Monday, 19th of May		
11:30 – 13:00	Wetsus building	
	Young Water Professional Lunch	
13:15 – 16:15	Wetsus building	De Harmonie Theatre
	Workshop 1: Clean products from waste? Leveraging biotechnology to turn complex waste streams into high-purity products *Organized by CMET and TRASlab (Ghent University), in collaboration with the projects AgriLoop and Manurefinery HEU*	Workshop 3: Logistics and business models for resource recovery *Organized by BlueTech Research*
	Workshop 2: Resource recovery by phototrophic organisms *Organized by TU Delft and IHE Delft Institute for Water Education*	Workshop 4: Unlocking circular innovation in the water sector: Navigating end-of-waste. *Organized by BIOAZUL, KWB, and AquaMinerals and supported by BOOST-IN project*
	Workshop 5: Seeing through the dark side of extracellular biopolymers from waste sludge in an artistic way *Organized by TU Delft and Nesie Wang (freelance artist)*	
16:30 – 17:45	Meeting point communicated later	Meeting point communicated later
	Canal tour	Historical and street art walking tour
18:00 – 20:00	Wetsus building	
	Welcoming cocktail	
End of day 1		

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Tuesday, 20th of May			
De Harmonie Theatre			
8:30 - 9:00	Conference registration		
9:00 - 9:20	Middenzaal		
	Welcoming ceremony		
9:20 - 10:50	Middenzaal **Plenary session – Vision** *moderated by Mark van Loosdrecht, Delft University of Technology (The Netherlands)* Keynote speakers: • Cora Uijterlinde, Energy & Resource Factory (The Netherlands) • Bernhard Truffer, EAWAG (Switzerland) • Brigitte Lamaze, European Space Agency (The Netherlands)		
10:50 - 11:15	Coffee break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Nutrients for fertilisers	High value carbon product 1	Emerging resources
Chairs	*Senior chair: Steve Wirtel, Gross Wen Technologies (USA)* *Young Water Professional chair: Fangyue Peng, Harbin Institute of Technology (China)*	*Senior chair: René Rozendal, Paques Biomaterials (The Netherlands)* *Young Water Professional chair: Ruggero Rossi, Penn State University (USA)*	*Senior chair: Saber A. El-Shafai, Water Pollution Research, National Research Center, (Egypt)* *Young Water Professional chair: Prashanth Kumar, Plaksha University (India)*
Session keynote 11:15 - 11:40	Circular fertilisers from sanitation, urban wastewater, and agri-food industry process water - *Kees Roest, KWR Water Research Institute (The Netherlands)*	Upscaled open-culture production of microbial flocculants from industrial wastewaters - *Carlos Contreras-Davila, Wetsus and Paques (The Netherlands)*	The forgotten nutrient - new approaches towards potassium (K) recovery - *Cora Eichholz, University of Kaiserslautern-Landau (Germany)*
Oral presentations 11:40 - 12:20	NPHarvest journey from academia to business - commercialization experiences in the field of nutrient recovery - *Juho Uzkurt Kaljunen, NPHarvest (Finland)*	Sewage sludge-based bio-adhesive for plywood - *Gaojun Wang, Xi'an University of Architecture and Technology (China)*	Oligotrophic biofilms for the recovery of manganese as crystalline manganese oxides (MnOx) - *Amanda Larasati, Wetsus (The Netherlands)*
	Multifunctional bioelectrochemical system for: wastewater treatment, nutrient recovery, and hydrogen production - *Jorge Luque-Rueda, Leitat Technological Center (Spain)*	Extracellular Polymeric Substances (EPS) extracted from aerobic granules as bioadhesives for sunflower bark particleboards: mechanical and thermal insulation properties - *Abdo Bou Sarkis, UniLaSalle Transformations and Agro-Ressources (France)*	The water-soluble fraction of extracellular polymeric substances from a resource recovery demonstration plant: characterization and potential application as an adhesive - *Le Min Chen, Delft University of Technology (The Netherlands)*
	N & P recovery for efficient wastewater treatment and supply of raw materials for fertilizers - *Eugenio Marín Marín, Aqualia (Spain)*	Green flocculant of Aspergillus Niger fungus cultured from food waste hydrolysate for enhanced sludge dewatering - *Yingfei Sun, Tsinghua University (China), and Berkeley university of California (USA)*	Carboxylate recovery from PHA & PLA plastics via hydrothermal pretreatment and open-culture fermentation - *Yong Jin, Wageningen University & Research, (The Netherlands)*
Poster pitches 12:20 - 12:30	Donnan dialysis for improved resource recovery from greenhouse wastewater electrodialysis concentrate: selectively separating Na+ and K+ - *Tavishi Guleria, KWR Water Research Institute, (The Netherlands) and Ghent University (Belgium)*	Development of novel adsorbent biomaterials based on structural extracellular polymeric substances (sEPS) recovered from aerobic granular sludge for the treatment of heavy metal-contaminated wastewater - *Benedetta Pagliaccia, University of Florence (Italy)*	Leveraging alum sludge for natural organic matter and PFAS removal in drinking water treatment - *Dane Elliott, Ohio State University and Stantec (USA)*

	From microalgae to biofertilizers: resource recovery from wastewater to minimize inorganic fertilizer use - *Etiele Morais Universitat Politècnica de Catalunya (Spain)*	Energy-efficient redox modulation for enhanced biomass value: enabling sustainable biorefinery feedstocks from wastewater treatment - *Xueyang Zhou, University of Auckland (New Zealand)*	Sulfur in the post-fossil age: An exploratory mass flow analysis to identify opportunities for a circular sulfur system in The Netherlands - *Annemerel Mol, Wageningen University & Research, (The Netherlands)*
	Comparison of physicochemical changes in carbon and nutrients of anaerobically digested, composted or fermented single dairy manure input – *Lourens van Langeveld, Wetsus and Wageningen University & Research (The Netherlands)*	Flocculation kinetics and mechanisms of extracellular polymeric substances in clay suspensions - *Bohan Chen, Wetsus and Wageningen University & Research (The Netherlands)*	Siderophore assisted recovery of germanium from industrial wastewater: an approach towards circular economy - *Aratrika Ghosh, Helmholtz zentrum Dresden Rossendorf (Germany) and Indian institute of Technology (India)*
12:30 - 14:00	Grote Foyer		
	Lunch break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Nitrogen recovery 1	High-value carbon products 2	Combined recovery approaches 1
Chairs	*Senior chair: Rudy Maltos, Metro Water Recovery (USA)* *YWP chair: Etiele Morais, Universitat Politecnica de Catalunya (Spain)*	*Senior chair: Baicang Liu, Sichuan university (China)* *YWP chair: Carien Spagnuolo, CleanteQ (Australia)*	*Senior chair: Giorgio Mannina, University of Palermo (Italy)* *YWP chair: Benton Otieno, Vaal University of Technology (South Africa)*
Session keynote 14:00 - 14:25	Leveraging organic acids in bipolar membrane electrodialysis (BPMED) can enhance ammonia recovery from scrubber effluents - *Gladys Mutahi, Delft University of Technology (The Netherlands)*	Unlocking the potential of kaumera biopolymer: from wastewater to marketable resource - *Sjoerd Kerstens, Royal Haskoning DHV and Martijn Bovee, Kaumera sales & services BV, (The Netherlands)*	Closing the loop: microalgae for digestate valorisation and as co-substrate for the anaerobic digestion of agri-food industry by-products - *Miguel Martínez-Quintela, BETA Technological Center (Spain)*
Oral presentations 14:25 - 15:05	Aqua2®N – innovative technology to remove and recover nitrogen from wastewater - *Lars Bergmann, EasyMining (Sweden)*	Fire performance of extracellular polymeric substances recovered from waste aerobic granular sludges - *Nam Kyeun Kim, University of Auckland (New Zealand)*	Navigating conflicts and synergies in resource recovery - *Jouke Boorsma, AquaMinerals (The Netherlands)*
	Low-energy thermal stripping to recover quality ammonia for the water sector - *Mark Powders, Cranfield University (United Kingdom)*	Transforming waste into wealth: enhancing natural microbiomes for the production of high-value water sector Bioproducts - *Eleonora Paissoni, Isle Utilities (United Kingdom)*	A decade of developing comprehensive nutrient and carbon recovery from municipal wastewater in Helsinki region, Finland - *Maria Valtari, Helsinki Region Environmental Services HSY (Finland)*
	Sustainable nitrogen recovery from industrial wastewater - *Ioanna Gkoutzamani, EVIDES Industriewater BV (The Netherlands)*	Uncovering the potential of structural extracellular polymeric substances from partial nitritation granular sludge: a comparative study with aerobic granular sludge - *Jan Pietro Czellnik, University of Florence (Italy)*	Sequential treatment of cheese whey to enhance biohydrogen production: coupling dark fermentation in presence of electrically conductive materials to microbial electrolysis - *Carolina Cruz Viggi, CNR-IRSA (Italy)*
Poster pitches 15:05 - 15:15	Ligand exchange adsorbents for selective ammonia recovery from wastewater - *Brandon Clark, Stanford University (USA)*	Investigating potential flame-retardant mechanisms of extracellular polymeric substances-based biomaterials recovered from wastewater sludge - *Tan Minh Le, University of Auckland (New Zealand)*	Innovative magnesite-assisted electrochemical system for enhanced nutrient recovery: comparative evaluation in a wastewater co-treatment scheme - *Yang Lei, Southern University of Science and Technology (China)*

	Utilization of RAS effluent and fish sludge digestate for algal cultivation and nutrient recovery - *Deniz Uçar, Norwegian University of Life Sciences (Norway)*	Enhancing CO2 valorization from biomethane and digestate streams to produce alternative proteins from green microalgae cultivation - *Georgina del Puerto-Tañà, BETA Technological Center (Spain) and Ghent University (Belgium)*	Sustainable recovery of critical raw materials and water reclamation from acidic mine waters using integrated treatment processes - *Alexandra Roa, Universitat Politècnica de Catalunya (Spain)*
	NTPlus - may just be the future for farming - *Mike Waite, Agua DB Ltd (United Kingdom)*	The role of salinity in modulating resource recovery from purple phototrophic bacteria mixed cultures - *Alba Pedrouso, Universidade de Santiago de Compostela (Spain)*	Exploring the effect of variability in sewage sludge characterisation on pyrolysis outputs - *Siqi Xu, Cranfield University (United Kingdom)*
15:15 - 15:45	Coffee break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Nitrogen recovery 2	Do not forget the water	Combined recovery approaches 2
Chairs	*Senior chair: Hao-Yi Cheng, Harbin Institute of Technology (China)* *YWP chair: Rouven Metz, Norwegian University of Life Sciences (Norway)*	*Senior chair: Goksen Capar, Ankara University (Turkey)* *YWP chair: Duc Viet Nguyen, Ghent University Global Campus (South Korea)*	*Senior chair: Sini Reuna, Helsinki Region Environmental Services HSY (Finland)* *YWP chair: Marta Di Bianca, Re-Cord (Italy)*
Session keynote 15:45 – 16:10	Translating electrochemical ammonia stripping to practice: long-term operation and early steps toward commercialization - *Kindle Williams, Stanford University (USA)*	Managed aquifer recharge as low-cost and nature-based tertiary treatment for urban wastewater - *Patricia Zamora, Aqualia (Spain)*	Cobalt accumulation in methanogenic granular sludge: a potential biorecovery strategy? - *Cristina Gagliano, Wetsus (The Netherlands)*
Oral presentations 16:10 – 16:50	Ammonia recovery with bipolar electrodialysis and vacuum stripping from anaerobic digestion reject water - *Iosif Kaniadakis, Technical University of Delft (The Netherlands)*	Aerobic granular sludge enhances membrane filtration in a full-scale industrial treatment plant - *Jan Dries, University of Antwerp (Belgium)*	Integration of nitrogen recovery and biogas enrichment in wwtps through bioelectrochemical technologies - *Federico Ferrari, ACCIONA (Spain)*
	Application of adsorbents derived from industrial side streams for ammonium and nitrate adsorption from agricultural runoff - *Tatiana Samarina, Oulu University and Kajaani University of Applied Sciences (Finland)*	Advancing to water-neutral residential areas: the water house “Heuvelstraat” in the Netherlands as case study - *Wilbert Menkveld, Nijhuis Saur Industries (The Netherlands)*	Magnesium recovery from reverse osmosis concentrate for struvite production - *Tejas Vasa, Technical University of Delft (The Netherlands)*
	Chemicals-free inorganic scaling prevention in electrochemical nutrient recovery - *Widya Prihesti Iswarani, Wetsus and Wageningen University and Research (The Netherlands)*	Biomimetic aquaporin membranes: a novel approach to steel wastewater regeneration - *Xuefei Yang, CETIM Technological Center (Spain)*	Integrated approach for recovering valuable metals and sulphuric acid from wastes generated in the mineral extraction industry - *Ana Guedes, Cetaqua (Spain)*
Poster pitches 16:50 – 17:00	Ammonium nitrate production in a bio scrubber via partial nitrification: assessing the potential of trickling filters - *Patricia Gutiérrez Lozano, University of Antwerp (Belgium)*	Winery wastewater treatment and bioproducts generation using purple phototrophic bacteria in a raceway-type reactor - *Francisco Roberto Universidad Nacional Autonoma de Mexico (Mexico)*	The potential of resource recovery at wastewater treatment plants - full-scale case studies - *Willie Driessen, Paques Global (The Netherlands)*
	Maximizing ammonium nitrogen recovery from liquid fraction of digestate using air gap membrane distillation - *Judith Canellas, Eurecat (Spain)*	Packed bed biofilm reactor for robust nitrification in recirculating aquaculture system at different salinities - *Saquib Sarosh, Indian Institute of Science (India)*	Insights on the integration of hydrothermal carbonization and chemical leaching for simultaneous carbon and phosphorus recovery from aerobic granular sludge - *Marta Di Bianca, RE-CORD and Università degli*

			Studi di Firenze (Italy) and University Grenoble Alpes, Grenoble (France)
	Integration of phosphorus precipitation and membrane distillation for ammonia capture in a single system for dual fertilizer recovery - *Bogna Śniatała, Gdańsk University of Technology (Poland)*	Water and nutrient recovery in greenhouse horticulture - *Nienke Koeman, KWR (The Netherlands)*	Combined nitrogen and phosphorus removal and recovery from sludge digestate - *Gertjan Buffinga, NSI Byosis B.V. (The Netherlands)*
17:00 – 18:30	Grote Foyer		
	Borrel (Dutch drinks & Bites)		
18:30 – 20:30	Fries museum		
	Night visit to the Fries museum Free guided tours start at 18:30 and 19:30.		
20:30 – 23:30	Café Scooters		
	Live music with Inner Cabala and Traversus		
End of day 2			

Wednesday, 21st of May			
De Harmonie Theatre			
8:30 - 9:00	Conference registration		
9:00 - 10:30	Middenzaal **Plenary session – Science** *moderated by Korneel Rabaey, Ghent University (Belgium)* Keynote speakers: • Almudena Hospido, Universidade de Santiago de Compostela (Spain) • Siegfried Vlaeminck, Antwerpen university (Belgium) • Dimitris Xevgenos, Delft University of Technology (The Netherlands)		
10:30 - 11:00	Coffee break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Phosphorus recovery 1	VFA as a platform chemical	Carbon to energy
Chairs	*Senior chair: Tommaso Lotti, Florence University (Italy)* *YWP chair: Yingfei Sun, Tsinghua University (China)*	*Senior chair: Francesco Fatone, Polytechnic University of Marche (Italy)* *YWP chair: Aina Soler, Acciona (Spain)*	*Senior chair: Pelin Kocatürk Schumacher, Norwegian University of Life Sciences (Norway)* *YWP chair: Dane Elliott, Ohio State University (USA)*
Session keynote 11:00 - 11:25	Building the world's first Ash2Phos plant in Schkopau, Germany - *Yariv Cohen, EasyMining (Sweden)*	In situ lactate-driven medium-chain fatty acids production from real urban waste with natural buffering: substrate feeding regimen and products fate - *Agata Gallipoli, Water Research Institute, National Research Council (Italy)*	IntensiCarb™: transforming anaerobic digestion with enhanced loading and resource recovery - *Domenico Santoro, USP technologies (Canada)*
Oral presentations 11:25 - 12:20	Rubiphos phosphate recovery technology for secondary nutrient sources - *Mohamed Takhim, TTBS BV (Belgium)*	Model-based design of fermentation processes for tailored odd-chain volatile fatty acid production - *Alberte Regueira, Universidade de Santiago de Compostela (Spain)*	Integrating biomethanation into extracellular polymeric substance extraction via alkaline anaerobic digestion - *Beatriz C. Diniz, Delft University of Technology (The Netherlands)*
	Pilot-Scale insights into phosphorus recovery through fluidized bed vivianite crystallization – *Wokke Wijdeveld, Wetsus (The Netherlands)*	Transforming CO2: unleashing microorganisms and the power of hydrogen for multi-carbon innovation - *Sanne de Smit, Wageningen University & Research (The Netherlands)*	Real-time monitoring of anaerobic fermentation by Raman and FTIR spectroscopy - *Miguel Mauricio Iglesias, Universidade de Santiago de Compostela (Spain)*
	Magnetic adsorption-desorption for phosphorus recovery from wastewater - *Tania Mubita, Wageningen University and Research (The Netherlands)*	Microbial conversion of cheese whey to medium-chain fatty acids: optimization of organic loading rates, fermentation cycles, and pH - *María C. Veiga, University of A Coruña (Spain)*	Designing, building and operating a scalable methane-producing bioelectrochemical system for Power-to-Methane – *Annemiek ter Heijne, Wageningen University and Research (The Netherlands)*
	Advanced P-removal and recovery from WWTP-effluent with the BioPhree® technology - *Mathijs Oosterhuis, Royal HaskoninDHV, (The Netherlands)*	Understanding lactate-based odd-chain elongation in continuous mixed-culture bioreactors – *Angel Estevez Alonso, Ghent University and CAPTURE (Belgium)*	Enhancing biogas production and digestate quality through temperature-phased anaerobic digestion – *Patricia Zamora, Aqualia (Spain)*
Poster pitches 12:20 - 12:30	Phosphate removal and recovery using continuous ion-exchange: a cost-effective solution - *Carien Spagnuolo, Clean TeQ Water (South Africa)*	Valorization of sewage sludge for the production of medium chain fatty acids - *Hugo Quintana-Álvarez, CETAQUA and Universidade de Santiago de Compostela (Spain)*	Maximizing carbon fixation by H2-enhanced mixotrophy in sugars fermentation: insights from metabolic energy-based modelling – *Arianna Catenacci, Universidade de Santiago de Compostela (Spain)*

	Optimizing regeneration strategies for sustainable phosphorus recovery using iron oxides – *Yuwei Huang, Wetsus (The Netherlands)*	Medium-chain carboxylic acid production from winery effluents with in-situ extraction - *Germán Buitrón, Universidad Nacional Autonoma de Mexico (Mexico)*	Integrating carbon sequestration and energy recovery: a multifactorial approach to optimize biochar as an electrode material for microbial electrolysis cells – *Rouven Metz, Norwegian University of Life Sciences (Norway)*
	Phosphate recovery from groundwater treatment sludge - *Tinatin Tkesheliadze, Geological Survey of Denmark and Greenland and University of Copenhagen (Denmark)*	Targeting medium-chain carboxylates in the co-fermentation of cellulose and xylan - *Marta Carballa, Universidade de Santiago de Compostela (Spain)*	The interactions and contributions among bio-anode, bio-cathode, and suspension in hybrid microbial electrolysis cells-anaerobic digestion (MEC-AD) - *Xue-Ting Wang, Harbin Institute of Technology (China)*
12:30 - 14:00	Grote Foyer Lunch break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Phosphorus recovery 2	Sustainable biopolymers from water	Most Promising New Business for Resource Recovery
Chairs	*Senior chair: Santisak Kitjanukit, Swing Corporation (Japan)* *YWP chair: Eleonora Paissoni, Isle Utilities (United Kingdom)*	*Senior chair: Germán Buitrón, Universidad Nacional Autonoma de Mexico (Mexico)* *YWP chair: Angel Estevez Alonso, Ghent University (Belgium)*	*YWP chair: Joris Bergman, Wetsus (The Netherlands)*
Session keynote 14:00 - 14:25	Advancing the next generation of phosphorus recovery through struvite recovery optimization and operational innovation - *Rudy Maltos, Metro Water Recovery (USA)*	From organic waste to membranes: enhanced PHA production and sustainable membrane fabrication - *Liang-Shin Wang, Wetsus and Eindhoven University (The Netherlands) and Yizhou Xing, Wetsus and Delft University of Technology (The Netherlands)*	From a total nineteen submissions, an international jury has selected six exciting start-up companies that focus on resource recovery from the water cycle. In this session, they will present their business to the conference audience and the jury in short presentations followed by challenging questions from the jury and the audience. Using the input of the audience and their expertise the jury will then decide on a winner that will be announced during the following coffee break. The winner will join the plenary panel discussion on Thursday, May 22nd.
Oral presentations 14:25 - 15:05	Calcium phosphate pseudomorph formation in cow manure: Selective transformation via incongruent dissolution of struvite and calcium addition - *Lilian Quispe, Wetsus and Wageningen University & Research (The Netherlands)*	Assessing the sustainability of waste-activated sludge-based PHA production - *Giorgio Mannina, Palermo University (Italy)*	
	Full-scale nutrient recovery in Germany: challenges and barriers to replication and how to overcome them - *Anne Kleyböcker, Kompetenzzentrum Wasser Berlin gGmbH (Germany)*	Microbial PHA recovery from VFA-rich food wastewater: a long-term attempt with one-stage model operation - *Xiang Zhang, Xi'an University of Architecture and Technology (China)*	The following companies are part of this session: - IonIQs: recovers lithium using electro membrane technology; - NPHarvest: recovers nitrogen and phosphorus from dirty wastewaters; - Paques Biomaterials: produces a biodegradable, biobased alternative to plastic; - Seamoretech: eliminates brine wastes and transforming them into resources; - SusPhos: produces phosphoric acid and building materials from sewage sludge ash;
	Phosphorus and ammonia recovery through bio-mineral formation – *Ana Soares, Cranfield University (United Kingdom)*	Enrichment of PHA accumulating bacteria through uncoupled feeding of carbon and nitrogen in a semi-continuous system - *Jinsong Wang, Delft University of Technology and UNLOCK (The Netherlands)*	
Poster pitches 15:05 - 15:15	Sulfide and carbonate as barriers in vivianite formation and their relevance in different matrices - *Sophie Banke,*	One step closer – examining the robustness of MMC during PHA-production from residual streams of the food industry - *Cora Laumeyer,*	

	Wetsus and Delft University of Technology (The Netherlands)	*University Kaiserslautern-Landau (Germany)*	- Weeefiner: recovers metals from wastewater with a 4D scavenger technology.
	Electrochemical pH control for K-struvite recovery from denitrified swine manure effluent - *Emma Company Masó, LEQUiA, Universitat de Girona (Spain)*	Applying feast-famine regime for PHA production in hypersaline environment - *Serena Falcioni, University of Florence (Italy) and Autonomous University of Barcelona (Spain)*	The members of the jury: • Chair: Ana Soares, Cranfield University, IWA Resource Recovery Group • Blanca Antizar, Isle Utilities • Cees Buisman, Wetsus • Melanie Haberland, SKion Water • Ronald Wielinga, Water Alliance, Water Campus Business Challenge
	Enhancing phosphorous release and recovery from waste activated sludge by citric acid treatment and cyclic extraction - *Fangyue Peng, Harbin Institute of Technology (China)*	Thermoplastic starch recovery via depolymerization and methane-arrested anaerobic digestion - *Weishen Zeng, Wageningen University & Research (The Netherlands)*	
15:15 - 15:45	Coffee break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Industrial water 1	Sustainable biopolymers from water - upscaling	High-volume carbon recovery
Chairs	*Senior chair: Mehran Andalib, Envirosim (USA)* *YWP chair: David Fernando Cubides Páez, Eurecat (Spain)*	*Senior chair: Blanca Antizar, Isle Utilities (United Kingdom)* *YWP chair: Tan Minh Le, University of Auckland (New Zealand)*	*Senior chair: Ilje Pikaar, University of Queensland (Australia)* *YWP chair: Virgile Onésime Akowanou, Centre d'Excellence d'Afrique pour l'Eau et l'Assainissement (Benin)*
Session keynote 15:45 – 16:10	Recovery of trivalent chromium in the electroplating industry with a novel hybrid batch reverse osmosis system - *Tuur van den Eijnde, Nijhuis Saur Industries (The Netherlands)*	Industrial scale polyhydroxyalkanoates (PHA) production, are we ready? - *Ruizhe Pei, Delft University of Technology and Wetsus (The Netherlands) and University of Vienna (Austria)*	Activation of sludge char and its use in micropollutant removal in wastewater treatment - *Sini Reuna, Helsinki Region Environmental Services Authority HSY (Finland)*
Oral presentations 16:10 – 16:50	Extraction of valuable metals from acid mine drainage by an electrochemically activated limestone system - *Weiquan Li, Southern University of Science and Technology (China)*	Industrial scale long-term validation of waste sludge fermentation and volatile fatty acids valorization - *Matteo Grana, Gruppo CAP and Politecnico di Milano (Italy)*	Sustainable sludge management: piloting of PUB's continuous thermal hydrolysis pyrolysis for biochar production - *Guihe Tao, PUB (Singapore)*
	Influence of pH and sulfide exposure time on polysulfide formation, internal cell-bound sulfane, and implications for design of the biological desulfurization process at haloalkaline conditions - *Annemerel Mol, Wageningen University & Research (The Netherlands)*	Exploring multiple industrial-scale concepts for PHA production from residual organic streams - *João Sousa, Paques Biomaterials (The Netherlands)*	Feeding regime and carbohydrate type determine the lactic acid-to-VFA ratio in thermophilic mixed-culture fermentations - *Laia Vulart, Universitat Autònoma de Barcelona (Spain) and Ghent University and CAPTURE (Belgium)*
	Boosting biogas production and dye removal in textile wastewater treatment with conductive material-enhanced anaerobic bioreactors - *Duc Viet Nguyen, Ghent University Global Campus (South Korea)*	From lab to pilot and back again: elucidating pH challenges in PHA production during scale-up - *Andreea-Melisa Tripon, Babeș-Bolyai University (Romania) and Delft University of Technology (The Netherlands)*	Can we build houses with toilet paper? Upcycling recovered cellulose from urban wastewater - *Aina Soler-Jofra, ACCIONA (Spain)*
Poster pitches 16:50 – 17:00	Boosting the selective odd-chain carboxylate production from cheese whey - *Ana Vázquez-Fernández, Universidade de Santiago de Compostela (Spain)*	Valorization of industrial side streams from enzyme production for PHA production in a 2-step process - *Isabell Eriksen, Aalborg University (Denmark)*	Electrochemical carbon capture with anion exchange membrane electrode assembly allows production of a tunable CO2:H2 mixture at low energy input - *Mu Lin, Wetsus and Wageningen University & Research (The Netherlands)*

	Simultaneous phenol removal and resource recovery from phenolic wastewater by electrocatalytic hydrogenation - *Zhenao Gu, Chinese Academy of Sciences (China)*	PHA2USE - Towards the commercial production of a natural alternative to plastics from organic side streams - *Bart Joosse, Waterschap Brabantse TBADelta (The Netherlands)*	Waste upgrade by autothermal torrefaction at industrial scale - *Martijn Dekker, Perpetual Next (The Netherlands)*
	Finding resource recovery pathways with OUTDOOR: guiding efficient process design exploration - *Lucas Van der Hauwaert Universidade de Santiago de Compostela (Spain)*	Long-term production of bioplastics from cyanobacteria microbiomes - *Fabiana Passos, Universitat Politècnica de Catalunya (Spain)*	Simultaneous wastewater denitrification and biogas desulfurization by membrane biofilm reactor: operational performance and metabolic mechanisms - *Wei Wang, Harbin Institute of Technology (China)*
17:00 – 18:30	Grote Foyer		
	Borrel (Dutch drinks & Bites)		
End of day 3			

Thursday, 22nd of May			
De Harmonie Theatre			
8:30 - 9:00	Conference registration		
9:00 - 10:30	Middenzaal **Plenary session – Industry** *moderated by Ana Soares, Cranfield University (United Kingdom)* Panelists: • Gustavo Possetti, Sanepar (Brazil) • Coos Wessels, Cirtec (The Netherlands) • Anne Mieke van der Werf, Invest NL (The Netherlands) • Hao-Yi Cheng, Harbin Institute of technology (China) • Olaf van der Kolk, Aquaminerals (The Netherlands) • Winner of the business pavilion award (selected during the Shark Tank session on May 21st)		
10:30 - 11:00	Coffee break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Developing new value chains 1	Salt and Brines	Phosphorus 3
Chairs	*Senior chair: Guihe Tao, PUB (Singapore)* *YWP chair: Kindle Williams, Stanford University (USA)*	*Senior chair: Leynard Natividad, Universidad Nacional Agraria La Molina (Peru)* *YWP chair: Weiquan Li , Southern University of Science and Technology (China)*	*Senior chair: Asya Drenkova-Tuhtan, Keemilise ja Bioloogilise Füüsika Instituut (Finland)* *YWP chair: Lordina Ekua Eshun, University of Manchester (United Kingdom)*
Session keynote 11:00 - 11:25	From innovation to implementation: success factors in resource recovery - *Olaf van der Kolk, AquaMinerals (The Netherlands)*	Valorisation of brines and scrap metals for coagulant production to boost circular economy in the water sector - *Feliu Sempere, Global Omnium Medioambiente (Spain)*	Phosphorus recovery as vivianite from sludge - *Outi Grönfors, Kemira Oyj (Finland)*
Oral presentations 11:25 - 12:20	KOBE Harvest project; From sewage to agriculture through sustainable regional phosphorus resource circulation system - *Santisak Kitjanukit, Swing Corporation (Japan)*	The circular transformation of calcite: From waste product to valuable raw material in the water sector and industry - *Bob Hofkamp, AquaMinerals (The Netherlands)*	Potential of phosphorus recovery in form of vivianite from wastewater treatment plants - *Lobna Amin, Aalto university (Finland) and Institut national des sciences appliquées de Toulouse (France)*
	Towards a coherent EU policy for wastewater nutrient recovery - *Ludwig Hermann, European Sustainable Phosphorus Platform (Belgium)*	Fluidic 3D evaporative crystallization for lithium extraction from ultra-high Mg brine sources - *Xi Chen, Tsinghua University (China)*	Green and high-yield recovery of phosphorus from municipal wastewater for LiFePO4 batteries - *Yijiao Chang, Tsinghua University (China)*
	Valorization of fish sludge through anaerobic fermentation: volatile fatty acid production for nutrient recovery - *Linnéa Otterheim, KTH - Royal Institute of Technology (Sweden)*	Crystallization-optimized membrane process for sustainable brine treatment and resource recovery - *Norbert Kuipers, Wageningen University and Research (The Netherlands)*	Phosphate removal in WWTP effluent by granular iron-rich sludge – *Luuk de Waal, KWR Water Research Institute (The Netherlands) and Ghent University (Belgium)*
	Turning resource recovery into real world solutions: Lessons from Dutch water authorities - *Ruud Schemen, Waterschap De Dommel (The Netherlands)*	From saline waste to purple value: Halophilic purple phototrophic bacteria for sustainable mussel wastewater treatment and resource recovery - *Sara Olyslaegers, University of Antwerp (Belgium)*	Towards circular chemical usage for sulfide control and phosphate recovery in urban water management using magnetite nanoparticles - *Ilje Pikaar, University of Queensland (Australia)*
Poster pitches 12:20 - 12:30	From waste to animal feed: microbial protein production from biogas using methanotrophs - *Patricia Mohedano*	A holistic approach to sustainable brine management - *Joshua de Jong,*	Robust magnetic vivianite recovery from digested sewage sludge: Evaluating resilience to sludge dry

	Caballero, Ghent University and CAPTURE (Belgium)	*AquaMinerals and University of Amsterdam (The Netherlands)*	matter and particle size variations - *Ha Nguyen, Wetsus and Delft University of Technology (The Netherlands)*
	Transforming harvested sewer cellulose into a glucose solution - *Bob de Boer, Hoogheemraadschap Hollands Noorderkwartier (The Netherlands)*	SmartBrine: Simulating the nanofiltration process of Seawater Reverse Osmosis brine as pre-treatment option for disinfectant production by electrochlorination, as preliminary study for brine valorisation in Fortaleza's desalination plants (Brazil) - *Esther J. de Kroon, NHL Stenden University of Applied Sciences (The Netherlands)*	A novel process for simultaneous phosphorus removal-enrichment-recovery from municipal wastewater with vivianite as recovered product - *Lu Li, Suzhou University of Science and Technology (China)*
	Resource recovery toolbox: accelerating the implementation of circular water solutions through bridging knowledge and practice - *Daniel Ddiba, Stockholm Environment Institute (Sweden)*	Strategies for the valorisation of brine streams from water reuse in the paper industry - Results and insights from pilot testing - *Tuur van den Eijnde, Nijhuis Saur Industries (The Netherlands)*	Oxalic acid-mediated production of phosphoric acid and iron coagulant from magnetically recovered vivianite of sewage sludge - *Yudong Zhao, University of Oulu (Finland)*
12:30 - 14:00	Grote Foyer		
	Lunch break / Poster exhibition / Demo floor		
	Middenzaal	Bovenzaal	Stadszaal
	Developing new value chains 2	Industrial water 2	Open IWA Resource Recovery cluster meeting
Chairs	*Senior chair: Helena Gomes, University of Nottingham (United Kingdom)* *YWP chair: Wenyu Gu, École polytechnique fédérale de Lausanne (Switzerland)*	*Senior chair: Wilbert Menkveld, Nijhuis Industries (The Netherlands)* *YWP chair: Alba Pedrouso Fuentes, Universidade de Santiago de Compostela (Spain)*	*Chairs of the IWA RR cluster:* *Ana Soares, Cranfield University (United Kingdom) & Olaf van der Kolk, Aquaminerals (The Netherlands)*
Session keynote 14:00 - 14:25	Recovery of lithium resources from shale gas wastewater in China - *Baicang Liu, Sichuan University (China)*	Industrial wastewater reuse: a comparison of laundry and paper mill case studies in Estonia - *Laura Laurelli, Spacedrip OÜ (Estonia)*	Agenda: • Introduction to the resource recovery cluster and its vision • History of the cluster and 10-year celebration of the conference • Cluster key activities and outputs • Talk by Willy Verstraete • Cluster structure, open positions and call for new members • Closing
Oral presentations 14:25 - 15:05	From sludge to solution: acidified drinking water sludge for efficient phosphorus removal in WWTPs - *Sabina Bec, LUT University (Finland)*	Acid recovery from hydrometallurgical copper industry effluents by using nanofiltration - *Julio Lopez, UPC-BarcelonaTECH (Spain)*	
	Identifying key challenges and opportunities for expanding source-separating sanitation system - *Albina Dioba, Copenhagen Business School (Denmark)*	3D evaporative crystallization for selective lithium recovery from spent lithium-ion batteries (LIBs) leachate - *Qian Xu, Tsinghua University (China)*	
	Circular economy of drinking water treatment residues – A local French approach - *Stéphanie PIEL, Saur France (France)*	Bioflocculant production from volatile fatty acid-rich and glycerol-containing wastewaters - *Berke Kisaoglan, Wetsus and Wageningen University & Research, (The Netherlands)*	
Poster pitches 15:05 - 15:15	Applying CO2 heat pump in a decentralized source-separated wastewater treatment plant for heat recovery: A model-based study - *Shuoguang Yang, Wetsus (The Netherlands)*	Valorization of wastewater from potato-chips processing industry for biomethane and algae biomass production - *Saber A. El-Shafai, Water Pollution Research, National Research Center, (Egypt)*	

	Resource recovery and water reuse in benin republic : experiences, lessons learned, and challenges - *Virgile Onésime Akowanou, Centre d'Excellence d'Afrique pour l'Eau et l'Assainissement (Benin)*	Towards circular economy in active pharmaceutical ingredient (API) manufacturing industries: forward osmosis for solvent recovery and API concentration - *Neelam Sarmah, Plaksha University (India)*	
	Putting a golden lining in sewers: Heterotrophic and autotrophic in-sewer denitrification with nitrified urine for odour control, corrosion management and enhanced centralized treatment - *Siegfried Vlaeminck, University of Antwerp and CAPTURE (Belgium)*	Water, mineral, and metal recovery from mine process waters by combining nanofiltration with precipitation and adsorption - *Viivi Vepsäläinen, Kajaani University of Applied Sciences (Finland)*	
15:15 - 15:45	Coffee break / Poster exhibition / Demo floor		
15:45 - 16:30	Middenzaal		
	Closing of the conference YWP awards IWA Resource Recovery Best Practice Award 2025		
17:00 - 18:00	Meeting point to be communicated later		
	Sport activity (running, yoga, other)		
18:30 - 22:00	Grote Kerk		
	Gala dinner with pre-registration at Jacobijnerkerkhof 95		
22:00 - 1:00	Savo Velt		
	Party without pre-registration at Sacramentsstraat 19		
End of day 4			

<table>
<tr><td colspan="4">Friday, 23rd of May</td></tr>
<tr><td rowspan="3">8:00 – 17:30</td><td colspan="3">Technical tours</td></tr>
<tr><td colspan="3">Departure from Wetsus</td></tr>
<tr><td>Technical tour 1:
Recovery of humics, calcite and iron from drinking water production
From 9:00 to 14:00
Hosted by Vitens
Takes place in Spannenburg
Optional drop-off: Zwolle railway station at 13:00 (with connection to Schiphol Airport)</td><td>Technical tour 2:
Recovery of Kaumera® and ammonia from wastewater
From 8:00 to 17:30
Hosted by Waterschap Rijn en IJssel & Nijhuis
Takes place Zutphen and Duiven
Optional drop-off: Westervoort-Arnhem railway station at 15:30 (with connection to Schiphol Airport)</td><td>Technical tour 3:
Source-separated sanitation and resource recovery
From 8:45 to 14:30
Hosted by the municipality of Leeuwarden & Desah
Takes place in Leeuwarden and Sneek</td></tr>
<tr><td rowspan="3">18:00</td><td colspan="3">Meeting point to be communicated by email</td></tr>
<tr><td colspan="3">Sailing weekend to the Wadden Islands</td></tr>
<tr><td colspan="3">A 2-day adventure to the jewels of Friesland: the Wadden Islands
Departure by bus from Leeuwarden to Harlingen, where we will board our ships to start the journey
Part of the day will be spent sailing toward the island and then explore it by bike
Both nights will be spent on board the vessels
The return is planned for Sunday, 25th of May, around 14:00 in Harlingen</td></tr>
<tr><td colspan="4">End of the conference</td></tr>
</table>

Poster display on Tuesday, 20th of May	
#1.1	Donnan dialysis for improved resource recovery from greenhouse wastewater electrodialysis concentrate: selectively separating Na+ and K+ - *Tavishi Guleria, KWR Water Research Institute (The Netherlands) and Ghent University (Belgium)*
#1.2	From microalgae to biofertilizers: resource recovery from wastewater to minimize inorganic fertilizer use - *Etiele Morais, Universitat Politècnica de Catalunya (Spain)*
#1.3	Comparison of physicochemical changes in carbon and nutrients of anaerobically digested, composted or fermented single dairy manure input – *Lourens van Langeveld, Wetsus and Wageningen University & Research (The Netherlands)*
#1.4	Development of novel adsorbent biomaterials based on structural extracellular polymeric substances (sEPS) recovered from aerobic granular sludge for the treatment of heavy metal-contaminated wastewater - *Benedetta Pagliaccia, University of Florence (Italy)*
#1.5	Energy-efficient redox modulation for enhanced biomass value: enabling sustainable biorefinery feedstocks from wastewater treatment - *Xueyang Zhou, University of Auckland (New Zealand)*
#1.6	Flocculation kinetics and mechanisms of extracellular polymeric substances in clay suspensions - *Bohan Chen, Wetsus and Wageningen University & Research, (The Netherlands)*
#1.7	Leveraging alum sludge for natural organic matter and PFAS removal in drinking water treatment - *Dane Elliott, Ohio State University and Stantec (USA)*
#1.8	Sulfur in the post-fossil age: An exploratory mass flow analysis to identify opportunities for a circular sulfur system in The Netherlands - *Annemerel Mol, Wageningen University & Research (The Netherlands)*
#1.9	Siderophore assisted recovery of germanium from industrial wastewater: an approach towards circular economy - *Aratrika Ghosh, Helmholtz zentrum Dresden Rossendorf (Germany) and Indian institute of Technology (India)*
#1.10	Ligand exchange adsorbents for selective ammonia recovery from wastewater - *Brandon Clark, Stanford University (USA)*
#1.11	Utilization of RAS effluent and fish sludge digestate for algal cultivation and nutrient recovery - *Deniz Uçar, Norwegian University of Life Sciences (Norway)*
#1.12	NTPlus - may just be the future for farming - *Mike Waite, Agua DB Ltd (United Kingdom)*
#1.13	Investigating potential flame-retardant mechanisms of extracellular polymeric substances-based biomaterials recovered from wastewater sludge - *Tan Minh Le, University of Auckland (New Zealand)*
#1.14	Enhancing CO2 valorization from biomethane and digestate streams to produce alternative proteins from green microalgae cultivation - *Georgina del Puerto-Tañà, BETA Technological Center (Spain) and Ghent University (Belgium)*
#1.15	The role of salinity in modulating resource recovery from purple phototrophic bacteria mixed cultures - *Alba Pedrouso, Universidade de Santiago de Compostela (Spain)*
#1.16	Innovative magnesite-assisted electrochemical system for enhanced nutrient recovery: comparative evaluation in a wastewater co-treatment scheme - *Yang Lei, Southern University of Science and Technology (China)*
#1.17	Sustainable recovery of critical raw materials and water reclamation from acidic mine waters using integrated treatment processes - *Alexandra Roa, Universitat Politècnica de Catalunya (Spain)*
#1.18	Exploring the effect of variability in sewage sludge characterisation on pyrolysis outputs - *Siqi Xu, Cranfield University (United Kingdom)*
#1.19	Ammonium nitrate production in a bio scrubber via partial nitrification: assessing the potential of trickling filters - *Patricia Gutiérrez Lozano, University of Antwerp (Belgium)*
#1.20	Maximizing ammonium nitrogen recovery from liquid fraction of digestate using air gap membrane distillation - *Judith Canellas, Eurecat (Spain)*
#1.21	Integration of phosphorus precipitation and membrane distillation for ammonia capture in a single system for dual fertilizer recovery - *Bogna Śniatała, Gdańsk University of Technology (Poland)*
#1.22	Winery wastewater treatment and bioproducts generation using purple phototrophic bacteria in a raceway-type reactor - *Francisco Roberto, Universidad Nacional Autonoma de Mexico (Mexico)*
#1.23	Packed bed biofilm reactor for robust nitrification in recirculating aquaculture system at different salinities - *Saquib Sarosh, Indian Institute of Science (India)*
#1.24	Water and nutrient recovery in greenhouse horticulture - *Nienke Koeman, KWR (The Netherlands)*
#1.25	The potential of resource recovery at wastewater treatment plants - full-scale case studies - *Willie Driessen, Paques Global (The Netherlands)*
#1.26	Insights on the integration of hydrothermal carbonization and chemical leaching for simultaneous carbon and phosphorus recovery from aerobic granular sludge - *Marta Di Bianca, RE-CORD and Università degli Studi di Firenze (Italy) and University Grenoble Alpes, Grenoble (France)*
#1.27	Combined nitrogen and phosphorus removal and recovery from sludge digestate - *Gertjan Buffinga, NSI Byosis B.V. (The Netherlands)*

#1.28	Hydrochar from sewage sludge as biomass waste for a circular approach in environmental applications - *Nelson Libardi, Federal University of Santa Catarina (Brazil)*
#1.29	Direct synthesis of zeolites using hazardous aluminum salt slag and rice husk ash - *Nelson Libardi, Federal University of Santa Catarina (Brazil)*
#1.30	Phosphate recovery from wastewater treatment plant effluent using an adsorption-desorption system - *Christina Teresia Zip, University Kaiserslautern-Landau (Germany)*
#1.31	Innovative magnetic strategies for sustainable phosphorus recovery - *Marcel Cwienczek, University Kaiserslautern-Landau (Germany)*
#1.32	Development of an online dynamic extinction spectroscopy sensor for real-time monitoring of precipitation and crystallization processes in phosphorus recovery - *Jan Erik Ludorf, University Kaiserslautern-Landau (Germany)*
#1.33	Upscaling ammonium recovery via pilot scale bipolar membrane electrodialysis (BPMED) - *Gladys Mutahi, Delft University of Technology (The Netherlands)*
#1.34	Anaerobic sulphide removal involves an intricate interplay between biomass, biosulphur, and dissolved compounds - *Rikke Linssen, Wageningen University & Research (The Netherlands)*
#1.35	Can lime precipitates play a role in phosphorus and nitrogen recovery from wastewater treatment plants? - *Tiago Martins, NOVA University of Lisbon (Portugal), KU Leuven, (Belgium) and Nijhuis Saur Industries (The Netherlands)*
#1.36	How to turn from traditional to circular cities for sustainable urban & industrial biowaste management: UNITEC CIRCLES project - *Patricia Zamora, Aqualia (Spain)*
#1.37	Towards simultaneous energy and nutrient recovery by anaerobic treatment of domestic wastewater: process performance and micropollutant impact - Domenica Mosca Angelucci, *CNR-IRSA (Italy)*
#1.38	Resource oriented sludge management through anaerobic co-digestion with food waste - *Benton Otieno, Vaal University of Technology (South Africa)*
#1.39	The innovative YDRO PROCESS® biotechnology - *Roman Zuravliov, Bio-Ran Ltd (United Kingdom)*
#1.40	Beyond macronutrients: Cycling micronutrients from blackwater to agriculture - *Melissa Mativo, Wetsus and Wageningen University & Research (The Netherlands)*
#1.41	Integrating bioengineering and chemical approaches for enhanced phosphorus recovery from eutrophic marine sediments - *Fengyi Zhu, KTH Royal Institute of Technology (Sweden)*
#1.42	Recovering phosphorus from phosphogypsum leachates: An effective approach to resource valorisation - *Małgorzata Szlachta, Tampere University (Finland)*
#1.43	Influence of sewage sludge composition on P recovery from sewage sludge - *Linda Mueller, University Kaiserslautern-Landau (Germany)*
#1.44	Development and evaluation of the high-rate granular sludge (HiGS) technology for enhancing resource recovery from industrial wastewater: characterization and applications of extracted extracellular polymeric substances - *Laura Andrea Acosta Figueredo, University of Antwerp (Belgium)*
#1.45	Enhanced bioavailability of phosphorous from microalgae biochar through co-pyrolysis of potassium salt - *Shahista Farheen, Indian Institute of Technology Kanpur (India)*
#1.46	Toward net zero by optimising thermal energy recovery and management in the wastewater sector - *Abubakar Kuburi, Newcastle University (United Kingdom)*
#1.47	Phosphorus removal from municipal wastewaters and surface waters using natural mineral-based sorbents - *Rūta Ozola-Davidāne, Latvia University of Life Sciences and Technologies (Latvia)*
#1.48	Unlocking phosphate recovery from cow manure: how manure age affects calcium phosphate recovery - *Feride Ece Kutlar, Wetsus and Wageningen University & Research (The Netherlands)*
#1.49	Unlocking the potential of resource recovery from wastewater: the Forthbank resource recovery factory - *Ania Escudero, Glasgow Caledonian University (United Kingdom)*
#1.50	DALIA project | Danube Region Water Lighthouse Action - *Milán Töltősi, Hungarian Innovation Agency (Hungary)*
#1.51	BEAMING: Bioeconomy Innovation - *Zoltán Palotai, Hungarian Innovation Agency (Hungary)*
Poster removal at the end of the day	

Poster display on Wednesday, 21st of May	
#2.1	Phosphate removal and recovery using continuous ion-exchange: a cost-effective solution - *Carien Spagnuolo, Clean TeQ Water (South Africa)*
#2.2	Optimizing regeneration strategies for sustainable phosphorus recovery using iron oxides - *Yuwei Huang, Wetsus (The Netherlands)*
#2.3	Phosphate recovery from groundwater treatment sludge - *Tinatin Tkesheliadze, Geological Survey of Denmark and Greenland and University of Copenhagen (Denmark)*
#2.4	Valorization of sewage sludge for the production of medium chain fatty acids - *Hugo Quintana-Álvarez, CETAQUA and Universidade de Santiago de Compostela (Spain)*
#2.5	Medium-chain carboxylic acid production from winery effluents with in-situ extraction - *Germán Buitrón, Universidad Nacional Autonoma de Mexico (Mexico)*
#2.6	Targeting medium-chain carboxylates in the co-fermentation of cellulose and xylan - *Marta Carballa, Universidade de Santiago de Compostela (Spain)*
#2.7	Maximizing carbon fixation by H2-enhanced mixotrophy in sugars fermentation: insights from metabolic energy-based modelling - *Arianna Catenacci, Universidade de Santiago de Compostela (Spain)*
#2.8	Integrating carbon sequestration and energy recovery: a multifactorial approach to optimize biochar as an electrode material for microbial electrolysis cells - *Rouven Metz, Norwegian University of Life Sciences (Norway)*
#2.9	The interactions and contributions among bio-anode, bio-cathode, and suspension in hybrid microbial electrolysis cells-anaerobic digestion (MEC-AD) - *Xue-Ting Wang, Harbin Institute of Technology (China)*
#2.10	Sulfide and carbonate as barriers in vivianite formation and their relevance in different matrices - *Sophie Banke, Wetsus and Delft University of Technology (The Netherlands)*
#2.11	Electrochemical pH control for K-struvite recovery from denitrified swine manure effluent - *Emma Company Masó, LEQUiA, Universitat de Girona (Spain)*
#2.12	Enhancing phosphorous release and recovery from waste activated sludge by citric acid treatment and cyclic extraction - *Fangyue Peng, Harbin Institute of Technology (China)*
#2.13	One step closer – examining the robustness of MMC during PHA-production from residual streams of the food industry - *Cora Laumeyer, University Kaiserslautern-Landau (Germany)*
#2.14	Applying feast-famine regime for PHA production in hypersaline environment - *Serena Falcioni, University of Florence (Italy) and Autonomous University of Barcelona (Spain)*
#2.15	Thermoplastic starch recovery via depolymerization and methane-arrested anaerobic digestion - *Weishen Zeng, Wageningen University & Research (The Netherlands)*
#2.16	Boosting the selective odd-chain carboxylate production from cheese whey - *Ana Vázquez-Fernández, Universidade de Santiago de Compostela (Spain)*
#2.17	Simultaneous phenol removal and resource recovery from phenolic wastewater by electrocatalytic hydrogenation - *Zhenao Gu, Chinese Academy of Sciences (China)*
#2.18	Finding resource recovery pathways with OUTDOOR: guiding efficient process design exploration - *Lucas Van der Hauwaert Universidade de Santiago de Compostela (Spain)*
#2.19	Valorization of industrial side streams from enzyme production for PHA production in a 2-step process - *Isabell Eriksen, Aalborg University (Denmark)*
#2.20	PHA2USE - Towards the commercial production of a natural alternative to plastics from organic side streams - *Bart Joosse, Waterschap Brabantse TBADelta (The Netherlands)*
#2.21	Long-term production of bioplastics from cyanobacteria microbiomes - *Fabiana Passos, Universitat Politècnica de Catalunya (Spain)*
#2.22	Electrochemical carbon capture with anion exchange membrane electrode assembly allows production of a tunable CO2:H2 mixture at low energy input - *Mu Lin, Wetsus and Wageningen University & Research (The Netherlands)*
#2.23	Waste upgrade by autothermal torrefaction at industrial scale - *Martijn Dekker, Perpetual Next (The Netherlands)*
#2.24	Simultaneous wastewater denitrification and biogas desulfurization by membrane biofilm reactor: operational performance and metabolic mechanisms - *Wei Wang, Harbin Institute of Technology (China)*
#2.25	Towards a universal KPI framework for Circular Economy evaluation in wastewater treatment plants - *Tiago Martins, NOVA University of Lisbon (Portugal), KU Leuven, (Belgium) and Nijhuis Saur Industries (The Netherlands)*
#2.26	Metal removal from wastewater sludge through electrochemical processes - *Tiago Martins, NOVA University of Lisbon (Portugal), KU Leuven, (Belgium) and Nijhuis Saur Industries (The Netherlands)*

#2.27	Recovery of microalgae from water by ultra-fine bubble flotation - *Shen-Yi Chen, National Kaohsiung University of Science and Technology (Taiwan)*
#2.28	Identifying and isolating emerging proteins of interest and studying their role in composition and biochemical properties of activated sludge - *Amrita Bhattacharya, Aarhus University (Denmark)*
#2.29	
#2.30	
#2.31	Electricity generation from vinasse treatment via microbial fuel cell with a biocathode for autotrophic denitrification - *Verena Mandorino Kaminagakura, University of São Paulo (Brazil) and University of Toulouse (France)*
#2.32	Influence of thermal pre-treatment and supplementation with magnetite nanoparticles on biomethane potential of municipal sewage sludge - *Matteo Tucci, CNR-IRSA (Italy)*
#2.33	Lactate-based chain elongation in mixed culture bioreactors without amino acid supplementation - *Angel Estevez Alonso, Ghent University (Belgium)*
#2.34	Development of a bioenergetic model for gas fermentation: understanding autotroph metabolisms in microbial consortia for better process management - *Léa Laguillaumie, INSA Toulouse (France)*
#2.35	Pilot-scale investigation of carbon recovery via high rate activated sludge process implementation in existing WWTPs - *Tuur van den Eijnde, Nijhuis Saur Industries (The Netherlands)*
#2.36	Enhancing PHA accumulation through microaerophilic famine - *Serena Falcioni, University of Florence (Italy) and Autonomous University of Barcelona (Spain)*
#2.37	Enhanced biomethanation of biogas in biotrickling filters utilizing anaerobic digestate as a nutrient source - *Israel Diaz, University of Valladolid and Institute of Sustainable Processes (Spain)*
#2.38	Struvite seed production in a fed-batch reactor to standardise agricultural fertiliser characteristics: An experimental approach - *Leynard Natividad, Universidad Nacional Agraria La Molina (Peru)*
#2.39	Long-term methane production in a nutrient-restricted membrane-biofilm reactor: a low-energy and nutrient input process for CO_2 utilization - *Shih-Hsuan Lin, Wetsus and Wageningen University & Research (The Netherlands)*
#2.40	A unified performance analysis of pre-hydrolysis methods for anaerobic digestion - *Elsayed Elbeshbishy, Toronto Metropolitan University (Canada)*
#2.41	Extraction of extracellular polymeric substances from aerobic granular sludge in a full-scale tropical wastewater treatment plant - *Luana Cruz, UNICAMP (Brazil)*
#2.42	Post-treatment of sewage sludge digestate using hydrothermal processes: impact on biomethane production and dewaterability - *Lu Feng, Norwegian Institute of Bioeconomy Research (Norway)*
#2.43	Investigation of a cost-effective process train for sericin recovery from silk degumming wastewater - *Goksen Capar, Ankara University (Turkey)*
#2.44	In-situ carbon capture in anaerobic digestion via the application of gas diversion - *Liwen Luo, Ghent University (Belgium)*
#2.45	Understanding cationic-induced hydrogel formation of extracellular polymeric substances and their properties at the nanoscale through MP-SPR and QCM-D techniques - *Abdo Bou Sarkis, UniLaSalle Transformations and Agro-Ressources (France)*
#2.46	Biopolymers in the circular economy: redefining waste, creating value - *Ania Escudero, Glasgow Caledonian University (United Kingdom)*
#2.47	Impact of biochemical properties on the gelation of EPS extracted from aerobic granules - *Abdo Bou Sarkis, UniLaSalle Transformations and Agro-Ressources (France)*
#2.48	Duckweed ponds as a direct route to convert effluent nutrients into protein for sustainable plant-based nutrition - *Nelson Libardi, Federal University of Santa Catarina (Brazil)*
#2.49	Application of extracellular polymeric substances as AGS enhancer - *Nelson Libardi, Federal University of Santa Catarina (Brazil)*
#2.50	A greenfield WWTP addressing water challenges in treating wastewater in the 21st century - *Maaike Hoekstra, Hoogheemraadschap Hollands Noorderkwartier (The Netherlands)*
Poster removal at the end of the day	

Poster display on Thursday, 22nd of May	
#3.1	From waste to animal feed: microbial protein production from biogas using methanotrophs - *Patricia Mohedano Caballero, Ghent University and CAPTURE (Belgium)*
#3.2	Transforming harvested sewer cellulose into a glucose solution - *Bob de Boer, Hoogheemraadschap Hollands Noorderkwartier (The Netherlands)*
#3.3	Resource recovery toolbox: accelerating the implementation of circular water solutions through bridging knowledge and practice - *Daniel Ddiba, Stockholm Environment Institute (Sweden)*
#3.4	A holistic approach to sustainable brine management - *Joshua de Jong, AquaMinerals and University of Amsterdam (The Netherlands)*
#3.5	SmartBrine: Simulating the nanofiltration process of Seawater Reverse Osmosis brine as pre-treatment option for disinfectant production by electrochlorination, as preliminary study for brine valorisation in Fortaleza's desalination plants (Brazil) - *Esther J. de Kroon, NHL Stenden University of Applied Sciences (The Netherlands)*
#3.6	Strategies for the valorisation of brine streams from water reuse in the paper industry - Results and insights from pilot testing - *Tuur van den Eijnde, Nijhuis Saur Industries (The Netherlands)*
#3.7	Robust magnetic vivianite recovery from digested sewage sludge: Evaluating resilience to sludge dry matter and particle size variations - *Ha Nguyen, Wetsus and Delft University of Technology (The Netherlands)*
#3.8	A novel process for simultaneous phosphorus removal-enrichment-recovery from municipal wastewater with vivianite as recovered product - *Lu Li, Suzhou University of Science and Technology (China)*
#3.9	Oxalic acid-mediated production of phosphoric acid and iron coagulant from magnetically recovered vivianite of sewage sludge - *Yudong Zhao, University of Oulu (Finland)*
#3.10	Applying CO2 heat pump in a decentralized source-separated wastewater treatment plant for heat recovery: A model-based study - *Shuoguang Yang, Wetsus (The Netherlands)*
#3.11	Resource recovery and water reuse in benin republic : experiences, lessons learned, and challenges - *Virgile Onésime Akowanou, Centre d'Excellence d'Afrique pour l'Eau et l'Assainissement (Benin)*
#3.12	Putting a golden lining in sewers: Heterotrophic and autotrophic in-sewer denitrification with nitrified urine for odour control, corrosion management and enhanced centralized treatment - *Siegfried Vlaeminck, University of Antwerp and CAPTURE (Belgium)*
#3.13	Valorization of wastewater from potato-chips processing industry for biomethane and algae biomass production - *Saber A. El-Shafai, Water Pollution Research, National Research Center, (Egypt)*
#3.14	Towards circular economy in active pharmaceutical ingredient (API) manufacturing industries: forward osmosis for solvent recovery and API concentration - *Neelam Sarmah, Plaksha University (India)*
#3.15	Water, mineral, and metal recovery from mine process waters by combining nanofiltration with precipitation and adsorption - *Viivi Vepsäläinen, Kajaani University of Applied Sciences (Finland)*
#3.16	Advancing water reuse: digital twin, soft sensors & renewable energy integration - *Michaela Majčinová, ASIO TECH Ltd. (Czech Republic)*
#3.17	Contributions of Bioelectrochemical systems towards the circular economy principles in the wastewater treatment context - *Mariana Cardoso Chrispim, University of Groningen (The Netherlands)*
#3.18	Two birds, one stone: capturing CO2 while managing reverse osmosis brines - *Evgeniy Matveev, Ghent University (Belgium)*
#3.19	Circular chemical use: producing acid and base with (bipolar) electrodialysis from IEX regenerate - *Nienke Koeman, KWR (The Netherlands)*
#3.20	An innovative biotechnology for sustainable treatment of saline wastewater aimed to toxic removal and brine recovery - *Maria Concetta Tomei, CNR-IRSA (Italy)*
#3.21	Start-up and optimization of mono-digestion with land-based recirculating aquaculture system sludge - *Abdullah Bugra Senol, Norwegian University of Life Sciences (Norway)*
#3.22	Optimising a novel electrochemical approach for phosphorous recovery from wastewater - *Simona Pruiti, Wetsus and Wageningen University & Research (The Netherlands)*
#3.23	Climate-friendly nitrogen management: Partial nitritation/anammox in a rotating biological contactor for urine treatment enabling phosphorus recovery and enhanced centralized treatment - *Iris Jiaqi De Corte, University of Antwerp and CAPTURE (Belgium)*
#3.24	In-situ caproic acid recovery during open-culture fermentation for enhanced production - *Seyed Behzad Rouhipour, Poznan University of Technology (Poland)*
#3.25	Using struvite as a fire-extinguishing agent: Feasibility and key influencing factors - *Xin Ye, Institute of Urban Environment (China)*

#3.26	Optimization of the chemical materials in coagulation-flocculation process by reuse of water treatment sludge - *Mohamed Ibrahim Kolkila, Abu-qir fertilizers and chemical industries (Egypt)*
#3.27	Predicting spatial tendency of groundwater head using a machine learning algorithm in the Tangshan plain, China - *Nebiyou Kassahun, China Institute of Water Resources and Hydropower (China)*
#3.28	How can we recover “top of the value pyramid” resources such as proteins, polymers and specific chemicals from wastewater? - *Abdulkadir Ahmed, Al Emad Engineering (UAE)*
#3.29	Recovery of sodium sulphate and water from precipitated silica wastewater: pre-industrial scale results & replicability studies at lab-scale - *Judit Cañellas, EURECAT (Spain)*
#3.30	Unlocking resource potential in brewery effluents: screening microalgae for essential nutrient recovery and biomass production - *Etiele Morais, Universitat Politècnica de Catalunya (Spain)*
#3.31	End-to-End Integration of Data Preprocessing, Modeling, and Predictive Control for Full-scale Industrial Wastewater Treatment - *Min Yang, Harbin Institute of Technology (China)*
#3.32	Engineering microbiological recovery of critical metals from industrial wastewaters - *Lordina Eshun, University of Manchester (United Kingdom)*
#3.33	Brine valorization using bipolar membrane electrodialysis for acid and base production - *Daniel E. Kelly Coto, Wetsus (The Netherlands) and Ghent University (Belgium)*
#3.34	Electrochemical NH_3 recovery with electrical current pulse modulation and vacuum stripping - *Iosif Kaniadakis, Technical University of Delft (The Netherlands)*
#3.35	A pilot scale study on Chemical Enhanced Primary Treatment couple Sulfate reduction, mixed Sulfide – driven Autotrophic Denitrification, Nitrification, and Anammox Integrated technology for municipal sewage treatment - *Yunke Zhu, Hong Kong University of Science and Technology (Hong Kong)*
#3.36	Removal of manganese and its potential recovery as manganese oxides in biofiltration systems - *Elisavet Malea, Wetsus and Wageningen University & Research (The Netherlands)*
#3.37	Toward Sustainable Wastewater Management: Integrating Biorefineries for Bio-Waste Valorisation and Certified Circular Economy Practices - *Francesco Fatone, UNIVPM (Italy)*
#3.38	How silicone membrane extraction improves bioplastic production from cheese whey - *Fabiano Asunis, University of Cagliari (Italy)*
#3.39	Investigation on the carbon-sulfur-nitrogen conversion in the SANIA process - *Chukuan Jiang, Hong Kong university of science and technology (Hong Kong)*
#3.40	Biological coagulant recovery: a novel method to increase resilience and sustainability in drinking water and wastewater treatment processes - *Rachael Giles, Cranfield University (United Kingdom)*
#3.41	Lithium Occurrence in Brazilian Aquifers: A Path to Strategic Resource Exploitation - *Inalmar Barbosa Segundo, University of São Paulo (Brazil)*
#3.42	Advancing Resource Recovery in Water Utilities: Introducing the Resource Maturity Index - *Julian Muñoz Sierra, KWR Water Research Institute and Delft University of Technology (The Netherlands)*
#3.43	Potential for lithium recovery from produced water in offshore oil fields: a case study of Brazil - *Bruno Fukasawa, University of São Paulo (Brazil)*
#3.44	Paving the way for decarbonisation of China's wastewater treatment systems - *Hao Xu, University of Exeter (United Kingdom)*
#3.45	Flexible utilization of solar energy for wastewater treatment and hydrogen production by decoupled microbial photoelectrochemical cell - *Guifeng Li, Harbin Institute of Technology (China)*
#3.46	BOOST-IN: Enhancing Circular Economy Adoption in Water Management through Innovative Solutions and Stakeholder Engagement - *Rafael Casielles Restoy, BIOAZUL (Spain)*
#3.47	The pre-treatments renaissance: from burden to boon in resource recovery mission - *Camilla Maria, CNR-IRSA (Italy)*
#3.48	The aftermath of the disruption of the FeCl3 supply chain: Examining Continuity of Essential Resources in Wastewater Treatment - *Joshua de Jong, AquaMinerals and University of Amsterdam (The Netherlands)*
#3.49	Spatial distribution of microbial interactions as the key driver of enhanced energy generation in tubular microbial fuel cells treating diverse organic compounds - *Vitor Cano, Columbia University (USA) and University of São Paulo (Brazil)*
#3.50	Effect of emerging contaminants on Microalgal-Bacterial Aerobic Granular Sludge (MB-AGS) technology for water resource recovery: Performance, microbial communities, biotransformation and resistance genes - *Moein Besharati Fard, CAPTURE and Ghent University (Belgium) and Ghent University Global Campus (South Korea)*
#3.51	Rainwater regulatory panel. Agricultural water management with a family farm in the NASA indigenous community in Colombia - *Juan Manuel Figueroa Calero, fundacion ciudades del dorado (Colombia)*
Poster removal at the end of the day	

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