bio-products through nutrient recovery from (digested) wastes
Vaneeckhaute, C., Université Laval, Canada

Biosolids and biogenic fertilisers: developing a circular economy
Whipp, A.1 and Hammond, A.2, 1Pell Frischmann, UK, 2CCm Technologies Ltd, UK

Futurethinking the sludge value chain
Lake, A., Iwaki, M., Hughes, S., Jacobs, UK

Rigenera sewage sludge innovative treatment for the production of organic biosolids
Cavallino, R.M. and Campi, F., Rigenera S.r.l., Italy

CONVERTING GENETIC INFORMATION INTO ACTION – PROGRESS AND PROBLEMS

Under development – visit european-biosolids.com for updates.
LOCATION & VENUE

Emirates Old Trafford is ideally located, just 3 miles outside Manchester City centre and is recognised as one of the UK’s most prestigious venues for conferences, exhibitions and meetings. The Point is an award-winning sustainable building, featuring an elevated glass-fronted suite with a balcony overlooking the famous Lancashire Cricket pitch. The venue also boasts an on-site, four-star, Hilton Garden Inn hotel. With 150 bedrooms, 85 of which overlook the pitch, free parking and great transport links.

Full travel and accommodation details will be sent when you register. Visit www.european-biosolids.com

POSTERS

Microplastics from waste water treatment sludge in soil – What’s the story?
Lam, M., Ricardo Energy and Environment, UK

Phosphorus in agricultural soils: the role of biofertilisers and their derivatives
Tompkins, D., Aqua Enviro, UK

Disrupting dewatering… dredging and subsequent microplastic removal
Pring, W., KCP Ltd, UK

Anaerobic digestion of solid residue from lignocellulose catalysis
Hurst, G., Peeters, M., Tedesco, S., Manchester Metropolitan University, UK

Microplastics on land: is sewage sludge the problem?
Radford, F., University of Southampton

SITE VISIT Thursday 21st November

This year, delegates have the opportunity to join a site visit to Leigh Wastewater Treatment Works on Thursday 21st November to see their THP and liquor treatment operations. The coach will depart the conference venue at approx. 9am and will return early afternoon. Lunch will be provided. The visit is currently under development so please keep a check of the website www.european-biosolids for updates.

The cost is £100 +VAT per person. Please note places are limited so please book early to avoid disappointment.

CONFERENCE DINNER

Tuesday 19th November

This year, we will be taking over The Bays at Victoria Warehouse; a spectacular venue that oozes character, located just a few minutes’ drive from the conference venue. Built in 1932 for cotton stock, and later storage for Kellogg’s, McVitie’s and Cadburys, The Bays’ rich history and interesting architecture make it a perfect venue for our dinner.

Dinner tickets are £60 (+VAT) and include drinks on arrival, a 3-course meal and half a bottle of wine.

Contact frances.woodhead@aquaenviro.co.uk for further details or books via the Aqua Enviro website www.aquaenviro.co.uk

The event is always a sell out, so we encourage you to book early.

BOOKING

You can register online or download a printable booking form at www.aquaenviro.co.uk

Note that we offer REDUCED prices for water company staff, academics, early career professionals and students

Please direct any registration queries to Clare Hunter: clare.hunter@aquaenviro.co.uk | +44 (0)1924 257891

| BOTH DAYS + VAT |
|-----------------|----------------|
| Standard Delegate | £595 |
| Standard Speaker | £495 |
| Water Company / Early Career Professional | £495 |
| Students, Academics & Charities | £240 |
| Site Visit | £100 |
| Conference Dinner | £60 |
Training Courses

We deliver Anaerobic Digestion training to Bioresources teams on your sites.

Get in touch with Matt Smyth to find our more:

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t. +44 (0)1924 242255

Practical Experiences of Odour Management

25th Sept. 2019, Cloth Hall Court, Leeds

The conference will explore the latest technologies and techniques that are available to measure, monitor and evaluate the impact of odours and assist with compliance.

With expertise from the waste water, industrial and commercial waste management sectors, the conference will appeal to odour professionals, regulators, innovators, site and compliance managers.

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“You delivered an excellent training session. I was impressed not only by your subject knowledge but also with your skill in delivery.”

Manager, GENeco