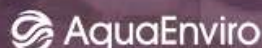


EUROPEAN **WASTE WATER MANAGEMENT** CONFERENCE
17-18 JULY 2018, MANCHESTER UNITED FOOTBALL STADIUM



Draft Programme

Day 1 - Tuesday 17th July

PHOSPHORUS

What to do with the phosphorus - a European perspective

Thornton, C., European Sustainable Phosphorus Platform

Alternative configurations for biological phosphorous removal – experience from the United States

Koodie, T.¹, Shaw, A.¹, Chan, T.² and Steichen, M.², ¹Black & Veatch, UK, ²Black & Veatch, US

Ferric direct from steel – a game-changing solution for P removal with Soneco®

Stanford, C.¹, Yang, G.¹ and Morgan, G.², ¹Southern Water, ²Power and Water (KP2M Ltd), UK

Initial commissioning and operating experiences of low phosphorus limits of 0.5mg/l P

Sunner, N.¹ and Mansuclal, A.², ¹Stantec UK Ltd, ²Stantec Treatment Ltd, UK

From Bowerhill to Rugby – The implementation of the BioMag process in Severn Trent Water waste water treatment works at Rugby

Radford, S.¹, Ruswa, E.² and Goodwin, J.¹, ¹Evoqua, ²Severn Trent Water, UK

Meeting low phosphorous consents and other targets in a single stage using continuous filtration

Barter, P. and Jarman, D., Hydro International, UK

The impact of entrapment of algae on simultaneous nutrient removal

Kube, M.¹, Spedding, B.², Fan, L.¹ and Roddick, F.¹, ¹RMIT University, Australia, ²South East Water Corporation, Australia

FilterClear – an ideal solution to achieve stringent total phosphorus standards

Huo, C., Harnett, R. and Biddle, J., Bluewater Bio, UK

1-STEP® filter: the Magic Bullet for phosphorus and nutrient removal

Merks, C.¹, Menkveld, W.², Gray, J.³ and Bechger, M.⁴, ¹Witteveen+Bos Consulting Engineers, the Netherlands, ²Nijhuis Water Technology, the Netherlands, ³Nijhuis Industries UK & Ireland, ⁴Waternet, The Netherlands

Monitoring the biological phosphate removal using an online respirometer

Li, X., Gomez, J., Taylor, R., Price, D., Rickett, T., Kruger, R., Bactest, UK

Leading the way with Mecana for low effluent P concentrations

O'Brien, L. and Cooper-Smith, G., Eliquo Hydrok, UK

Does ferric dosing for phosphorus removal upset the nutrient balance for biological sewage treatment processes?

Youdan, J., Healey, S., Walker, H. and Whittle, I., Wessex Water, UK

Risk managed portfolio approach to delivering phosphorus removal schemes

Curtis, P., and Williams, S., @one Alliance, UK

CATCHMENTS & NETWORKS

Peak flow equivalent treatment, trial testing of innovative technologies to Dŵr Cymru Welsh Water and the UK

Wilson, V.¹ and Campbell, N.², ¹Dwr Cymru Welsh Water, UK ²Morgan Sindall, UK

Sewer Model Calibration: the prerequisite for workable CSOs, Flood and real time control: a perspective based on the Danish water sector

Salau, N., Denmark

Engineering a solution to a large wastewater catchment scheme

Ridley, B., United Utilities, UK

Delivering holistic solutions and flexible permitting to improve river quality

Bowman, B., Harris, T., Aboobakar, A. and Gowdy, R., United Utilities, UK

Infiltration detection – needs a bright spark

Henley, P., WRc, UK

Utilisation of waste water treatment Fats and Oils for biodiesel manufacture – challenges and potential innovation

Kingsley, M. and Hogg, M., Argent Energy, UK

Reducing the costs of pumping waste water using power logging and real-time efficiency displays

Snoxell, J., Southern Water, UK

FLUSH AND FORGET – WHOSE PROBLEM IS IT ANYWAY?

Consumer information is key to prevent wipe blockages

Lagemaat, M., EDANA, Belgium

Fat, Oil, Greases (FOG) and Unflushables Project (Southern Water)

Gabos, E., Southern Water, UK

Dealing with unflushables in the sewers

Drinkwater, A. and Dolata, M., WRc, UK

PANEL DISCUSSION ON FLUSHABLES

Marines Lagemaat, Scientific and Technical Affairs Director, EDANA

Andy Drinkwater, Principal Engineer, WRc

Elvira Gabos, FOG and Unflushables Manager, Southern Water

NOVEL AND EMERGING PROCESSES

Trends in advanced wastewater treatment: Implementing anaerobic secondary processes in the UK
Soares, A., Cranfield University

Can EBPR plants perform better?
Dold, P. and Conidi, D., EnviroSim Associates Ltd, Canada

Fully-commercialised, fully-anaerobic wastewater treatment technology
Keenan, M., EKO GEO, Slovenia

C-TECH – A reduced footprint advanced cyclic activated sludge technology with simultaneous nitrification and denitrification, and biological phosphorous (bio-P) removal in a single treatment step
Hazard, B.¹, Bullen, T.¹, Jabornig, S.² and Wurscher, K.², ¹Trant Engineering, UK ²SFC Umwelttechnik, Austria

Performance improvement of wastewater transport systems and treatment processes by advanced monitoring and predictive control
Icke, O.¹, Lubbers, C.¹, van Eijden, R.¹, de Koning, M.¹, Huising, C.² and de Wit, R.³, ¹Royal HaskoningDHV, ²Water authority Vallei en Veluwe, The Netherlands, ³Water board Limburg, The Netherlands

MAUI: a new system for monitoring of possible harmful compounds input for wastewater treatment systems
Calabrese, A.¹, Blonda, M.¹, Casale, A.², Casale, B.¹, Mauro, R.¹, Dimucci, A.², Matrino, D.³, Sarcina, V.², Uricchio, V.F.¹, ¹CNR-IRSA, ²Omnitech Srl, ³Secure to Future Srl, Italy

Nereda®: The future in sustainable wastewater treatment
Thompson, A. and Oliver, B., Royal HaskoningDHV, UK

SUSTAINABLE SOLUTIONS

Severn Trent Water's Rural Strategy: Two stage vertical flow reed beds (VFRB) for landscape integration and lower OPEX costs – lessons learnt from first UK plant
Blanco, I., Bajón Fernández, Y., Ruswa, E., Cunliffe, D., Pereira, L. and Richards, A., Severn Trent Water, UK

Considerations in developing a biologically-based decentralised water treatment solution for the global market
Hannon, L.¹, Herron, D.², Perfido, D.², Dussaussois, J.⁴, Salvado, V.⁵ and Clifford, E.¹, ¹College of Engineering and Informatics, NUI Galway, Ireland, ²Aqua Enviro, UK, ³R2M Solution s.r.l., Italy, ³Nobatek, France, ⁵University of Girona, Spain

Struvia - a cost effective technology for phosphorus recovery
Bigot, B.¹, Bundgaard, E.² and Paillard, H.³, ¹Veolia Water Technologies, UK, ²KRÜGER A/S, ³Veolia

Energetic flexibility on wastewater treatment plants – concepts, simulation and practical tests
Hobus, I.¹, Kolisch, G.¹, Pyro, P.¹ and Schäfer, M.², ¹Wuppertalgesellschaft für integrale Wasserwirtschaft mbH, Germany, ²Institute of Urban Water Management, University of Kaiserslautern, Germany

Integrating sustainability indicators in the monitoring and control strategy of WWTPs - Moving towards a smart digital water society

Vasilaki V.¹ Volcke, E.I.P.², van Loosdrecht³, M.C.M., Katsou E.¹, ¹Brunel University London, UK, ²Ghent University, Belgium, ³Delft University of Technology, The Netherlands

Day 2 – Wednesday 18th July

PLENARY

Why Venture Capital has spectacularly failed in the water sector ... and how it is about to change

Dr Piers Clark, Founder and Chairman, Isle Utilities

PRIORITY SUBSTANCES & EMERGING CONTAMINANTS

UKWIR Chemical Investigation Programme – Developments, outputs and investment

Jenner, S.¹ and Hughes, J.², ¹United Utilities, UK, ²Thames Water, UK

C-ION – An innovative advanced oxidation process based on the injection of non-thermal plasma for the removal of trace substances from drinking and waste water

Hazard, B.¹, Bullen, T.¹, Jabornig, S.², Wutscher, K.², Rupprich, M.³ and Obholzer, T.³, ¹Trant Engineering, UK, ²SFC Umwelttechnik, ³Management Centre Innsbruck, Austria

PR19 Solutions for removal of priority substances

How, D.¹, Piano, E.¹, Glancy, V.¹, Bahloul, M.¹ and Hill, M.², ¹Arup, UK, ²Yorkshire Water, UK

Effective removal of priority substances using the Nyex™ treatment process

Brown, N., Carson, E. and Campen, A.K., Arvia, UK

Elimination of micro pollutants by powder and granular activated carbon in final filtration units at municipal WWTPs

Kolisch, G.¹, Taudien, Y.¹, Bornemann, C.², ¹Wupperverbandsgesellschaft für integrale Wasserwirtschaft mbH, Germany, ²Wupperverband, Germany

Removal of emerging contaminants and pathogens on an innovative hybrid PAC/membrane process

Sauvignet, P.¹, Gaid, K.¹, Daines, C.², Leparç, J.², ¹Veolia, Technical and Performance Department, France, ²Veolia Environnement Research & Innovation, France

PANEL DISCUSSION ON PRIORITY SUBSTANCES AND EMERGING CONTAMINANTS

Dr. Rachel Gomes, Associate Professor Chemical and Environmental Engineering, Nottingham University

Jason Snape, Senior Principal Environmental Scientist/ SHE Research and Foresight Director at AstraZeneca

Alice Horton, Ecotoxicologist and NERC Knowledge Exchange Fellow, Centre for Ecology & Hydrology

ENGINEERING AND PROCESS OPTIMISATION

Hydraulic design and its impact on the performance of the wastewater treatment works

Sherwood, J., United Utilities, UK

Optimisation of plastic media percolating filters performance through improved recirculation

Nikolova-Kuscu, R., Jarvis, S. and Brown, P., Thames Water Utilities, UK

Upgrading existing assets to improve operational performance - A complex problem with a simple solution: MBBR & IFAS

De Jean, E.¹ and Jean, W.², ¹Veolia AnoxKaldnes, ²Veolia Water Technologies, UK

Optimisation of existing assets using intelligent dissolved air flotation

Gray, J.¹ and Menkveld, W.², ¹Nijhuis UK and Ireland, ²Nijhuis Water Technologies, the Netherlands

Hybrid Activated Sludge: exploiting biochemistry to double capacity

Biddle, J., Bluewater Bio, UK

IFAS for highly cost-efficient performance upgrading

O'Brien, L. and Cooper-Smith, G., Eliquo Hydrok, UK

Real Time Control (RTC): a step towards the digitalisation of our sewage treatment works

Bobbio, J. and Germain-Cripps, E., Thames Water Utilities, UK

Energy data management principles for water utilities

Gunaratnam, M.¹, Cherchi, C.², Badruzzaman, M.², Grenfell, R.¹ and Jacangelo, J.², ¹Stantec, UK, ²Stantec, USA

Optimisation of wastewater treatment using remote monitoring and enhanced analytics

Reeves, R., Southern Water, UK

POSTERS

Sewer Model Calibration: the prerequisite for workable CSOs, Flood and real time control: a perspective based on the Danish water sector

Salau, N., Denmark

The *in-situ* treatment of landfill leachate, using the natural process of bioremediation and chemical adsorption into a fixed bed column

Morris, S.¹, Garcia-Cabellos, G.¹, Enright, D.², Ryan, D.¹ and Enright, A-M.¹, ¹EnviroCore, Institute of Technology Carlow, Ireland, ²Institute of Technology Tralee, Ireland

Real Time Control (RTC): a step towards the digitalisation of our sewage treatment works

Bobbio, J. and Germain-Cripps, E., Thames Water Utilities, UK

The impact of entrapment of algae on simultaneous nutrient removal

Kube, M.¹, Spedding, B.², Fan, L.¹ and Roddick, F.¹, ¹RMIT University, Australia, ²South East Water Corporation, Australia

Microplastics characterisation in a tertiary wastewater treatment plant in the UK

Blair, R.M.¹, Waldron, S.¹, Gauchotte-Lindsay, C.¹ and Phoenix, V.², ¹University of Glasgow, Glasgow, ²University of Strathclyde, Glasgow

The potential for managing landfill leachate by applying to SRC willow - Investigation into the efficacy of utilising the biomass energy crop for environmentally sustainable on-site leachate management and treatment while contributing to a biomass supply chain

Johnston, C. and Walsh, L., Agri-Food and Biosciences Institute (AFBI), UK

Applying a novel approach for monitoring microplastics in wastewater effluent

Horton, A.A., Jürgens, M.D., Lahive, E., Johnson, A.C., Spurgeon, D.J. and Svendsen, C.,
Centre for Ecology and Hydrology, UK

Initial studies on screening the effect of pharmaceutically contaminated wastewater on the anaerobic digestion process

Alenzi A., Hunter, C. and Pahl, O., School of Engineering & Built Environment, Glasgow Caledonian University, Scotland

Assessing the contribution of wastewater treatment to microplastic pollution

Stanton, T.¹, Johnson, M.¹, Nathanail, P.², Gomes, R.L.³, ¹School of Geography, University of Nottingham, ²Land Quality Management Ltd, University of Nottingham Innovation Park, ³Food, Water, Waste Research Group, Faculty of Engineering, University of Nottingham

Phosphorous recovery and the Phos4You project in Ireland

O'Dwyer, D., Harrington, J., O'Donnell, C., Power, N., Barnett, D., Fitzgibbon, K., Byrne, E.,
Cork Institute of Technology, Ireland

***Chlamydomonas acidophila* as an alternative for Phosphorous recovery from wastewater**

Reichert, L.-D., Escudero, A., Hunter, C., Pahl, O., Glasgow Caledonian University, UK