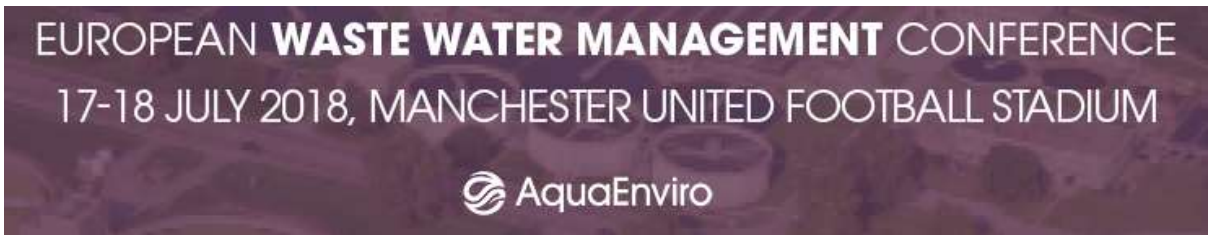

Draft Programme

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], [1]Black & Veatch, UK, [2]Black & 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], [1]Southern Water, [2]Power 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], [1]Stantec UK Ltd, [2]Stantec 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], [1]Evoqua, [2]Severn 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], [1]RMIT University, Australia, [2]South 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], [1]Witteveen+Bos Consulting Engineers, the Netherlands, [2]Nijhuis Water Technology, the Netherlands, [3]Nijhuis Industries UK & Ireland, [3]Waternet, 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], [1]Dwr Cymru Welsh Water, UK [2]Morgan 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

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

Consumer information is key to prevent wipe blockages
Lagemaat, M., EDANA, Belgium

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

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], [1]Trant Engineering, UK [2]SFC 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], [1]Royal HaskoningDHV, [2]Water authority Vallei en Veluwe, The Netherlands, [3]Water board Limburg, The Netherlands

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], [1]College of Engineering and Informatics, NUI Galway, Ireland, [2]Aqua Enviro, UK, [3]R2M Solution s.r.l., Italy, [3]Nobatek, France, [5]University of Girona, Spain

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

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

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

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], [1]United Utilities, UK, [2]Thames 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], [1]Trant Engineering, UK, [2]SFC Umwelttechnik, [3]Management 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], [1]Arup, UK, [2]Yorkshire 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], [1]Wupperverbandsgesellschaft für integrale Wasserwirtschaft mbH, Germany, [2]Wupperverband, Germany

Removal of emerging contaminants and pathogens on an innovative hybrid PAC/membrane process
Sauvignet, P.[1], Gaid, K.[1], Daines, C.[2], Leparc, J.[2], [1]Veolia, Technical and Performance Department, France, [2]Veolia Environnement Research & Innovation, France

PANEL DISCUSSION ON PRIORITY SUBSTANCES

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

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

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], [1]Veolia AnoxKaldnes, [2]Veolia Water Technologies, UK

Optimisation of existing assets using intelligent dissolved air flotation
Gray, J.[1] and Menkveld, W.[2], [1]Nijhuis UK and Ireland, [2]Nijhuis Water Technologies, the Netherlands

Hybrid Activated Sludge: exploiting biochemistry to double capacity
Biddle, J., Bluewater Bio, UK

IFAS for highly cost-efficient performance uprating
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], [1]Stantec, UK, [2]Stantec, 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]., [1]EnviroCore, Institute of Technology Carlow, Ireland, [2]Institute 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], [1]RMIT University, Australia, [2]South 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], [1]University of Glasgow, Glasgow, [2]University 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], [1]School of Geography, University of Nottingham, [2]Land Quality Management Ltd, University of Nottingham Innovation Park, [3]Food, Water, Waste Research Group, Faculty of Engineering, University of Nottingham