Welcome to WETPOL 2023 !

On behalf of the organizing committee, welcome in Bruges for this 10th edition of the Wetland Pollutant Dynamics and Control Symposium.

In this program book, you will find all practical information about the conference:

- The program schedule, featuring all keynote and oral presentations
- A list of poster presentations, on display in the catering hall
- A map with the locations of the conference venue, the conference diner, and the bus parking for the field trips
- Some further practical information about the fieldtrips

The book of abstracts is available as a pdf document on the website www.wetpol.org.

Any last minute changes or other important information will be announced on the television screens spread throughout the meeting venue BMCC.

If you have any further questions, do not hesitate to ask one of the WETPOL team members!

We hope you enjoy the conference.

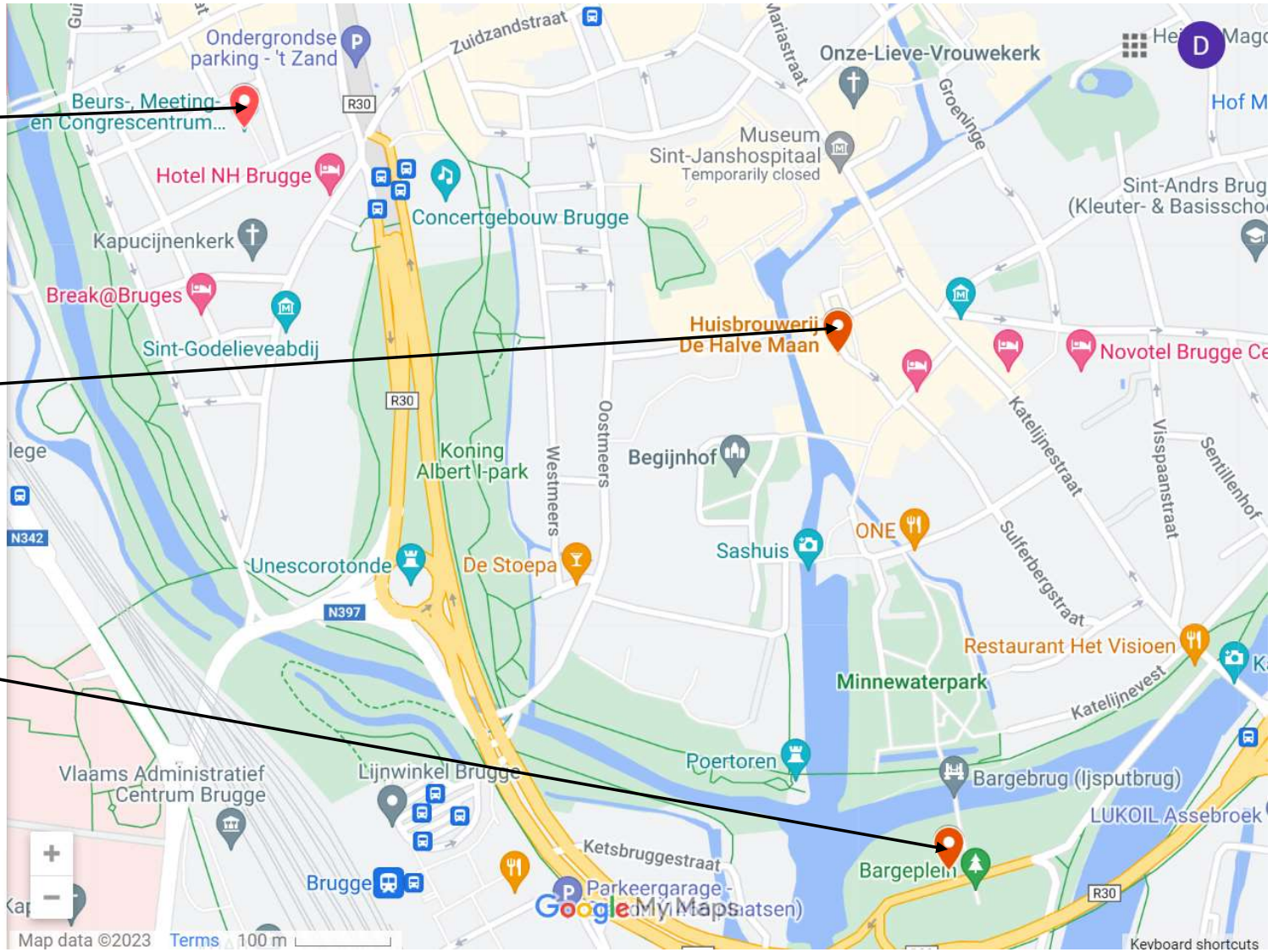
The WETPOL 2023 organizing committee

Diederik Rousseau – Ghent University, Belgium
Gijs Du Laing – Ghent University, Belgium
Stijn Van Hulle – Ghent University, Belgium
Huma Ilyas – Ghent University, Belgium
Flor Louage – Ghent University, Belgium
Bart Van Der Bruggen – KU Leuven, Belgium
Mireille Martens – HZ University of Applied Sciences, The Netherlands
Emma Mc Ateer – HZ University of Applied Sciences, The Netherlands
Dion Van Oirschot – Rietland, Belgium & The Netherlands
Birgit De Bock – Aquafin, Belgium

BMCC
Conference venue
Beursplein 1

De Halve Maan
Conference diner
Walplein 26

Bargeplein (Katelijnparking)
Bus parking field trips
Bargeweg



Platinum sponsors

truxor

hellowater

Gold sponsors

Silver sponsors

Bronze sponsors

Sunday 10 Sept						
					BMCC Entrance Hall	CATERING ROOM (4th FLOOR)
	17:00 - 19:00				Registration	Welcome reception

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)
	08:00 - 09:00					Registration & Welcome Coffee
		Plenary session I (Chairs: Diederik Rousseau & Gijs Du Laing)				
	09:00 - 09:10	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
		Plenary session II (Chair: Emma McAteer)				
	11:00 - 11:40	**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
		Interreg project Aquatuur start meeting Interreg Vlaanderen-Nederland · Gefinancierd door de Europese Unie Aquatuur	**HCH and PFAS removal (Chair: Pascal Molle)**	**Microplastics I (Chair: Carmen Hernandez-Crespo)**	**CSO treatment (Chair: Margit Kõiv-Vainik)**	
	13:50 - 14:10		WETLAND+® TECHNOLOGY FOR TREATMENT OF HCH-CONTAMINATED WATER Miroslav Cernik, Czech Republic	IMPACT OF MICROPLASTICS IN URBAN CONSTRUCTED WETLANDS Tanveer Adyel, Australia	NEW GERMAN CODE OF PRACTICE ON SPECIAL APPLICATIONS OF TREATMENT WETLANDS FOR CSO AND STORMWATER Katharina Tondera, Germany	
	14:10 - 14:30		ASSESSMENT OF INTENSIFIED CONSTRUCTED WETLAND FOR REMOVING PERSISTENT, MOBILE AND TOXIC (PMT) COMPOUNDS FROM GROUNDWATER AND WASTEWATER Alicia Cano, Spain	OBSERVATIONS ON MICROPLASTIC FROM WASTEWATER IN TREATMENT WETLANDS OF THE SURFACE FLOW TYPE – REMOVAL VARIABILITY AND ATMOSPHERIC DEPOSITION AS POTENTIAL EXPLANATION Lina Büngener, Finland	FIRST MONITORING RESULTS OF AERATED WETLAND FOR COMBINED SEWER OVERFLOW UPSTREAM THE WWTP OF MERONE (IT) Ricciardo Bresciani, Italy	
	14:30 - 14:50		BEHAVIOR AND IMPACT OF PER- AND POLYFLUOROAKYL SUBTANCES WITHIN TREATMENT WETLAND MESOCOSMS Isaac Timoffee-Maberly, Canada	LAB-SCALE STUDY ON THE FATE AND REMOVAL OF MICROPLASTICS IN HORIZONTAL SUBSURFACE FLOW CONSTRUCTED WETLANDS Qintong Wang, Belgium	FORCED AERATION IN A VERTICAL FLOW WETLAND TO TREAT COMBINED SEWER OVERFLOW Daniella Portela, France	
	14:50 - 15:10		INSIGHT INTO THE CONSTRUCTED WETLAND-MICROBIAL FUEL CELL TECHNOLOGY: ELECTRODE MATERIALS, PLANT CULTIVATION, AND PFAS EXPOSURE Yaqian Zhao, China		LIMESTONE FOR RE-CARBONATION OF TREATMENT WETLANDS FOR COMBINED SEWER OVERFLOWS Julia Storath, Germany	
	15:10 - 15:40					Coffee & posters

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	Interreg project Aquatuur start meeting	**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	**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	**Microbial ecology (Chair: Otto Stein)** GREY WATER AN ISSUE IN URBAN SLUMS – MICROBIAL COMMUNITY Uwe Kappelmeyer, Germany	
	16:00 - 16:20		INTEGRATING CIRCULAR ECONOMY AND BIODIVERSITY IN UPGRADING CONSTRUCTED WETLANDS (LIFE RENATURWAT) Carmen Hernandez Crespo & Núria Oliver, Spain	MICROPLASTICS OCCURRENCE, CHARACTERIZATION, AND REMOVAL IN FULL-SCALE COMBINED SEWER OVERFLOW-CONSTRUCTED WETLAND SYSTEMS UPSTREAM CENTRALIZED WASTEWATER TREATMENT PLANTS Chiara Sarti, Italy	NOVEL LIGHTWEIGHT SUBSTRATE IN CONSTRUCTED WETLAND FOR DOMESTIC WASTEWATER TREATMENT: PREPARATION, PERFORMANCE AND MICROORGANISM COMMUNITY Ting Wei, China	
	16:20 - 16:40		PERFORMANCE EVALUATION OF OPERATIONAL CHANGES IN MODIFIED VERTICAL FLOW TREATMENT WETLANDS WITH ORNAMENTAL PLANTS UNDER ARID CONDITIONS Ismael Vera-Puerto, Chile	DO MICROPLASTICS IMPACT THE TREATMENT EFFICIENCY OF POLLUTANTS IN CONSTRUCTED WETLANDS? Saurabh Dwivedi, India	MICROBIAL COMMUNITY DYNAMICS IN A COLD CLIMATE TREATMENT WETLAND Stephanie Ayotte, USA	
	16:40 - 17:00		DECENTRALISED WASTEWATER TREATMENT AND WATER REUSE FOR REGIONS WITH SEASONAL DROUGHT STRESS Jan Schütz, Germany			
	17:00 - 18:30					Posters & drinks

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

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

The posters are continuously on display in the catering hall on the 4th floor, up to and including the morning coffee break on Thursday 14 September. Afterwards all posters have to be removed.

On Monday 11 September, there is a dedicated poster session with drinks, from 17:00 until 18:30.

#	Presenter	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
3	Alisson Borges	Brazil	CONSTRUCTED WETLANDS FOR WATER DEFLUORIDATION
4	Nathan Bourke	Ireland	THE EFFECTS OF LEAD/ZINC MINE WASTEWATER ON MACROPHYTE STRESS
5	Yamei Cai	P.R. China	SCENARIO ANALYSIS OF MICROPLASTICS FLOW IN CONSTRUCTED WETLAND
6	Oyku Comez	Czech Republic	THE IMPACT OF BIOFILTER MEDIA ADDITIVE AND IRRIGATION METHOD ON THE REMOVAL PERFORMANCE FOR MICROPOLLUTANTS FROM LIGHT GREYWATER
7	Elisa Costamagna	Italy	CONSTRUCTED WETLANDS HYDRODYNAMIC MODELLING FOR ENZYMATIC ACTIVITY ANALYSIS
8	Gisela Di Luca	Argentia	PERFORMANCE OF CANNA INDICA FLOATING TREATMENT WETLANDS IN THE REMOVAL OF CR SPECIES
9	Natalia Donoso	Ecuador	SWOT ANALYSIS FOR THE IMPLEMENTATION OF CONSTRUCTED WETLANDS TREATING COFFEE PROCESSING WASTEWATER IN ECUADOR
10	Vittoria Giannini	Italy	WATER REQUIREMENTS AND SAP FLOW SPEED IN POPLAR PLANTATION UNDER DIFFERENT AGRONOMIC MANAGEMENTS
11	Hernan Haddad	Argentia	ROOT MORPHOMETRICAL RESPONSE IN PLANTS GROWING IN A WETLAND CONSTRUCTED FOR THE TREATMENT OF A METALLURGICAL EFFLUENT
12	Marco Hartl	Austria	DIVAGRI - MULTIFUNCTIONAL CONSTRUCTED WETLANDS WITH A FOCUS ON PRODUCTIVE PLANTS FOR FURTHER VALORISATION IN SEVEN AFRICAN PILOT SITES
13	Perry Hoendervangers	Belgium	BENCHMARKING AND THE INTEGRATION OF NATURE-BASED SOLUTIONS AND ENGINEERED TECHNOLOGIES FOR ENHANCED PESTICIDE REMOVAL
14	Ashlene Hudson	Ireland	MICROBIAL COMMUNITY AND SEDIMENT QUALITY OF A CONSTRUCTED WETLAND TREATING ALKALINE LEACHATE AFTER 5.5 YEARS OPERATION
15	Peiying Kang	P.R. China	THE OCCURRENCE AND TOXICITY OF EMERGING CONTAMINANTS AND THEIR REMOVAL USING CONSTRUCTED WETLANDS: A REVIEW

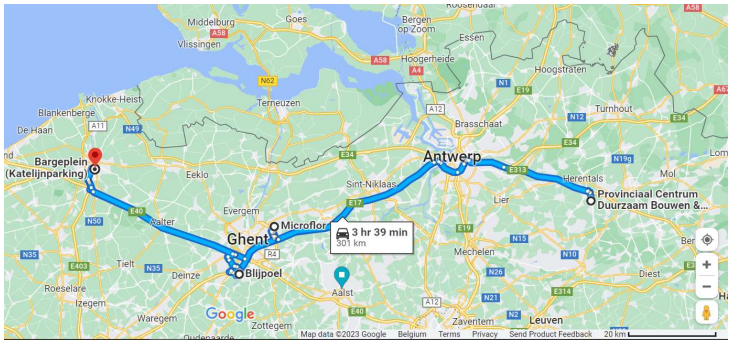
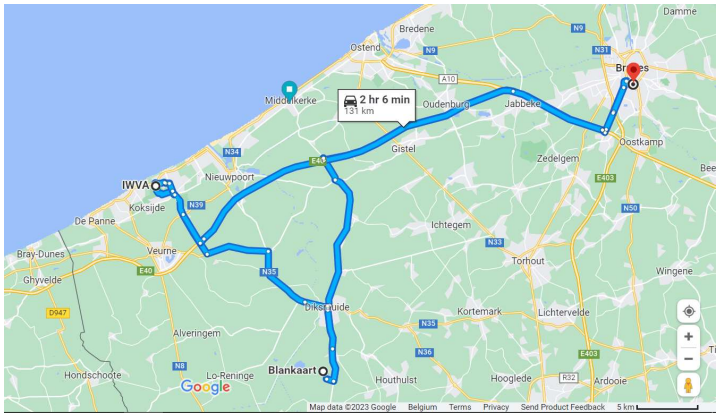
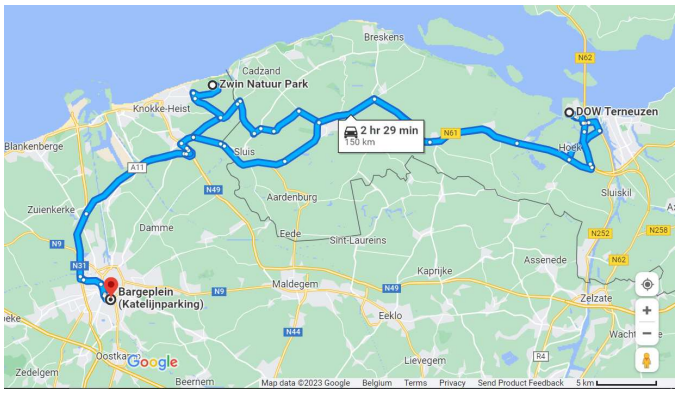
#	Presenter	Country	Poster title
16	Vladimir Léon	Peru	ACID ROCK DRAINAGE REMEDIATION WITH CONSTRUCTED WETLANDS IN ANCASH HIGHLANDS - PERÚ
17	Maria Maine	Argentia	CONSTRUCTED WETLANDS FOR FINAL POLISHING OF SLAUGHTERHOUSE EFFLUENT
18	Adrian Martinez	Spain	ASSESSMENT OF SURFACE FLOW ARTIFICIAL WETLANDS IN THE CONTROL OF POLLUTION FROM URBAN RUNOFF IN L'ALBUFERA DE VALENCIA NATURAL PARK.
19	Lipe Mendes	Ireland	RECOVERY OF WATER QUALITY FROM DRAINED FORESTED PEATLANDS WITH BIOCHAR
20	Mercedes Mufarrege	Argentia	ROOT MORPHOMETRY AND TOLERANCE OF CANNA INDICA IN FLOATING TREATMENT WETLANDS FOR CR(III) AND CR(VI) REMOVAL
21	Fernanda Muniz Sacco	Luxembourg	PERSONAL CARE PRODUCTS REMOVAL FROM GREYWATER USING NATURE-BASED SOLUTIONS FOR WATER REUSE IN SUSTAINABLE BUILDINGS: THE “RECARE” PROJECT APPROACH
22	Emanuel Nocetti	Argentia	COMPARISON OF HYBRID WETLAND ARRANGEMENTS FOR DAIRY WASTEWATER TREATMENT
23	Eugenia Olguín	México	FLOATING TREATMENT WETLANDS, COMPOSED OF Pontederia sagittata AND Cyperus papyrus, FOR THE REMOVAL OF MICROPLASTICS IN TWO URBAN PONDS
24	Dee Philips	UK	WASTEWATER TREATMENT AND GREENHOUSE GAS EMISSIONS: HERBACEOUS VS WOODY HORIZONTAL CONSTRUCTED WETLANDS
25	Pau Porras	Portugal	THE ROLE OF SPARGANIUM ERECTUM, SUBSTRATES AND MICROORGANISMS IN CONSTRUCTED WETLANDS TREATING ANAEROBIC DIGESTION EFFLUENTS
26	Tongxin Ren	Czech Republic	PARTIALLY-SATURATED CONSTRUCTED WETLANDS AS PERFORMANCE ALL-ROUNDERS FOR THE REMOVAL OF HOUSEHOLD MICROPOLLUTANTS
27	Ailen Soto	Portugal	VERTICAL FLOW CONSTRUCTED WETLANDS FOR ANAEROBIC DIGESTATE SAFE REUSE: MICROPLASTICS, METALS AND PATHOGENS REMOVAL, FATE AND PERSISTANCE
28	Joana Strycharz	Poland	REMOVAL OF ORGANICS AND NUTRIENTS IN FLOATING TREATMENT WETLANDS COMBINED WITH MICROBIAL FUEL CELLS UNDER DIFFERENT ORGANIC LOADING RATES
29	Ewa Wojciechowska	Poland	STRAW AND WOOD BIOCHAR APPLICATION TO MARGINAL SOIL FOR MISCANTHUS GIGANTEUS ENERGY BIOMASS PRODUCTION: A POT SCALE STUDY

FIELD TRIPS – PRACTICAL INFORMATION

All field trips will leave from the Bargeplein (Katelijnparking) along the Bargeweg in Bruges. This is a 20-25 minute walk away from the conference venue!

Below you can find a map indicating the tour, and an indicative timing. Please respect the departure time and be at least 15 minutes before departure present at the bus parking!

A packed lunch will be provided by the conference. Further information about the visits will be provided on the bus and on the sites.

FIELDTRIP 1 	• **08:30: departure** • 10:30 – 12:30: visit Kamp C green wall & lunch • 14:00 – 15:30: visit Microflor CWs • 16:00 – 17:30: visit Aquafin CWs • 18:30: estimated arrival Bruges
FIELDTRIP 2 	• **09:00: departure** • 10:00 – 12:30: visit de Blankaart & lunch • 13:00 – 15:00: visit IWVA • 16:00: estimated arrival Bruges
FIELDTRIP 3 	• **09:00: departure** • 10:00 – 13:000: visit het Zwin & lunch • 14:00 – 16:00: visit CWs DOW/Evides • 17:00: estimated arrival Bruges