



WETPOL 2023

Bruges Meeting & Convention Centre, Belgium

10th International Symposium on Wetland Pollutant Dynamics and Control

10 – 14 September 2023, Bruges, Belgium

FINAL PROGRAM



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Sunday 10 Sept	17:00 - 19:00			BMCC Entrance Hall Registration	CATERING ROOM (4th FLOOR) Welcome reception
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Monday 11 Sept	AUDITORIUM A (1st FLOOR)	AUDITORIUM B (1st FLOOR)	ROOMS 1+2 (3rd FLOOR)	ROOMS 4+5 (3rd FLOOR)	CATERING ROOM (4th FLOOR)
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08:00 - 09:00					Registration & Welcome Coffee
09:00 - 09:10	Plenary session I (Chairs: Diederik Rousseau & Gijs Du Laing) CONFERENCE OPENING AND WELCOME WETPOL OC				
09:10 - 09:20	WELCOME TO BRUGES Dirk De fauw (Mayor of Bruges)				
09:20 - 09:40	WATER RELATED CHALLENGES IN FLANDERS Tom De Vits (Cabinet of the Flemish Minister of Environment)				
09:40 - 10:05	KEYNOTE: WETLANDS: A PROMISING SOLUTION IN A CHANGING FRAMEWORK – PERSPECTIVES FROM AQUAFIN, THE REGIONAL WASTEWATER TREATMENT COMPANY OF FLANDERS (BELGIUM) Birgit De Bock, Aquafin, Belgium				
10:05 - 10:30	KEYNOTE: INTERREG AQUATUUR PROJECT: ENHANCING CLIMATE RESILIENCE BY INCREASING FRESHWATER AVAILABILITY WITH NATURE-BASED GREEN-BLUE SOLUTIONS IN THE SCHELDT MOUTH REGION Simon De Paepe, Vlakwa, Belgium				
10:30 - 11:00					Coffee & posters
11:00 - 11:40	Plenary session II (Chair: Emma McAteer) KEYNOTE: THE IMPACT OF HIGH RELATIVE SEA LEVEL RISE ON NUTRIENT BIOGEOCHEMISTRY OF COASTAL WETLANDS: "A HARBINGER OF CHANGE FOR THE WORLD'S STABLE COASTLINES" John R. White, USA				
11:40 - 12:20	KEYNOTE: USING WETLANDS TO MITIGATE NON-POINT SOURCE POLLUTION Karin Tonderski, Sweden				
12:20 - 13:50					Lunch & posters
13:50 - 14:10	Interreg project Aquatuur start meeting  Aquatuur	HCH and PFAS removal (Chair: Pascal Molle) WETLAND+® TECHNOLOGY FOR TREATMENT OF HCH-CONTAMINATED WATER Miroslav Cernik, Czech Republic ASSESSMENT OF INTENSIFIED CONSTRUCTED WETLAND FOR REMOVING PERSISTENT, MOBILE AND TOXIC (PMT) COMPOUNDS FROM GROUNDWATER AND WASTEWATER Alicia Cano, Spain BEHAVIOR AND IMPACT OF PER- AND POLYFLUOROALKYL SUBSTANCES WITHIN TREATMENT WETLAND MESOCOSMS Isaac Timoffee-Maberly, Canada INSIGHT INTO THE CONSTRUCTED WETLAND-MICROBIAL FUEL CELL TECHNOLOGY: ELECTRODE MATERIALS, PLANT CULTIVATION, AND PFAS EXPOSURE Yaqian Zhao, China	Microplastics I (Chair: Carmen Hernandez-Crespo) IMPACT OF MICROPLASTICS IN URBAN CONSTRUCTED WETLANDS Tanveer Adyel, Australia OBSERVATIONS ON MICROPLASTIC FROM WASTEWATER IN TREATMENT WETLANDS OF THE SURFACE FLOW TYPE – REMOVAL VARIABILITY AND ATMOSPHERIC DEPOSITION AS POTENTIAL EXPLANATION Lina Büngener, Finland LAB-SCALE STUDY ON THE FATE AND REMOVAL OF MICROPLASTICS IN HORIZONTAL SUBSURFACE FLOW CONSTRUCTED WETLANDS Qintong Wang, Belgium	CSO treatment (Chair: Margit Köiv-Vainik) NEW GERMAN CODE OF PRACTICE ON SPECIAL APPLICATIONS OF TREATMENT WETLANDS FOR CSO AND STORMWATER Katharina Tondera, Germany FIRST MONITORING RESULTS OF AERATED WETLAND FOR COMBINED SEWER OVERFLOW UPSTREAM THE WWTP OF MERONE (IT) Riccardo Bresciani, Italy FORCED AERATION IN A VERTICAL FLOW WETLAND TO TREAT COMBINED SEWER OVERFLOW Daniella Portela, France LIMESTONE FOR RE-CARBONATION OF TREATMENT WETLANDS FOR COMBINED SEWER OVERFLOWS Julia Storath, Germany	
14:10 - 14:30					
14:30 - 14:50					
14:50 - 15:10					
15:10 - 15:40					

Monday 11 Sept	AUDITORIUM A (1st FLOOR)	AUDITORIUM B (1st FLOOR)	ROOMS 1+2 (3rd FLOOR)	ROOMS 4+5 (3rd FLOOR)	CATERING ROOM (4th FLOOR)
15:40 - 16:00	<p>Interreg project Aquatuur start meeting</p>   <p>Gefinancierd door de Europese Unie</p> <hr/> <p>Aquatuur</p>	<p>Vertical flow wetlands I (Chair: Hana Brunhoferova) RED CERAMIC, AUTOCLAVED AERATED CONCRETE AND CHEMICALLY ACTIVATED AERATED CONCRETE AS NOVEL MATERIALS FOR VERTICAL SUB-SUPERFICIAL CONSTRUCTED WETLANDS TREATING SYNTHETIC EFFLUENT Karina De Carvalho, Brazil</p>	<p>Microplastics II (Chair: Qintong Wang) FATE OF MICROPLASTICS IN A FREE-WATER SURFACE CONSTRUCTED WETLAND - REMOVAL, MICROBIAL COLONIZATION AND ANTIMICROBIAL RESISTANCE (AMR) Jannis Wenk, UK</p>	<p>Microbial ecology (Chair: Otto Stein) GREY WATER AN ISSUE IN URBAN SLUMS – MICROBIAL COMMUNITY Uwe Kappelmeyer, Germany</p>	<p>Posters & drinks</p>
16:00 - 16:20		<p>INTEGRATING CIRCULAR ECONOMY AND BIODIVERSITY IN UPGRADING CONSTRUCTED WETLANDS (LIFE RENATURWAT) Carmen Hernandez Crespo & Núria Oliver, Spain</p>	<p>MICROPLASTICS OCCURRENCE, CHARACTERIZATION, AND REMOVAL IN FULL-SCALE COMBINED SEWER OVERFLOW-CONSTRUCTED WETLAND SYSTEMS UPSTREAM CENTRALIZED WASTEWATER TREATMENT PLANTS Chiara Sarti, Italy</p>	<p>NOVEL LIGHTWEIGHT SUBSTRATE IN CONSTRUCTED WETLAND FOR DOMESTIC WASTEWATER TREATMENT: PREPARATION, PERFORMANCE AND MICROORGANISM COMMUNITY Ting Wei, China</p>	
16:20 - 16:40		<p>PERFORMANCE EVALUATION OF OPERATIONAL CHANGES IN MODIFIED VERTICAL FLOW TREATMENT WETLANDS WITH ORNAMENTAL PLANTS UNDER ARID CONDITIONS Ismael Vera-Puerto, Chile</p>	<p>DO MICROPLASTICS IMPACT THE TREATMENT EFFICIENCY OF POLLUTANTS IN CONSTRUCTED WETLANDS? Saurabh Dwivedi, India</p>	<p>MICROBIAL COMMUNITY DYNAMICS IN A COLD CLIMATE TREATMENT WETLAND Stephanie Ayotte, USA</p>	
16:40 - 17:00		<p>DECENTRALISED WASTEWATER TREATMENT AND WATER REUSE FOR REGIONS WITH SEASONAL DROUGHT STRESS Jan Schütz, Germany</p>			
17:00 - 18:30					

Tuesday 12 Sept	ROOMS 1+2 (3rd FLOOR)	ROOMS 4+5 (3rd FLOOR)	ROOM 6 (3rd FLOOR)	ROOM 12 (3rd FLOOR)	CATERING ROOM (4th FLOOR)
08:30 - 09:00					Registration & Coffee
	Antibiotics removal & antimicrobial resistance (Chair: Pedro Carvalho)	Intensification (Chair: Dion van Oirschot)	Non-point source pollution I (Chair: Marco Hartl)	Resource recovery & pathogen removal (Chair: Gabriela Dotro)	
09:00 - 09:20	THE UK'S EFFORTS TO UNDERSTAND AND TACKLE ANTIMICROBIAL RESISTANCE (AMR): THE ROLE OF NATURE-BASED SOLUTIONS Tao Lyu, UK	NITRIFICATION AND DENITRIFICATION IN TAYA, A FILL AND DRAIN CONSTRUCTED WETLAND Keren Aizenberg, Israel	FAVOURABILITY MAPS FOR PLANNING NATURE-BASED SOLUTIONS FOR AGRICULTURAL WATER MANAGEMENT IN EUROPE Fabio Masi, Italy	ASSESSING THE EFFECTIVENESS OF CONSTRUCTED WETLAND-DERIVED SLUDGE AS BIOFERTILIZER Ana Cano, Spain	
09:20 - 09:40	ANTIBIOTICS AND MICROBIAL COMMUNITY DYNAMICS IN ESTUARINE ECOSYSTEMS AND WETLANDS (SALTMARSHES) ROLE IN POLLUTANTS REMOVAL Marisa Almeida, Portugal	RHIZOSPHERE AIR – A SINGLE STAGE “FRENCH” TREATMENT WETLANDS FOR NITROGEN REMOVAL. 2-YEARS MONITORING OF INDUSTRIAL-SCALE PILOTS Alain Petitjean, France	USING SMALL RIPARIAN WETLANDS FOR SURFACE WATER PURIFICATION: EFFECT ON WATER NUTRIENT CONCENTRATION AND BIOFILM FUNCTION Anne-Kirstine Dybdahl, Denmark	APPLICATION OF CONSTRUCTED WETLAND-DERIVED COMPOST: ASSESSMENT OF THE CIRCULARITY POTENTIAL Francesco Chioggia, Italy	
09:40 - 10:00	REMOVAL OF ENROFLOXACIN USING EICHORNIA CRASSIPES IN WETLANDS AT MICROCOSM SCALE Maria Maine, Argentina	PRACTICAL EXAMPLES OF AERATED TREATMENT WETLANDS IN THE CZECH REPUBLIC Vit Rous, Czech Republic	ADDRESSING NUTRIENT REMOVAL FROM AGRICULTURAL RUNOFF AND SUBSURFACE DRAINAGE USING TWO PILOT NATURE-BASED SOLUTIONS, AUSTRIA Eriona Canga, Austria	EFFECT OF GRANULOMETRY AND LOADING RATE IN VERTICAL SAND BED FILTER FOR PATHOGEN REMOVAL OF MUNICIPAL WASTEWATER Mayang Perdana, Czech Republic	
10:00 - 10:20	A REVIEW ON ANTIBIOTICS REMOVAL: COMBINING GREY PROCESSES WITH GREEN PROCESS/CONSTRUCTED WETLAND Peiyang Kang, China	INTEXT PLATFORM: INNOVATIVE HYBRID INTENSIVE – EXTENSIVE TECHNOLOGIES FOR WASTEWATER TREATMENT IN SMALL COMMUNITIES. Rubén Hervas, Spain	ARE RIPARIAN BUFFER STRIPS EFFECTIVE FOR NUTRIENT RETENTION UNDER COLD FROZEN CONDITIONS? Mathieu Kumwimba, China	NUTRIENTS RECOVERY AND PATHOGEN REMOVAL FOR WASTEWATER REUSE COMBINING MICROALGAE AND CONSTRUCTED WETLAND SYSTEMS Enrique Lara, Spain	
10:20 - 10:40		HYBRID CONSTRUCTED WETLANDS FOR THE TREATMENT OF FLORICULTURE DRAINAGE WATER Flor Louage, Belgium	IMPROVING THE RISK ASSESSMENT OF PHOSPHORUS LOSS FROM REWETTED RIPARIAN WETLANDS IN DENMARK Dominik Zak, Denmark	ELECTROCHEMICAL DISINFECTION SYSTEMS FOR WATER RECLAMATION FROM CONSTRUCTED WETLAND EFFLUENTS Suanny Mosquera-Romero, Ecuador	
10:40 - 11:10					Coffee & Posters
	Antibiotics & pharmaceuticals removal (Chair: Huma Ilyas)	Biochar (Chair: Asheesh Yadav)	Non-point source pollution II (Chair: Birgit De Bock)	Other wetland applications (Chair: Fabio Masi)	
11:10 - 11:30	NATURE-BASED SOLUTIONS TO REDUCE ANTIBIOTICS AND ANTIMICROBIAL RESISTANCE IN AQUATIC ECOSYSTEMS Victor Matamoros, Spain	BIOCHAR FROM RECOVERED CELLULOSE AS NEW SUBSTRATE FOR MICROPOLLUTANT REMOVAL IN A CIRCULAR ECONOMY PERSPECTIVE Joachim Hansen, Luxembourg	VERTECO® RAFT – LAB-SCALE AND PROTOTYPE TESTING AND DEVELOPMENT OF A FLOATING WETLAND SYSTEM TO MITIGATE EUTROPHICATION IN THE BALTIC SEA Marco Hartl, Austria	OPTIMIZING SEWAGE SLUDGE DEWATERING USING CONSTRUCTED WETLANDS: A LARGE EXPERIMENTAL STUDY IN GREECE Alexandros Stefanakis, Greece	
11:30 - 11:50	INNOVATIVE HYBRID INTENSIVE – EXTENSIVE RESOURCE RECOVERY FROM WASTEWATER IN SMALL COMMUNITIES Cristina Ávila, Spain	ASSESSMENT OF AGING BIOCHAR PROPERTIES IN CONSTRUCTED WETLANDS Hafiz Khan, Belgium	PILOT SCALE OPTIMISATION OF FLOATING TREATMENT WETLAND DESIGN FOR CLEANING OF THE WATER CHANNELS OF HO CHI MINH CITY Piet Lens, Ireland	ASSESSMENT OF BASIC PROCESSES AND BACTERIAL COMMUNITY IN REED BED SYSTEMS FOR BEACH WRACK TREATMENT Alicja Kupczyk, Poland	
11:50 - 12:10	TREATMENT WETLANDS FOR CONTROLLING WASTEWATER-BORN ANTIBIOTIC EMISSIONS Pedro Carvalho, Denmark	IMMOBILIZATION OF CHROMIUM ENHANCED BY ARBUSCULAR MYCORRHIZAL FUNGI IN SEMI-AQUATIC HABITATS WITH BIOCHAR ADDITION Zhongbing Chen, Czech Republic	EAST FORK WETLAND: LESSONS LEARNED FROM 14 YEARS OPERATION OF A 745-HA TREATMENT MARSH Tim Noack, USA	ASSESSMENT OF WATER BALANCES IN RE-DESIGNED ZERO DISCHARGE WILLOW EVAPOTRANSPIRATION SYSTEMS FOR TREATING DOMESTIC WASTEWATER IN AREAS WITH LOW PERMEABILITY SOILS Laurence Gill, Ireland	
12:10 - 12:30		REMOVAL MECHANISMS OF PERSISTENT ORGANIC POLLUTANTS BY BIOCHAR AND ITS POTENTIAL APPLICATION IN CONSTRUCTED WETLANDS Jingyu Wang, Denmark	CONSTRUCTED WETLANDS FOR THE REMEDIATION OF CYANOTOXINS: A STORY OF BACTERIA, FUNGI AND TRANSFORMATION PRODUCTS Alba Martinez, Denmark	FIRST EXPERIENCES WITH NATURAL TREATMENT BASED ON WILLOWS FOR CONCENTRATE OF REVERSE OSMOSIS Thomas Rogier, Belgium	
12:30 - 13:40					Lunch & posters

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13:40 - 14:00	Natural wetlands, restoration & maintenance (Chair: Suzanne Lettens) TIDAL MARSH RESTORATION ON SAPELO ISLAND: A LEGACY OF R.J. REYNOLDS, JR., EUGENE ODUM AND THE UNIVERSITY OF GEORGIA MARINE INSTITUTE Christopher Craft, USA	Post-treatment (Chair: Flor Louage) LONG-TERM MONITORING OF TWO FULL-SCALE WETLANDS POLISHING URBAN WASTEWATER TREATMENT PLANT EFFLUENTS Giuseppe Mancuso, Italy	Non-point source pollution III (Chair: Karin Tonderski) CARBON AND NUTRIENT SEQUESTRATION IN NATURAL WETLANDS FED BY AGRICULTURAL RUNOFF AND DRAINAGE Jan Vymazal, Czech Republic	Vertical flow wetlands II (Chair: Magda Gajewska) INFLUENCE OF MEDIA SIZE AND PLANT SPECIES ON NITRIFICATION IN UNSATURATED VERTICAL FLOW WETLANDS Christopher Allen, USA	
14:00 - 14:20	TRACKING COASTAL WETLAND AREA CHANGE INTEGRATING REMOTE SENSING WITH FIELD-BASED MEASUREMENTS John White, USA	NATURE-BASED HYBRID SOLUTIONS TO REMOVE NITROGEN FROM MUNICIPAL WASTEWATER IN ARCTIC REGIONS Heini Postila, Finland	A SATURATED BUFFER ZONE AS COST-EFFECTIVE NATURE-BASED SOLUTION TO MITIGATE THE AGRICULTURAL NUTRIENT POLLUTION OF STREAMS IN DENMARK Dominik Zak, Denmark	THE USE OF VERTICAL FLOW CONSTRUCTED WETLANDS TO PHOSPHORUS AND NITROGEN REMOVAL FROM DOMESTIC WASTEWATER Adelaide Almeida, Portugal	
14:20 - 14:40	ENVIRONMENTAL CONDITIONS MEDIATING DECOMPOSITION AND NUTRIENT RELEASE IN FORESTED PEATLANDS Lipe Mendes, Ireland	CONSTRUCTED WETLANDS TO REDUCE FIRST FLUSH AMMONIUM PEAKS IN WASTEWATER TREATMENT PLANT EFFLUENT: AN EXPLORATORY STUDY Joost van den Bulk, The Netherlands	ASSESSMENT OF NUTRIENT ACCUMULATION AND TRANSLOCATION IN PLANT BIOMASS IN A MATURE FREE-WATER SURFACE TREATMENT WETLAND MITIGATING DIFFUSE AGRICULTURAL POLLUTION Julien Tournebize, France	PARTIAL SIPHON OPERATIONAL STRATEGY STRENGTHENS THE NITROGEN REMOVAL PERFORMANCE THROUGH INTENSIFIED OXYGEN SUPPLY AND CARBON UTILIZATION ABILITY IN PARTIALLY SATURATED VERTICAL FLOW WETLAND Shangwu Zuo, China	
14:40 - 15:00	MAINTENANCE OF OXIDATION PONDS FOR WASTEWATER TREATMENT IN KENYA - CAN IT BE MADE EASIER BY USE OF AMPHIBIAN TRACTORS? Ruud Kampf, The Netherlands	THE ROLE OF TREATMENT WETLANDS IN POTABLE WATER REUSE Rafael Vazquez-Burney, USA	HYDROGEN AND OXYGEN ISOTOPES ALONG THE HYDRAULIC FLOW GRADIENTS AND PLANT-BED/DITCH SYSTEM IN FOUR CONSTRUCTED ROOT CHANNEL WETLANDS Margit Koiv-Vainik, Estonia	ADAPTING VERTICAL-FLOW CONSTRUCTED WETLANDS FOR ON-DEMAND NUTRIENT REMOVAL FROM GREYWATER Carlo Morandi, Germany	
15:00 - 15:20		REMOVAL OF NITROGEN AND EMERGENT POLLUTANTS FROM MUNICIPAL WASTEWATER WITH WOODCHIP BIOREACTORS Matthew Hopkins, Finland	MITIGATING DIFFUSE AGRICULTURAL POLLUTION Weidong Wang, China	OPTIMIZING DENITRIFICATION IN A COLD WEATHER TWO-STAGE VERTICAL FLOW TREATMENT WETLAND USING OPERATIONAL CONTROLS Otto Stein, USA	
15:20 - 15:50					Coffee & Posters
15:50 - 16:10	PPCP removal (Chair: Maria Alejandra Maine) CONSTRUCTED WETLANDS FOR REMOVAL OF MICROPOLLUTANTS FROM WASTEWATER TREATMENT PLANT EFFLUENT: AN EXPLORATORY STUDY Joost van den Bulk, The Netherlands	Modelling (Chair: Nicolas Forquet) AUTOMATICALLY OPTIMIZING THE SIZING OF A WASTEWATER TREATMENT WETLAND CHAIN : CASE STUDY OF THE FRENCH SYSTEM Zoé Legai, France	Bio-electrochemical systems (Chair: Carlos Arias) BOOSTING ELECTRIC VOLTAGE AND POWERING AN UV LAMP FOR EFFLUENT DISINFECTION IN A ELECTRO-WETLAND SYSTEM Yaqian Zhao, China	Vertical flow wetlands III (Chair: Jan Vymazal) MODIFIED PLASTERBOARD SHEET WASTE FROM THE CIVIL CONSTRUCTION INDUSTRY AS SUBSTRATE IN VERTICAL-FLOW CONSTRUCTED WETLAND Karina De Carvalho, Brazil	
16:10 - 16:30	ASSESSING AND MONITORING WETLAND EFFICIENCY WITH MINIATURISED BIOASSAYS- DOES THE SORPTION OF LIPOPHILIC SUBSTANCES TO PLASTIC MICROTITER PLATES CONFOUND RESULTS ? Eberhard Küster, Germany	USING NUMERICAL EXPERIMENTS TO DETERMINE THE INFLUENCE OF DESIGN PARAMETERS ON THE PERFORMANCE OF VERTICAL FLOW WETLANDS Bernhard Pucher, Austria	EVALUATING THE IMPACT OF SEASONAL CHANGES IN TEMPERATURE ON SECONDARY METLAND TREATMENT PERFORMANCE Gabriela Dotro, UK	FUNCTIONS OF THE SUCCESSIVE STAGES OF VERTICAL FLOW TREATMENT WETLANDS BASED ON BIOTIC AND ABIOTIC SOLID/LIQUID INTERACTIONS Mathieu Gautier, France	
16:30 - 16:50	ORGANIC MICROPOLLUTANTS ON MULTISOURCE PILOTS: RESULTS FROM A NON-TARGET SCREENING ANALYSIS Vaidotas Kisielius, Denmark	HYDRAULIC CHARACTERIZATION IN A HYBRID AERATED VERTICAL FLOW-HORIZONTAL FLOW TREATMENT WETLAND Caroline Miyazaki, France	MICROBIAL ELECTROCHEMICAL TECHNOLOGY CONSTRUCTED WETLAND FOR MUNICIPAL WASTEWATER TREATMENT Elisangela Heiderscheidt, Finland	FULL SCALE CONSTRUCTED WETLAND WITH NOVEL POST-TREATMENT STEP AND CONTINUOUS MONITORING, AS ALTERNATIVE FOR SEWERAGE IN RURAL FLANDERS Jente Lezy, Belgium	
16:50 - 17:10	DEGRADATION AND TRANSFORMATION OF E2-3S IN HORIZONTAL FLOW CONSTRUCTED WETLAND Ting Wei, China	MODELLING OF ARSENIC REMOVAL, FATE AND DISTRIBUTION IN SUBSURFACE FLOW CONSTRUCTED WETLANDS: PRELIMINARY RESULTS USING A PROCESS-BASED TOOL Diego Bravo-Riquelme, Chile	A DECADE OF ELECTROACTIVE CONSTRUCTED WETLANDS- ACHIEVEMENTS AND THE WAY FORWARD Asheesh Yadav, India	5 YEARS OF PERFORMANCE OF A NOVEL DESIGN INVOLVING VERTICAL AND HORIZONTAL FLOW CONSTRUCTED WETLANDS FOR SEWAGE TREATMENT IN INDIA Nadeem Khalil, India	
17:15 - 18:15	YWP event Nadine Sossalla, Norway & Marco Hartl, Austria				
19:00 - ...	Conference dinner @ Brewery De Halve Maan (Address: Walplein 26, Bruges)				

Wednesday 13 Sept

FIELDTRIPS: see separate program

buses are leaving from the Bargeplein (Katelijnparking) along the Bargeweg in Bruges !!

Thursday 14 Sept	AUDITORIUM A (1st FLOOR)	AUDITORIUM B (1st FLOOR)	ROOMS 1+2 (3rd FLOOR)	ROOMS 4+5 (3rd FLOOR)	CATERING ROOM (4th FLOOR)
08:30 - 09:00					Registration & Coffee
	SUDS I (Chair: Mireille Martens)	Green roofs & walls & greywater treatment (Chair: Tamara Avellan)	Micropollutants removal (Chair: Jaime Nivala)	Special wastewaters (Chair: Yaqian Zhao)	
09:00 - 09:20	MULTISTAGE CONSTRUCTED WETLAND FOR WATER PROTECTION AGAINST URBAN DRAINAGE POLLUTION	GUIDELINES FOR DESIGNING GREEN ROOFS AND GREEN WALLS FOR GREYWATER TREATMENT AND REUSE	PERFORMANCE OF ARTIFICIAL WETLAND TO REDUCE PESTICIDE FLOWS: A REVIEW OF 10 YEARS OF MONITORING COUPLING MESOCOSM AND FIELD RESULTS.	SET-UP AND PERFORMANCE OF A CONSTRUCTED WETLAND SYSTEM TO IMPROVE LANDFILL LEACHATE MANAGEMENT CONTAINING PFAAS IN A CONVENTIONAL WASTEWATER TREATMENT PLANT	
	Magdalena Gajewska, Poland	Fabio Masi, Italy	Julien Tournebize, France	Nicola Celadon, Italy	
09:20 - 09:40	WHERE TREATMENT WETLAND KNOWLEDGE MEETS SUSTAINABLE DRAINAGE SYSTEM ? AN OVERVIEW ON DESIGN LINKS AND FUTURE RESEARCH TRENDS	VERTICAL GREENING SYSTEMS AS MULTIFUNCTIONAL SYSTEMS FOR URBAN WATER TREATMENT REUSE AND CIRCULARITY	PERFORMANCE OF CONSTRUCTED WETLANDS FOR THE REMOVAL OF PERSONAL CARE PRODUCTS	IMPLEMENTATION OF LANDFILL LEACHATE TREATMENT WITH NATURE-BASED SOLUTIONS: LIFE GREEN ADAPT PROJECT	
	Anacleto Rizzo, Italy	Bernhard Pucher, Austria	Huma Ilyas, Belgium	Luz Herrero, Spain	
09:40 - 10:00	POLLUTANT REMOVAL IN BIOSWALES	VERTECO® - VERTICAL GREEN WALL SYSTEM DEMONSTRATION FOR DOMESTIC WASTEWATER TREATMENT AND ON-SITE WATER AND NUTRIENT REUSE	PESTIPOND PROJECT: FATE AND BEHAVIOR OF PESTICIDES IN PONDS AND AT THE CATCHMENT SCALE	CARBAMAZEPINE AND DICLOFENAC REMOVAL FROM REAL INDUSTRIAL WASTEWATER USING HYBRID CONSTRUCTED WETLAND: PILOT STUDY	
	Emil Jespersen, Denmark	Marco Hartl, Austria	Julien Tournebize, France	Othman Al-Mashaqbeh, Jordan	
10:00 - 10:20	QUALITATIVE AND QUANTITATIVE ASSESSMENT OF NATURE-BASED SOLUTIONS TO TACKLE URBAN STORMWATER	NATURE-BASED SOLUTIONS FOR GREYWATER REUSE TO REDUCE THE CONSUMPTION OF DRINKING WATER: THE POTENTIAL FOR PUBLIC BUILDINGS IN LUXEMBOURG	EMERGING CONTAMINANT BEHAVIOUR WITHIN A FULL-SCALE FREE WATER SURFACE CONSTRUCTED WETLAND	IMPACT OF DESIGN ASPECTS ON IRON REMOVAL FROM COAL MINE DRAINAGE IN FULL-SCALE LAGOONS	
	Loïc Maurer, France	Silvia Venditti, Luxembourg	Emma Vaughan, UK	Oluwanisola Okeleji, UK	
10:20 - 10:50					Coffee & Posters
	SUDS II (Chair: Mathieu Gautier)	LCA & sustainability (Chair: Alexandros Stefanakis)	Role of plants & hydraulics (Chair: Maurizio Borin)	Greenhouse gases & sequestration (Chair: Ülo Mander)	
10:50 - 11:10	TREATMENT CAPACITY OF ENHANCED RAIN GARDEN – CASE STUDY IN GDAŃSK	A WHOLELIFE COST AND CARBON PERSPECTIVE OF ALTERNATIVES TO SEPTIC TANKS UTILISING AEROBIC WETLANDS	NATIVE CANADIAN PLANTS TO PHYTOREMEDIATE TRICLOSAN IN CONSTRUCTED WETLANDS	GREENHOUSE GAS EMISSIONS FROM A COLD-CLIMATE TREATMENT WETLAND	
	Magdalena Gajewska, Poland	Gabriela Dotro, UK	Laurianne Bedard, Canada	Stephanie Ayotte, USA	
11:10 - 11:30	PREFERENTIAL FLOW IN PARTIALLY SATURATED TREATMENT WETLAND AND ITS IMPACT ON POLLUTANT RESIDENCE TIME	RAPID ASSESSMENT FOR SUSTAINABLE SUITABILITY OF CONSTRUCTED WETLANDS	BENEFITS OF THE PRESENCE OF PLANTS IN WETLAND+ SYSTEM, TREATING HCH POLLUTED SITES.	COMPARING ANALYSIS OF CARBON SINKS EFFECTS BETWEEN CONSTRUCTED WETLANDS AND NATURAL WETLANDS	
	Ania Morvannou, France	Tamara Avellan, Finland	Carlos Arias, Denmark	Lei Yang, Taiwan	
11:30 - 11:50	THE ROLE OF NATURE-BASED SOLUTIONS FOR THE WATER FLOW MANAGEMENT IN A MEDITERRANEAN URBAN AREA	SURVEY ON SOCIO-ECONOMIC IMPACT OF THE WETLAND+® TECHNOLOGY FOR TREATMENT OF HCH-CONTAMINATED WATER	EFFICIENCY OF HORIZONTAL MACROPHYTIC PONDS WITH PHRAGMITES AUSTRALIS AND ITS INFLUENCE ON THE POLLUTANTS ASSIMILATION BY THE PLANTS	MICROPOLLUTANT REMOVAL AND MICROBIAL COMMUNITY DYNAMICS OF A 3-YEAR OLD CONSTRUCTED WETLAND WITH ADSORPTION SUBSTRATE	
	Liviana Sciuto, Italy	Pavla Svermova, Czech Republic	Renata Ferreira, Portugal	Thomas Wagner, The Netherlands	
11:50 - 12:10	CIRCULAR URBAN WATER SOLUTIONS WITH NATURE-BASED SOLUTIONS: URBAN REAL LABS IN SPAIN	LIFE CYCLE ASSESSMENT OF ENHANCED CONSTRUCTED WETLANDS FOR MICROPOLLUTANT REMOVAL FROM MUNICIPAL EFFLUENT	SIMULATION OF THE HYDRAULIC BEHAVIOUR OF A TREATMENT WETLAND IN THE MEDITERRANEAN AREA USING HYDRUS	PERFORMANCE OF FLOATING TREATMENT WETLANDS IN PONDS WITH HIGH EUTROPHIC LEVEL DURING DIFFERENT SEASONS OF THE YEAR	
	Rubén Hervas, Spain	Hana Brunhoferova, Ireland	Feliciana Licciardello, Italy	Eugenia Olguín, México	
12:10 - 13:40					Lunch

Thursday 14 Sept	AUDITORIUM A (1st FLOOR)	AUDITORIUM B (1st FLOOR)	ROOMS 1+2 (3rd FLOOR)	ROOMS 4+5 (3rd FLOOR)	CATERING ROOM (4th FLOOR)
13:40 - 14:20		Plenary session III (Chair: Gijs Du Laing) KEYNOTE: ARE WETLANDS A SOURCE OR SINK OF GREENHOUSE GASES? Ülo Mander, Estonia			
14:20 - 15:00		KEYNOTE: TREATMENT WETLANDS 3rd EDITION Jaime Nivala, France			
15:00 - 15:30					Coffee
15:30 - 16:10		Plenary session IV (Chair: Diederik Rousseau) KEYNOTE: MAKING THE BUSINESS CASE FOR NATURE-BASED SOLUTIONS France Guertin, USA			
16:10 - 16:45		AWARDS AND CONFERENCE CLOSING SESSION WETPOL OC			

LIST OF POSTER PRESENTATIONS

#	Name	Country	POSTER TITLE
1	Guna Bavithra	Portugal	TESTING LOCAL AGRO-WASTE MATERIALS AS SUBSTRATE CANDIDATES FOR CONSTRUCTED WETLANDS TREATING CYANOTOXIN CONTAMINATED WATER
2	Alisson Borges	Brazil	AUXIN AND GIBBERELIN AMMENDMENT FOR FLUORIDE PHYTOREMEDIATION: A SCREENING STUDY
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