

Date / Time	12/02/2020 (Wednesday)	
13:00-14:00	Conference Registration	
14:00-15:00	<p><b>Opening Ceremony (Room BS 0.03)</b></p> <p>Welcome by Dr. Michel Caluwé in name of the organising committee</p> <p>Welcome by the Dean Faculty of Science Prof. Jean-Marc Schlenker University of Luxembourg (Luxembourg)</p> <p>Dr. Luc Zwank, Administration de la gestion de l'eau (Luxembourg)  "Water Management in the 20ies - Addressing micropollutants, circular economy and climate change"</p>	
15:00-15:30	<p><b>Keynote speakers (Room BS 0.03)</b></p> <p>Prof. Joachim Hansen, University of Luxembourg (Luxembourg) and  Prof. Heidrun Steinmetz, Technical University of Kaiserslautern (Germany)  "Wider business opportunities for carbon-based materials from sewage"</p>	
15:30-16:30	Poster session + Coffee break	
Room N°	BS 0.03	BS 0.15
Session	<p><b>1. Modelling &amp; Simulation</b>  Chairperson: Prof. Eveline Volcke  Room responsible: Weiqiang Zhu</p>	<p><b>2. Water management and sustainability</b>  Chairperson: Dr. Marjolein Vanoppen  Room responsible: Yankai Xie</p>
16:30-17:00	<p><b>Keynote speaker: Prof. Eveline Volcke</b>  <b>Ghent University (Belgium)</b>  "Modelling wastewater treatment processes:  what's in it – and what is not"</p>	<p><b>Keynote speaker: Marco Beros</b>  <b>European Investment Bank - EIB (Luxembourg)</b>  "Challenges of EU's water sector from the financier's perspective"</p>
17:00-17:20	<p>(Y023) Advanced 3D Modelling for Virtual Piloting: Accelerating the Development of the Next Generation Water and Wastewater Treatment Technologies  <b>Wim Audenaert (AM-TEAM)</b></p>	<p>(Y038) How can we quantify the hydrological response in a city?  <b>Charlotte Wirion (VUB)</b></p>
17:20-17:40	<p>(Y024) Looking through the walls of drinking water reservoirs using CFD modelling: a key to standardise design and operation  <b>Daria Sudrawska (AM-TEAM)</b></p>	<p>(Y039) Illicit drug loads and their diurnal variation in wastewater  <b>Christian Koehler (LIST)</b></p>
17:40-18:00	<p>(Y027) A machine learning approach to model electro dialysis fouling  <b>Bram De Jaegher (UGent/VITO)</b></p>	<p>(Y060) Detection and assessment of emerging compounds in surface water used for drinking water production  <b>Tim Van Winckel (UAntwerp)</b></p>
18:00-18:20	<p>(Y090) Model-based evaluation of an integrated high-rate activated sludge and mainstream anammox system  <b>Jia Mingsheng (UGent)</b></p>	<p>(Y084) Drinking Waste? An exploration of public support for wastewater reuse in flanders  <b>Robbe Geerts (UAntwerp)</b></p>
19:00	Opening reception: wine and cheese tasting (location "Campus de Kirchberg")	

Date / Time	13/02/2020 (Thursday)	
08:30-09:00	Conference Registration	
Room N°	BS 0.03	BS 0.15
Session	<b>3. Advanced wastewater treatment processes</b> Chairperson: Michiel Van Tendeloo Room responsible: Dorien Gaublomme	<b>4. Biological wastewater treatment</b> Chairperson: Dr. Silvia Venditti Room responsible: Dave Manhaeghe
09:00-09:30	<b>Keynote speaker: Ulrich Bäuerle</b> <b>APATEQ (Luxembourg)</b> "Innovative technologies to deliver environmental benefits from challenging waters"	<b>Keynote speaker: Prof. Paul Wilmes</b> <b>University of Luxembourg (Luxembourg)</b> "Biological Wastewater Treatment Processes: From Systems Ecology to Systems Control"
09:30-09:50	(Y021) Degradation of sulfamethoxazole by ferrous iron activation of peroxymonosulfate: dosing strategy <b>Hannah Milh (KULeuven)</b>	(Y001) How significant is heterogeneity and variability of diffusion in aerobic granular sludge? <b>Lenno van den Berg (TUDelft)</b>
09:50-10:10	(Y072) A generic steady state model for full-scale Reverse Osmosis <b>Dorien Gaublomme (UGent)</b>	(Y004) Influence of a slow anaerobic feeding on the formation and performance of granular sludge treating industrial dairy wastewater <b>Thomas Dobbeleers (UAntwerp)</b>
10:10-10:30	(Y079) Photocatalytic membranes for water purification <b>Shuyana Heredia (University of Twente)</b>	(Y009) Batch feeding and granulation alter the fate of dissolved sewer methane <b>Janis Baeten (UGent)</b>
10:30-10:50	(Y085) Developing the combined UVC/H2O2/VacuumUV advanced oxidation process <b>Nimmy Kovoore George (WETSUS)</b>	(Y036) Evolution of full scale aerobic granular sludge upon addition of a particulate-rich influent stream <b>Sara Toja Ortega (TUDelft)</b>
10:50-11:10	(Y088) Sustainable water desalination based on smart and efficient renewable energy technology - SWEET H2O <b>Rishav Phukan (UGent)</b>	(Y040) Impact of glucose on the anaerobic conversion of gelatine <b>Zhe Deng (TUDelft)</b>
11:10-11:30	Coffee break	
11:30-12:30	<b>Industry talks (Room BS 0.03):</b> <b>Endress+Hauser, Veolia, NOAH and BESIX</b> Chairperson: Dr. Michel Caluwé Room responsible: Dave Manhaeghe and Pieter-Jan De Buyck	
12:30-13:30	Lunch	
13:30-15:30	<b>Professional development workshops:</b> <b>Workshop 1: Climate debate (Marjolein Vanoppen &amp; Arnout D'Haese)</b> <b>Workshop 2: Join for water (Dirk Glas)</b> <b>Workshop 3: Data analysis (Stijn Van Hoey)</b> <b>Workshop 4: Science art (Pieter Torrez)</b> <b>Workshop 5: Startup with (Tom Vandekerckhove &amp; Wim Audenaert)</b>	
15:30-15:50	Coffee break	
Room N°	BS 0.03	BS 0.15
Session	<b>3. Advanced wastewater treatment processes</b> Chairperson: Veerle Van Malderen Room responsible: Pieter-Jan De Buyck	<b>4. Biological wastewater treatment</b> Chairperson: Dr. Tim Van Winckel Room responsible: Pieter Van Gaelen
15:50-16:10	(Y002) Ozonation of the trace organic compounds in Chinese and Belgian municipal and industrial wastewaters: ozone and hydroxyl radical exposure <b>Ze Liu (UGent)</b>	(Y011) Improved protein hydrolysis monitoring tool elucidates the first step in biological wastewater treatment <b>Pieter Van Gaelen (KULeuven)</b>
16:10-16:30	(Y047) Transport of Organic Micropollutants in Ion-Exchange Membranes during Reverse Electrodialysis Using Real Feed Waters <b>Lingshan Ma (UGent)</b>	(Y015) Ozonisation of reverse osmosis concentrate originating from tank truck cleaning on pilot scale: effect on biodegradability <b>Sven Poelmans (UAntwerp)</b>
16:30-16:50	(Y052) Interfacial Fenton Oxidation over Oxalate-relaxed Gel Layer: A Novel Strategy for Cleaning Ceramic Nanofiltration Membranes <b>Bin Lin (TUDelft)</b>	(Y051) Optimal dosage of flux enhancer for sludge filterability improvement in anaerobic membrane bioreactors (AnMBRs) <b>Magela Odriozola (TUDelft)</b>
16:50-17:10	(Y061) Arsenite removal from water by integrating biological oxidation of arsenite with iron electrocoagulation in a continuous flow system <b>Mrinal Roy (TUDelft)</b>	(Y073) Microbial community dynamics during enhanced phenol conversion rate in a thermophilic saline anaerobic membrane bioreactor <b>Victor Servano Garcia Rea (TUDelft)</b>
17:30-19:30	Evening Event 1: City walk with guided tour	
20:00 - ...	Evening Event 2: Conference Dinner	

Date / Time	14/02/2020 (Friday)	
08:30-09:00	Conference Registration	
Room N°	BS 0.03	BS 0.15
Session	<b>5. Emerging pollutants</b> Chairperson: Dr. Christa McArdell Room responsible: Hana Brunhoferova	<b>6. Resource recovery</b> Chairperson: Dr. Tania Fernandes Room responsible: Marie Louise Uwizeye
09:00-09:30	<b>Keynote speaker: Dr. Christa McArdell</b> <b>Eawag (Switzerland)</b> "Reducing micropollutants in wastewater: the Swiss approach"	<b>Keynote speaker: Dr. Tania Fernandes</b> <b>NIOO-KNAW (Netherlands)</b> "Microalgae-bacteria communities for resource recovery"
09:30-09:50	(Y017) Vital Urban Filter: A novel solution to remove pharmaceuticals from urban wastewater for healthy reuse <b>Elackiya Sithamparanathan (WUR)</b>	(Y019) Photohydrogenotrophic production of purple bacteria: A new microbial protein opportunity from recovered and renewable resources <b>Janne Spanoghe (UAntwerp)</b>
09:50-10:10	(Y033) Radical contribution on efficient removal of carbamazepine by advanced reduction processes <b>Xingyue Yu (KULeuven)</b>	(Y037) Open culture methanol chain elongation dominated by Clostridium and Eubacterium for short branch chain fatty acid production <b>Shengle Huang (UGent)</b>
10:10-10:30	(Y045) Removal of micropollutants in medium-sized WWTP by vertical flow constructed wetlands (VFCWs): performance under laboratory and real conditions <b>Hana Brunhoferova (UL)</b>	(Y048) Ammonia recovery by vacuum membrane stripping from residual water for the generation of electricity in a solid oxide fuel cell <b>Niels van Linden (TU Delft)</b>
10:30-10:50	(Y057) Influence of dissolved organic carbon properties on xenobiotic degradation in activated sludge systems <b>Anne Christen (UL)</b>	(Y056) Photoassimilation of mixed volatile fatty acids in purple non sulfur bacteria <b>Paloma Cabecas (UMons)</b>
10:50-11:10	(Y076) Roofing materials as source of runoff pollution: pilot scale experiments for the assessment of material contribution <b>Pieter-Jan De Buyck (UGent)</b>	(Y058) Lab-scale selection of lipid accumulating bacterium Microthrix parvicella from wastewater activated sludge for biodiesel production <b>Marie Louise Uwizeye (UL)</b>
11:10-11:30	Coffee break	
11:30-12:30	Poster session	
12:30-13:30	Lunch	
Session	<b>7. Industrial wastewater</b> Chairperson: Prof. Jan Dries Room responsible: Rishav Phukan	<b>8. Nutrient removal</b> Chairperson: Prof. Jan Vymazal Room responsible: Michiel Van Tendeloo
13:30-14:00	<b>Keynote speaker: Prof. Jan Dries</b> <b>University of Antwerp (Belgium)</b> "Confessions of a science hacker - bringing innovative bioprocesses to industrial application"	<b>Keynote speaker: Prof. Jan Vymazal</b> <b>Czech University of Life Science (Czech Republic)</b> "Constructed wetlands for wastewater treatment"
14:00-14:20	(Y025) Talk2clean: application of probiotics to control biofilm formation in industrial water circuits – a innovative application <b>Hetty KleinJan (CEBEDEAU)</b>	(Y014) PAOs Got Talent! Microbial management of the EBPR process in granular sludge systems <b>Lennert Dockx (UAntwerp)</b>
14:20-14:40	(Y053) Bioconversion of organic fertilizers to liquid products: Optimizing ammonification as bottleneck to nitrate production <b>Yankai Xie (UAntwerp)</b>	(Y064) Towards energy-positive sewage treatment: Carbon-lean nitrogen removal with the Mainstream Anammox System (MAS) <b>Michiel Van Tendeloo (UAntwerp)</b>
14:40-15:00	(Y075) Technological approaches for recovery of petrochemical condensates <b>Irina Veleva (UGent)</b>	(Y067) Microalgae for wastewater treatment: measuring and modelling the autotrophic, heterotrophic and mixotrophic growth of Chlorella vulgaris <b>Dave Manhaeghe (UGent)</b>
15:00-15:20	(Y077) The IMRPOVED project – Lessons learned from the treatment of industrial water <b>Ivaylo Hitsov (UGent)</b>	(Y074) Less is more for long-term preservation of partial nitrification/anammox sludge <b>Weiqliang Zhu (UAntwerp)</b>
15:30-16:00	<b>Goodbye lecture (Room BS 0.03)</b> <b>Jacob Bossaer, Bosaq (Belgium)</b> "Antarctica to Space"	
16:00-16:30	<b>Closing session + Awards (Room BS 0.03)</b>	