

## Programme BIWA HH - May 26, 2014

Time	
15:30-15:40	<b>Welcome by Vivaqua - Olivier Lagneau</b>
15:40-16:00	<b>BIWA Awards 2014 - Chair Diederik Schowanek (P&amp;G)</b>
	<b>Session 1 - Chair Ilse Smets (KU Leuven)</b>
16:00-16:10	Treatment of waste water from ion exchange for NOM removal resulting in zero liquid discharge <u>L. Verdickt</u> , V. D'Haseleer and J. Cromphout (De Watergroep)
16:10-16:20	The semi-sewer river: hydraulic backwater effects and combined sewer overflow reverse flows in Central Brussels reduce deoxygenation impact further downstream H. M. Le, D. Petrovic and <u>M. A. Verbanck</u> (ULB)
16:20-16:30	Data Quality Evaluation for a large turbidity database collected on multiple Flemish CSOs B. Vallet, T. Wambecq, S. Kroll and M. Weemaes (Aquafin)
16:30-16:40	Salt stress in MBRs: dynamics of sludge properties, membrane fouling and remediation through PAC dosing <u>L. De Temmerman</u> , T. Maere; H. Temmink; A. Zwijnenburg and I. Nopens (UGent, BIOMATH)
16:40-16:50	MBR fouling versus bioflocculation: how to model it? <u>T. A. Cao</u> , G. Van De Staey and I.Y. Smets (KU Leuven, BioTeC)
16:50-17:00	Model-based optimisation of a full-scale hybrid MBR <u>Maere</u> et al. (UGent, BIOMATH)
17:00-17:10	Biokinetic modelling of a Waste Stabilization Pond in combination with a compartmental model for hydrodynamics A. Alvarado, Y. Amerlinck, S. Vedantam, P. Goethal, <u>I. Nopens</u> (UGent, BIOMATH)
17:10-17:50	<b>Discussion followed by coffee break</b>
	<b>Session 2 - Chair Greet De Gueldre (Aquafin)</b>
17:50-18:00	Influence of organic, colloidal and combined fouling on NF/RO membrane performance: specific solute-foulant-membrane interactions influencing rejection of pharmaceuticals <u>O.T. Mahlangu</u> , BB. Mamba, EMV. Hoek and ARD. Verliefdé (UGent, Paint)
18:00-18:10	Pharmaceutical transport mechanisms in Forward Osmosis <u>A. D'Haese</u> , and A. Verliefdé (UGent, PAINT)
18:10-18:20	Full-scale evaluation of process conditions leading to N <sub>2</sub> O emission from wastewater treatment <u>M.R.J. Daelman</u> , E.M. van Voorthuizen, L.G.J.M. van Dongen, E.I.P. Volcke and M.C.M. van Loosdrecht (TUDelft, Dept. Biotechnology and UGent, BIOSYS)
18:20-18:30	UV/H <sub>2</sub> O <sub>2</sub> , O <sub>3</sub> and (photo-) Fenton as a pre-treatment to granular activated carbon filtration of biologically stabilized landfill leachate <u>M. Chys</u> , W. Declerck, W.T.M. Audenaert and S.W.H. Van Hulle (UGent, HOWEST, LIWET)
18:30-18:40	Effect of Sensor Location on Controller Performance in a Wastewater Treatment Plant <u>U. Rehman</u> et al. (UGent, BIOMATH)
18:40-18:50	Full scale P-recovery from digested waste water sludge in Belgium a first cost-benefit <u>S. Geerts</u> (Aquafin)
18:50-19:00	Comparing the influence of ultrasonic and microwave pre-treatment on the solubilisation and semi-continuous digestion of waste activated sludge <u>S. Houtmeyers</u> et al. (KU Leuven, Thomas More De Nayer, Promil)
19:00-21:00	<b>Discussion followed by networking reception</b>