

The BIG Phosphorus Conference & Exhibition - Removal and Recovery

4th-5th July 2017, Manchester United Football Stadium, Manchester

Tuesday 4th July
ROOM 1
PLENARY
The National Phosphorus Trial – A collaborative programme towards low Phosphorus levels Pete Vale, Severn Trent Water, UK
Is the water industry ready for the challenge of operating wastewater treatment works for low phosphorus consents? Narinder Sunner, MWH
REMOVAL
Rare earth technology for low-level phosphorus removal and enhanced sludge properties Pam Cornish, Neo Materials & Oxides, USA
Design recommendations for the use of domestic water treatment residuals to remove phosphorus from wastewater Ben Gersten, Cardiff University, UK
Meeting <1mg/l Total Phosphorus permits on small ASP sites – do we need Tertiary Solids Removal? Rosemary Barker ¹ , Emilie Cope ¹ , Jimmy Nguyen ¹ , Thomas O’Shea ¹ , Denys Wickens ¹ , Eddison Ruswa ¹ and Julie Jeavons ^{2,1} Severn Trent Water, ² MWH Global, UK
Actiflo for Phosphorus Removal Paul Cooper, Veolia, UK
Metabolic modelling of full-scale enhanced biological phosphorus removal sludge Ana Lanham, Adrian Oehmen, Aaron Saunders, Gilda Carvalho, Per Nielsen, Maria Reis, University of Bath, UK
Engineered wetlands for phosphorus removal and recovery: from concept through to application Akintunde Babatunde, University of Leeds
CATCHMENT CONTROL
Phosphorus removal in the catchment Chris Bullen, Silbuster, UK

<p>Catchment permitting trial – the first 6 months Lydia O’Shea, Wessex Water, UK</p>
<p>Innovative schemes for Phosphorous management: directions of research and development Joanne Rands, United Utilities, UK</p>
<p>ROOM 2</p>
<p>CONTROL AND MONITORING</p>
<p>Advanced process control giving efficient biological phosphorus removal in SBR's Jonny Newman¹, Åsa Henriksson¹, and Christian Baresel², ¹Xylem, ²IVL, Sweden</p>
<p>Cost effective sensing platform for the detection of phosphate in natural waters Andrew Donohue, Margaret McCaul, Gareth Lacour, Kevin Grimes, Eoghan McNamara, Dermot Diamond, Insight Centre of Data Analytics, Ireland</p>
<p>European phosphorus removal lessons for UK application Stuart Ainsworth, Hach, UK</p>
<p>TECHNOLOGY</p>
<p>A review of the use of the CoMag process in the removal of Phosphorus in Waste water treatment plants Simon Radford and Jim Goodwin, Evoqua, UK</p>
<p>Filterclear to meet ultra-low phosphorus consent Caroline Huo¹, Lynn Smith² and Karen Young³, ¹Bluewater Bio, ²Yorkshire Water, ³Arup, UK</p>
<p>Case studies of proven solutions for reaching low P consent limits: high rate settling (Densadeg) and high rate flotation (Greendaf) Lynne Bouchy, Suez Water UK</p>
<p>Phosphorus recovery at existing WWTP's - a step change from waste separation to fertilizer production Peter Balslev, Suez Water (AS), Denmark</p>
<p>Sustainable phosphorus removal with BOF steel slag and apatite: mechanisms and challenges Naiara Fonseca^{1,2}, Eve Germain-Cripps¹ and Bruce Jefferson², ¹Thames Water, ²Cranfield University, UK</p>
<p>Ash2®Phos – Clean commercial products from sludge ash Yariv Cohen and P. Enfalt, Easy Mining, Sweden</p>
<p>Algae for chemical free removal and recovery of phosphorus – an industrial approach Daniel Murrey and Lucie Novoveska, Industrial Phycology, UK</p>
<p>Wednesday 5th July</p>
<p>ROOM 1</p>
<p>PLENARY</p>
<p>An English perspective on phosphorus stewardship and the Water Framework Directive Simon Leaf, Environment Agency, UK</p>

<p>Policy developments in Europe: biosolids, recycling and fertilisers legislation and standards etc. Chris Thornton, European Phosphorus Platform Sustainable</p>
<p>RECOVERY</p>
<p>Seeding Solutions for the “Wicked” Challenge of Phosphorus Removal and Recovery: Perspectives from the Winner of the Opening Phase of the Everglades Foundation US\$10M George Barley Clean Water Science Prize Gregory Möller, University of Idaho, USA</p>
<p>Phosphorus recovery at WWTP Amsterdam West, best practices Alex Veltman and Jacqueline de Danschutter, Waternet, The Netherlands</p>
<p>Phosphorus recovery from wastewater – two different approaches Carsten Meyer, Asya Drenkova-Tuhtan, Volker Preyl and Harald Schönberger, University of Stuttgart, Germany</p>
<p>The rising constraints of phosphorus in biosolids recycling to land Edoardo Piano¹, Max Rooksby¹, Sergio Macias¹, Vincent Glancy¹, Tom Taylor² and Kelly Neild² ¹Arup, ²Yorkshire Water, UK</p>
<p>Struvite crystallization in a full-scale plant after autotrophic nitrogen removal (ELAN process) Nicolas Morales¹, J. Vázquez-Padín¹, F. Rogalla¹, D. Crutchik² and J. M. Garrido² ¹FCC Aqualia, ²University of Santiago de Compostela, Spain</p>
<p>Electrochemical recovery of P as a struvite Phillip Morgan, Power and Water, UK</p>
<p>Phosphorus recovery from aqueous solutions using Ca-doped Biochar produced from biosolids via microwave assisted pyrolysis Elsa Antunes¹, Mohan V. Jacob², Graham Brodie² and Philip A. Schneider³, ¹James Cook University, ²The University of Melbourne, ³Murdoch University, Australia</p>
<p>Modification of biochars to enable the recovery of P Patrick Melia¹, Peter Hooda¹, Rosa Busquets¹, Andrew Cundy² and Saran Sohi³, ¹Kingston University, ²University of Southampton, ³University of Edinburgh, UK</p>
<p>Business opportunities for Veolia’s recycled fertiliser made from bio-ashes Patricia Arcenegui, Veolia, UK</p>
<p>ROOM 2</p>
<p>OPERATIONAL</p>
<p>The design and operational lessons from the YWS CIP phosphorus removal trials Karen Young¹, Vincent Glancy¹, Edoardo Piano¹, and Lynn Smith², ¹Arup, ²Yorkshire Water, UK</p>
<p>The impact of the NEP programme on sludge and energy production within the Yorkshire region Edoardo Piano¹, Mark Green¹ and Vincent Glancy¹, Timothy Ellis² and Tom Taylor², ¹Arup, ²Yorkshire Water, UK</p>
<p>Asset optimisation schemes: maximising current potential to achieve tighter Phosphorus consents Pete Vale¹, Luca Alibardi¹ and Geraldine Shortland², ¹Severn Trent Water, ²United Utilities, UK</p>

EXPERIENCES

Improving Phosphorus removal with Magnetite assisted settlement (BioMag & Co-Mag)

Jane Youdan¹, Stephen Tomlin¹, Bernie Glanville² and Adam Brookes³, ¹Wessex Water, ²Northumbrian Water, ³Anglian Water, UK

Phosphorous removal at an ASP and Filter Works using Mecana Filter Technology - findings and experiences from CIP P trials

Lynn Smith¹, Estela Alvarez Moreta², Pete Gardner³ and Lewis O'Brien⁴, ¹Yorkshire Water, ²Thames Water, ³South West Water, ⁴Hydrok, UK

Continuous backwash gravity sand filters: experiences from BluePRO installations

Victoria Wilson¹, Adam Brookes², Pete Vale³ and Luca Alibardi³, ¹Dwr Cymru Welsh Water, ²Anglian Water, ³Severn Trent Water, UK

DynaSand® Oxy for combined nitrification and Phosphorus removal: experiences from Anglian Water

Adam Brookes¹ and Paul Barter², ¹Anglian Water, ²Hydro, UK

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