

Time	08/07/2024 (Monday)		
10:00 – 11:00	Conference Registration (Hallway)		
11:00 – 12:15	<b>Opening Ceremony (S.C.003)</b> <b>Welcome</b> by Michiel Van Tendeloo and Tim Van Winckel in name of the Organising Committee <b>Welcome</b> by prof. Ronny Blust, Vice Rector Research of the University of Antwerp  <b>Keynote</b> by prof. Ilse Smets (KU Leuven) "Activated sludge bioflocculation research: from failures to flocs"		
12:15 – 13:00	<b>Partner talks (S.C.003)</b> <b>PIDPA</b> <b>Sweco</b>		
13:00 – 13:45	Lunch (Hallway)		
13:45 – 14:30	Posters (Hallway)		
Room	S.C.001	S.C.002	S.C.003
Session	1. Water Quality Analysis and Monitoring I <i>Chair: Janelcy Alferes</i>	2. Nutrient removal and recovery <i>Chair: Siegfried Vlaeminck</i>	3. Modelling and simulation <i>Chair: Saba Daneshgar</i>
14:30 – 15:00	Water quality monitoring: challenges, opportunities and best practices Janelcy Alferes	To nitrify or not to nitrify: Routes to sustainably manage nitrogen in wastewater Siegfried Vlaeminck	Transition of urban water system modelling to digital twin applications Saba Daneshgar
15:00 – 15:20	Water chemistry analysis using variable selection methods and industrial cooling water data sets Chamanthi Jayaweera (UGent)	Combined phosphorus and EPS recovery from aerobic granular sludge WWTPs Nouran Bahgat (Wetsus)	Dynamic modelling of ion exchange for a smart and resource-efficient operation Daniel Illana González (UGent)
15:20 – 15:40	Towards an optimal coagulant dosage model: describing the size distribution dynamics in jar tests Diogo Abreu (UGent)	Ammonia recovery from real reject water via a combination of bipolar membrane electrodialysis and electrodialysis reversal Iosif Kaniadakis (TUDelft)	Design activated sludge bioreactor with minimal N2O emissions and best effluent quality Simon Ducchi (AM-Team)
15:40 – 16:00	Evaluating the efficacy of several extraction kits for genomic DNA isolation from periphyton microbial communities used for water quality monitoring Lena Brouwir (CEBEDEAU)	A novel thermophilic nitrification process for sustainable nitrogen removal Mingsheng Jia (UGent)	Is model selection relevant to predict denitrification performance in WRRFs? David Fernandes del Pozo (UGent)
16:00 – 16:20	Size exclusion chromatography-total organic carbon analysis for natural organic matter in fresh waters: method validation and application Elien Laforce (UGent)	Nitrogen removal from source-separated urine with partial nitrification/anammox in a rotating biological contactor Iris De Corte (UAntwerpen)	Modeling Anaerobic digester for enhancing mixing performances Simon Ducchi (AM-Team)
16:20 - 16:45	Walk to Opening Reception		
16:45 – 19:45	<b>Opening reception</b> (Lokeend: Generaal Belliardstraat 11, 2000 Antwerpen)		

Time	09/07/2024 (Tuesday)		
08:30 – 09:00	Conference Registration (Hallway)		
Room	S.C.001	S.C.002	S.C.003
Session	4. Process Control and Optimization <i>Chair: Kimberly Solon</i>	5. Innovative technologies <i>Chair: Michel Caluwé</i>	6. Advanced Processes for (Waste)Water Treatment <i>Chair: Pieter Naert</i>
09:00 – 09:30	[R]evolutionizing Wastewater Treatment: The Journey, Insights, and Opportunities in Process Control Kimberly Solon	From practice to theory: Advancements in Aerobic Granular Sludge Systems Michel Caluwé	The potential of electrochemical technologies for advanced water treatment – a practical perspective Pieter Naert
09:30 – 09:50	Control of purple bacteria in raceway-pond reactors: how to deal with lake of knowledge of operators using model predictive control Ali Moradvandi (TUDelft)	Granulation of industrial activated sludge by application of microbial selection and effect of variable OLR on sludge properties Mokhtiar Ahmed (UAntwerpen)	Integrated spectral based monitoring, optimization and control of the combined ozonation and powdered activated carbon adsorption process to remove organic micropollutants from secondary effluent Tao Zhang (UGent)
09:50 – 10:10	Impact of feeding strategies on aerobic granulation Zehao Li (UAntwerpen)	LUCAS® AGS technology: unraveling the impact of different feeding strategies while treating brewery wastewater Núria Mata Calabuig (Waterleau)	Pilot plant operation for the micropollutant removal in wastewater by coupling photo-Fenton and GAC filtration processes Paula Núñez Tafalla (University of Luxembourg)
10:10 – 10:30	Nitrification optimization in a trickling filter through CO2 stripping reduction Patricia Gutiérrez Lozano (UAntwerp)	Exploring Simultaneous Nitrification, Denitrification, and Phosphorus Removal for the Sustainable Treatment of Carbon-Limited Potato-Processing Wastewater Johanna Korte (UAntwerpen)	Designing a full-scale ozonation reactor supported by Computational Fluid Dynamics for minimal bromate formation and maximal micropollutants removal Simon Ducchi (AM-Team)

10:30 – 10:50	<b>Harvesting Solutions: Optimizing Phosphate and Nitrogen Removal in an SBR Cycle for Potato Processing Wastewater Treatment</b> Jana Weyns ( <i>UAntwerpen</i> )	<b>Effect of feeding strategy on aerobic granular sludge formation in the treatment of brewery wastewater</b> Haixin Duan ( <i>UAntwerpen</i> )	<b>Desalting and concentrating sugar solutions using a combination of electrodialysis and reverse osmosis at pilot-scale</b> Monique Woen ( <i>Lenntech</i> )
10:50 – 11:20	<b>Break (Hallway)</b>		
Room	S.C.001	S.C.002	S.C.003
Session	<b>7. Water Quality Analysis and Monitoring II</b> Chair: <i>Emile Sylvestre</i>	<b>8. Membrane Technology and Filtration Processes</b> Chair: <i>Marjolein Vanoppen</i>	<b>9. Water Reuse and Recycling</b> Chair: <i>Sam Van Nevel</i>
11:20 – 11:50	<b>Leveraging regulatory monitoring data for quantitative microbial risk assessment (QMRA)</b> Émile Sylvestre	<b>Membranes for circularity: Paving the path to sustainability</b> Marjolein Vanoppen	<b>Large scale industrial water reuse</b> Sam Van Nevel
11:50 – 12:10	<b>Rapid alternative parameters for HPC22 to determine the microbial water quality after repairs in the drinking water distribution system</b> Frits van Charante ( <i>KWR</i> )	<b>Towards a Unified Framework for Modelling of Bipolar Membrane Electrodialysis for resource recovery processes</b> Gaëtan Herold ( <i>UGent</i> )	<b>Novel MABR-MBR combination to remove organics for competitive local water reuse</b> Marijn Timmer ( <i>UAntwerpen</i> )
12:10 – 12:30	<b>Keeping it clean: How to improve data quality and quantity for WRRF</b> Frie Van Bauwel ( <i>VITO</i> )	<b>Characterization of disinfection by-product precursors from natural organic matter through a novel membrane fractionation</b> Karlien Dejaeger ( <i>UGent</i> )	<b>Generational Radical Rethinking of Water Sector Paradigms</b> Janine de Wit ( <i>KWR</i> )
12:30 – 12:50	<b>Modular platform for preserving and preparing water samples for low abundance viable microbe detection</b> Hetty KleinJan ( <i>CEBEDEAU</i> )	<b>Effect and mechanism of solution flow rate during interfacial polymerization on the performance of hollow fiber membranes</b> Lianshuai Tan ( <i>UGent</i> )	<b>Sterile gel entrapment setups for fundamental wastewater treatment research</b> Laurens Parret ( <i>KULeuven</i> )
12:50 – 13:10	<b>Surface water pollution in Ecuador and the Galapagos Islands: two case studies</b> Thi Kim Dung Pham ( <i>UGent</i> )	<b>Reverse Osmosis Membrane Modification with Novel Polymers: Rejection of Small Neutral Organic Micropollutant for Water Reuse</b> Mei An ( <i>UGent</i> )	<b>On-site light greywater treatment using a vertical-flow constructed wetland for the removal of personal care products and water reuse in a Luxembourgish public school</b> Fernanda Cristina Muniz Sacco ( <i>University of Luxembourg</i> )
13:10 – 13:55	<b>Lunch (Hallway)</b>		
13:55 – 14:15	<b>Posters (Hallway)</b>		
<b>Parallel workshops (participation in accordance with registration form)</b>			
Room	S.C.002	S.C.101	S.C.102
14:15 – 16:15	<b>Trends in the water sector</b>	<b>Sustainability</b>	<b>How to handle data + statistics</b>
16:15 – 17:15		<b>Circular economy</b>	<b>Water Quality</b>
17:15 – 17:30	<b>Preparation for a city walk</b>		
17:30 – 19:30	<b>Guided city walk</b>		

19:30 – 22:30	<b>Conference Dinner</b> (Hof van Liere / Universiteitsclub)
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10/07/2024 (Wednesday)			
09:30 – 10:00	Conference Registration (Hallway)		
Room	S.C.001	S.C.002	S.C.003
Session	<b>10. Pathogen Control and Microbial Ecology</b> <i>Chair: Jorien Favere</i>	<b>11. Water Policy and Governance</b> <i>Chair: Marjolein Vanoppen</i>	<b>12. Resource Recovery and Circular Economy I</b> <i>Chair: Ralph Lindeboom</i>
10:00 – 10:30	Bringing online microbial monitoring from research to practice Jorien Favere	Waterreuse, balancing risk and opportunities Kris Van den Belt	Frugal engineering solutions for nutrient, energy and water recovery from negative value waste(water) Ralph Lindeboom
10:30 – 10:50	Investigating quorum quenching bacteria as novel probiotic biofilm biocontrol Lena Brouwir (CEBEDEAU)	Impact of Personalized Online Courses on the Professional Development of Water Treatment Plant Operators: An Experimental Study in Ecuador Martín Bustamante-León (UGent)	Selective recovery of valuable organic acids from complex microbial fermentation through adsorption Lingshan Ma (UGent)
10:50 – 11:10	Ice slurry pigging technology in drinking water distribution system: from flow mechanisms to pipelines cleaning application Jiamin Hu (UGent)	Fostering Acceptance of Alternative Drinking Water Sources: The Nexus of Morality and self-efficacy Estefanya Vazquez (UGent)	Timing is everything – Changes of Urine Composition within 24 hours Nele Kirkerup (EAWAG)
11:10 – 11:30	Optimised FISH analysis for multiple species in cryosectioned aggregates: a co-culture gel entrapment case-study Hannah Vanhooft (KULeuven)	WaterValue: Unraveling Price Perceptions and Value Experiences in Domestic Tap Water Consumption Lien Dieleman (UAntwerpen)	Lipid hydrolysis quantification 2.0: an improved high-throughput protocol for activated sludge flocs and granules Toon Coelmont (KULeuven)
11:30 – 11:50	Pilot-scale study: Impact of temperature and water source on drinking water bulk and biofilm microbiome Fien Waegenaar (UGent)	Proposing solutions to address water reuse within the new European legal framework – the LétzREUSE project approach Irene Salmerón (TR-Engineering)	Enzymatic pretreatment of fat, oil and grease-rich wastewater for the enhancement of anaerobic digestion processes Gilles Quabron (CEBEDEAU)
11:50 - 12:35	Lunch (Hallway)		
12:35 - 13:00	Posters (Hallway)		
Room	S.C.001	S.C.002	S.C.003
Session	<b>13. Wastewater Treatment Technologies</b> <i>Chair: Jan Dries</i>	<b>14. Micropollutants and emerging contaminants</b> <i>Chair: Amanda Larasati</i>	<b>15. Resource Recovery and Circular Economy II</b> <i>Chair: Paul Roeleveld</i>
13:00 – 13:30	It's the Biology, stupid! Challenges and opportunities in industrial wastewater engineering Jan Dries	Addressing emerging organic contaminants beyond the tap Amanda Larasati	With resource recovery towards a self-sustaining treatment of wastewater Paul Roeleveld
13:30 – 13:50	Next-generation continuous-flow SBR technology for municipal wastewater treatment Paula Carrera (UGent)	Biological micropollutant removal: Contributions of new and established microorganisms in ozone - activated carbon filters Daniel Moderall Sperling (UAntwerpen)	Halophilic Purple Phototrophic Bacteria for Sustainable Mussel Wastewater Treatment and Microbial Protein Production Luis Allegue (UAntwerpen)
13:50 – 14:10	Tackling oily industrial wastewater – a membrane comparison study Johanna Hinrichs (LennTech)	Screening of (various) PFAS removal technologies for industrial wastewater treatment Bartel Devos (UGent)	Creating a positive business case around nitrogen recovery from digested sludge centrate Francis Meerburg (Aquafin)
14:10 – 14:30	Per and poly-fluoroalkyl substances removal from Industrial wastewater Srishti Singh (UAntwerpen)	Sustainable micropollutants removal from water with biological activated carbon filtration and ozonation Helena Verloo (Royal HaskoningDHV)	From WWTP effluent to irrigation water in the fruit region Emilia Liégeois (VITO)
14:30 – 14:50	Regeneration of Magnetic Powdered Activated Carbon for the Removal of Organic Pollutants from Secondary Wastewater Effluents Zoé Béalu (University of Kaiserslautern-Landau)	The family of forever PFAS chemicals in industrial bio-effluent: a struggle to say goodbye to PFAS Michel Clauwé (Waterleau)	Digestate fractionation by dynamic membrane filtration coupled with coagulation and flocculation for water reuse and nutrient valorization Aldo Betancourt Sanchez (Toulouse Biotechnology Institute)
14:50 – 15:10	Break (Hallway)		
15:10 – 16:40	<b>Closing Ceremony (S.C.003)</b>  <b>Closing keynote speech</b> by Emilie Courtens (Ekopak) " Innovations and Challenges for Sustainable Industrial Water Supply " <b>Best presentation &amp; poster awards</b>		