



9th European Waste Water Management Conference Programme

12-13th October 2015, Manchester Town Hall, UK

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Technical Sessions

Priority Chemicals
Phosphorus Removal
Data Collection and Plant Control
Odour Problems
Attached Growth Processes
Performance and Energy Efficiency
Solids Removal Systems
Inlet Works and Primary Treatment Options
Innovative Solutions

Panel Debate: What is the potential scope for real-time control in the UK water industry?

Monday 12th October	
Room 1 - Banqueting Room	
Phosphorus Removal Chair Jim Pickering, MD, Envitech	
9.30 – 10.00	National low P trials Jones, N., Dwr Cymru Welsh Water, UK
10.00 – 10.30	Advanced phosphorus removal: how low can we go? Healey, K., Veolia Water Technologies, UK
10.30 – 11.00	Initial design experiences of meeting low phosphorus standards Sunner, N. ¹ , Mills, N. ² , Germain-Cripps, E. ² , ¹ eight2o, ² Thames Water Utilities Ltd, UK
11.00 – 11.30	Coffee Break & Exhibition
11.30 – 12.00	Phosphate removal – a summary of the 5 years operation of the CoMag phosphate removal plant at Billerica, Massachusetts, USA Kalmes, J., Billerica Wastewater Treatment Plant, USA
12.00 – 12.30	Real-time control for phosphorus removal – a holistic approach Stenning, M., Nikolova-Kuscu, R., Thomas, P. and Germain-Cripps, E., Thames Water Utilities Ltd, UK
12.30 – 13.00	Full-scale reed beds with different steel slag fractions and apatite for phosphorus removal Fonseca, N. ^{1,2} , Cripps-Germain, E. ² , Pearce, P. ² , Dotro, G. ¹ , Jefferson, B. ¹ , ¹ Cranfield University, ² Thames Water Utilities Ltd, UK
13.00 – 14.00	Lunch & Exhibition
14.00 – 14.30	Development of a cost-effective autonomous sensor for nutrient monitoring in wastewater Benazouz, A., McCaul, M., Coleman S., Fay, C., McNamara, E. and Diamond, D., Dublin City University, Ireland
14.30 – 15.00	Mine water derived iron as a national opportunity for phosphate removal Moorhouse, A. and Watson, I., The Coal Authority, UK
Priority Chemicals Chair Geoff Cooper-Smith, Studies and Investigations, United Utilities	
15.00 – 15.30	Chemicals investigation programme 2 Cooper-Smith, G. ¹ And Hughes, J. ² , ¹ United Utilities, ² Thames Water, UK
15.30 – 16.00	Micropollutants and endocrine disrupting compounds removal by powdered activated carbon and sand ballasted clarification Marlin, P., Veolia Water Technologies, UK

16.00 – 16.30	Coffee Break & Exhibition
16.30 – 17.00	Micropollutants in the aquatic environment and their removal in wastewater treatment works Antakyali, D. ¹ , Morgenschweis, C. ² , de Kort, T. ² and Herbst, H., ¹ Grontmij GmbH Germany, ² Grontmij, Netherlands
17.00 – 17.30	Performances of the Continuous Flow Integrative Sampler (CFIS) for the monitoring of hormones and pharmaceuticals in hospital wastewaters Assoumani, A., Pedraza Berenguer, R., Gómez López, M., San Juan Tortosa, L., Tortajada Santonja, R. and Llorca Pórcel, J., LABAQUA S.A., Spain
17.30 – 18.00	Electro-generating chemicals <i>in situ</i> Morgan, P., Power and Water, UK
17.30 – 19.00	Drinks Reception in Great Hall
Room 2 Reception Room	
Data Collection and Plant Control Chair Stuart Ainsworth, RTC Optimisation Specialist, Hach	
11.30 – 12.00	What data should be carefully and intensively monitored to accurately model wastewater treatment works for active control? Ashagre, B. ¹ , Fu, G. ¹ , Davidson, K. ² , Butler, D. ¹ , ¹ University of Exeter, ² Scottish Water, UK
12.00 – 12.30	Reduce capital investments and operating costs with plant wide control – waste water manager – control – wastewater treatmentplant optimisation Sørud, M., K zka, A.A., Vangsgaard, A.K. and Ønnerth, T., Krüger A/S, Denmark
12.30 – 13.00	Big data vs smart lean data in the water industry Back, B.M., Radio Data Networks Limited, UK
13.00 – 14.00	Lunch & Exhibition
14.00 – 14.30	Operator 2.0: Event Horizon Diagnostics O'Brien, M., McEwan, M. and Mazier, S., Perceptive Engineering Ltd, UK
14.30 – 15.00	Over compliance through real time control. Sewerflex – sewer network optimisation Kunnerup, T.H., Sørud, M., Poulsen, T. S., Grum, M. and Jørgensen, A. T. Krüger A/S, Denmark
15.00 – 15.30	Data smart – operational efficiency solution Nair, A. and Gunaratnam, M., MWH Global, UK
15.30 – 16.00	Microscopy and filament identification as a tool for troubleshooting biological treatment processes Morley, E., Aqua Enviro Limited, UK
16.00 – 16.30	Coffee Break & Exhibition
16.30 – 17.00	Risk based analysis of wastewater treatment process Black, J. ¹ , Robinson, C. ² and Duffy, P. ² , ¹ United Utilities, ² MMI Engineering, UK

17.00 – 17.30	Attributes of a new VOC in water sensor Dean, F.W.H., Stockdale, M. and Witty, A., Ion Science Ltd, UK
Odour Problems Chair Nigel Horan, Aqua Enviro Limited	
17.30 -18.00	NOSE® Odour Monitoring Platform : a case study Bouchy, L. ¹ and Kelly, R. ² , ¹ Aqualogy Environment Ltd (SUEZ), ² Suez Environment, UK
18.00 – 19.00	Drinks Reception in Great Hall
Tuesday 13th October	
Room 1 Banqueting Room	
Attached Growth Processes Chair Jeremy Biddle, Technical Director, Bluewater Bio	
9.00 – 9.30	Effect of syphon-dosing on trickling filter performance Sindall, R., Perez-Salvador, J., Pearce, P. and Javis, S., Thames Water Utilities, UK
9.30 – 10.00	Roughing filters for enhanced ammonia removal Sindall, R., Germain-Cripps, E. and Pearce, P., Thames Water Utilities, UK
10.00 – 10.30	Operational cost savings in SAFs and MBBRs through selective plastic carrier use Dias, J. ¹ , Soares, A. ¹ , Judd, S. ¹ , Bellingham, M. ² , Hassan, J. ² and Barrett, M. ² , ¹ Cranfield University, ² Warden Biomedica, UK
10.30 – 11.00	Internal hydrodynamics of SAF reactors with varied media fill ratios Holloway, T., WPL Limited, UK
11.00 – 11.30	Coffee Break & Exhibition
Performance and Energy Efficiency Chair Lynne Bouchy, Aqualogy Environment Ltd (SUEZ)	
11.30 – 12.00	Optimising asp performance and energy efficiency using real time control - active swing zones Ainsworth, S. ¹ and Cannon, J. ² , ¹ Hach, UK, ² Southern Water, UK
12.00 – 12.30	Optimising performance, improving energy efficiency and reducing costs in wastewater pumping applications Fitzpatrick, G., Xylem, UK
12.30 – 13.00	Advanced aeration control in sewage treatment works Ripoll, F. ¹ and Massagué, A. ² , ¹ Sisltech, ² Aqualogy Environment Ltd (SUEZ), UK

13.00 – 14.00	Lunch & Exhibition
14.00 – 14.30	Smart income from ‘smart devices’ with dynamic demand Richards, G., Open Energi Ltd, UK
14.30 – 15.00	Recent technology advances on membrane applications with low energy consumption Monti, A., GE Power and Water, UK
Room 2 Reception Room	
Panel Debate - What is the potential scope for real-time control in the UK water industry? Chair – Andrew Thornton, Head of Project Development Northern Europe, Hach	
9.00 – 11.00	Panel: Simon Mazier, Perceptive Engineering Oliver Grievson, Anglian Water John Cannon, Southern Water Ajay Nair, MWH Anthony Kyriacou, Severn Trent Water Lynne Bouchy, Aqualogy Environment Ltd (SUEZ)
11.00 – 11.30	Coffee Break & Exhibition
Innovative Solutions Chair Michael From, Business Development Director, Veolia Water Technologies	
11.30 – 12.00	Organic coagulants for increased biogas production and reduced energy consumption at WWTPs Szatkowska B. ¹ , Jaroszynski, L. ² , Paulsrud B. ¹ , Budyach-Gorzna, M. ³ , Szczepecki K. ³ and Jaroszynski, T. ² , ¹ Aquateam-COWI, ² Poznan University of Technology, ³ AQUANET, Poland
12.00 – 12.30	Cost-effective retrofitting of existing sewage ponds – a case study for rural areas Pfeiffer, F. ¹ and Massagué, A. ² , ¹ Systems S&P, ² Aqualogy Environment Ltd (SUEZ), UK
12.30 – 13.00	The challenges and opportunities of innovative permitting Piekarniak, L., Daldorph, P., Thomas, H. and Thornton, A., Atkins, UK
13.00 – 14.00	Lunch & Exhibition
14.00 – 14.30	Use of biofilm to seed the new activated sludge process at Liverpool WWTW Black, J. and Molloy, R., United Utilities, UK
14.30 – 15.00	Grey water treatment using the Arvia process Oki, R. ¹ , Brown, N.W. ² , de las Heras, N. ² and Ford, R. ¹ , ¹ University of Salford, ² Arvia Technology Ltd, UK

Room 3 Lord Mayor	
Solids Removal Systems	
Chair Ken Shapland, Business Strategy Advisor, Aqua Enviro Ltd	
9.00 – 9.30	Time for some agile thinking Bullen, C. and Matthews, R., Siltbuster Process Solutions, UK
9.30 – 10.00	Storm water discharges – dedicated treatment by sand ballasted clarification Cooper, P., Veolia Water Technologies, UK
10.00 – 10.30	FilterClear – advanced tertiary solids removal technology Huo, C., Harnett, R. and Biddle, J., Bluewater Bio Ltd, UK
10.30 – 11.00	Using the modelling toolkit to better understand FST behaviour - storm events Grand, A. ¹ , Jarvis, S. ² , Egarr, D. ¹ and Burt, D. ¹ , ¹ MMI Engineering, ² Thames Water Utilities, UK
11.00 – 11.30	Coffee Break & Exhibition
Inlet Works and Primary Treatment Options	
Chair Paul Barter, Principal Process Engineer, Hydro International	
11.30 – 12.00	Advanced primary treatment with primary microflotation Sindall, R., Pearce, P. and Germain-Cripps, E., Thames Water Utilities, UK
12.00 – 12.30	Primary settlement tanks: auto-desludging optimisation Sindall, R. and Collin, T. Thames Water Utilities, UK
12.30 – 13.00	Continuous rotating belt filtration for primary treatment and CSO Mannion, R., Evergreen Engineering Ltd, Ireland
13.00 – 14.00	Lunch & Exhibition
14.00 – 14.30	Problems with stormwater discharges Back B., Radio Data Networks, UK
14.30 – 15.00	Inlet works – is utopia possible? Foster, D., Huber Technology, UK