

WETPOL2019 - Programme

Tuesday 18 June

Auditorium 1, Per Kirkeby. Tuesday 18 June

Time	Session	Author	Title	
08:15	Welcome Opening Ceremony Welcoming by Dr. Lars Henrik Andersen, Dean of	Hans Brix and Carlos A. Arias (WETPOL2019 Conference chairs) Matthew Simpson P.W.S (President of SWS Europe) Lars H. Andersen (Dean of Faculty of Science and Technology, Aarhus University)		Plenary session 1
08:30	Keynote 1	K.N. 1.1 Dr. Curtis J. Richardson	A PARADOX FOR WETLAND ECOSYSTEM SERVICES: HIGHLY VALUED BUT UNDER APPRECIATED	
09:00	Keynote 2	K.N. 1.2 Dr. Jennifer L. Tank	THE INFLUENCE OF FLOODPLAIN RESTORATION ON WATER QUALITY IN AGRICULTURAL STREAMS	
09:30	Coffee break (15 min)			
09:45	Sessions (5 talks)			
09:50	Chair: Jan Vymazal Special session 1 Constructed wetlands for treatment of agriculture drainage and runoff	Introduction		Special session 1
10:05		S.S. 1.1	Nicola Dal Ferro, Carmelo Maucieri, Carlo Camarotto, and Maurizio Borin	
10:20		S.S. 1.2	Matthew T. Moore and Martin A. Locke	
10:35		S.S. 1.3	Jan Vymazal, Petr Fučík, Tereza Hnátková, Michal Šereš, Adam Sochacki and Zhongbing Chen	
10:50		S.S. 1.4	Chris C. Tanner, Evelyn Uuemaa, Chris C. Palliser, Andrew O. Hughes	
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Chris Tanner Agricultural run-off	C.P. 1.1	Vit Rous, Bernhard Pucher, Tereza Hnatkova, Michal Šereš, Petr Fučík, Jan Vymazal, Guenter Langergraber	Contributed Papers 1
11:45		C.P. 1.2	Xi Nan, Stevo Lavrić, Stefano Anconelli, Domenico Solimando, Attilio Toscano	
12:00		C.P. 1.3	Margit Kõiv-Vainik, Khalil Abas, Théo Granier, Marc Amyot, Jacques Brodeur, Juan Manuel Montiel, Sébastien Sauvé and Jacques Brisson	
12:15		C.P. 1.4	Teele Ligi, Laurina Šinkejeva, Kaido Soosaar, Mikko Espenberg, Martin Maddison, Raili Torga, Marika Truu, Jaak Truu, Julien Tournebize, Cedric Chaumont and Ülo Mander	
12:30	Lunch (45 min)			
13:15	Sessions (5 talks)			
13:20	Chair: Jaime Nivala Special session 5 Recent advances in the design, application and operations and maintenance of aerated treatment wetlands	Introduction		Special session 5
13:35		S.S. 5.1	Mohammad-Hosein Mozaffari, Ehsan Shafiepour, Seyed Ahmad Mirbagheri, Gholamreza Rakhshandehroo, Scott Wallace	
13:50		S.S. 5.2	Dion van Oirschot, Patrick Hawes and Scott D. Wallace	
14:05		S.S. 5.3	Pascal Molle, Stéphanie Prost-Boucle, Stéphane Troesch and Ania Morvannou	
14:20		S.S. 5.4	Clodagh Murphy, Andrew Freeman, Dion van Oirschot, Scott Wallace and David Cooper	
14:35	Discussion			
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Scott Wallace Aerated system	C.P. 5.1	Ángel Gallegos, Lorena Aguilar, Carlos A. Arias, Eva Fores, Carme Bosch, Maria Verdum, Patricia Jové, Joan de Pablo, Jordi Morató	Contributed Papers 5
15:15		C.P. 5.2	Chris C. Tanner, Jason Park and James P.S. Sukias	
15:30		C.P. 5.3	Stéphane Troesch, Alain Petitjean, Dirk Esser, Dion van Oirschot, Scott Wallace	
15:45		C.P. 5.4	Lorena Aguilar, Ángel Gallegos, Eva Fores, Carlos A. Arias, Carme Bosch, Maria Verdum, Patricia Jove, Joan de Pablo & Jordi Morató	
16:00		C.P. 5.5	V. Serdobbel, J. Paing, Florent Chazarenc, and Pascal Molle	
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Carl C. Hoffmann Agricultural drainage	C.P. 9.1	Claire Villette, Loïc Maurer, Adrien Wanko, Dimitri Heintz	Contributed Papers 9
16:45		C.P. 9.2	Antonín Zajíček, Štěpán Marval, Tomáš Vybíral, Petr Fučík	
17:00		C.P. 9.3	Vasiliki G. Ioannidou, Jonathan M. Pearson	
17:15		C.P. 9.4	Atle Hauge	
17:30		C.P. 9.5	Jan Vymazal, Tereza Dvorakova Brezinova	

Auditorium 1, Per Kirkeby. Wednesday 19 June

Time	Session	Author	Title	
08:00	Keynote 3	K.N.2.1 Dr. Hans Joosten	PALUDICULTURE - THE PEATLAND PATHWAY TO 2050	Plenary session 2
08:30	Keynote 4	K.N.2.2 Dr. K. Ramesh Reddy	PHOSPHORUS BIOGEOCHEMISTRY IN WETLANDS: INSIDE THE BLACK BOX	
09:00	Keynote 5	K.N.2.3 Dr. Tom Headley	HOW DO YOU TURN 200,000 M3/DAY OF OILY WASTEWATER IN THE MIDDLE OF THE DESERT INTO A 480HA TREATMENT WETLAND OASIS?	
09:30	Coffee break (15 min)			
09:45	Sessions (5 talks)	Introduction		
09:50	Chair: Kela Weber Special session 9 Microbial Processes in wetlands for water pollution control	S.S. 9.1	Vincent Gagnon and <u>Kela Weber</u>	Macroscale semi-quantitative imaging of the nitrification process in subsurface flow constructed wetlands using fluorescent bacteria
10:05		S.S. 9.2	<u>Uwe Kappelmeyer</u> , Jochen Müller, Hermann Heipieper	Microbial toluene degradation in the complex root-zone of an idealized lab-scale wetland reactor: Analysis of the microbiome and preteome
10:20		S.S. 9.3	<u>Elodie Passeport</u> , Boris Droz, Leandra Rhodes, Gwenaél Imfeld	Dissipation of Atrazine at the sediment-water interface of a wetland and a bioretention cell
10:35		S.S. 9.4	Lorena Aguilar, Ángel Gallegos, Carlos Arias, Raquel Rubio, Leila Haulani, Josep García, Marc Pallarés, Joan de Pablo, <u>Jordi Morató</u>	Effect of induced aeration on nirS and nosZ gene copy numbers in the filter medium of vertical flow treatment wetlands
10:50		S.S. 9.5	Akram Sayed, Joana Piseiro, Diederik P.L. Rousseau, <u>Ana F. Galvão</u>	Respirometric test for determining stoichiometric parameters of a full scale HSSF constructed wetland
11:05	Discussion			
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Vincent Gagnon	C.P.13.1	<u>Carlos A. Ramirez-Vargas</u> , Carlos A. Arias, Liang Zhang, and Hans Brix	Microbial Community Function In Electroactive Biofilm-Based Constructed Wetlands
11:45	Microbial and enzymatic processes in CWs	C.P.13.2	Muhammad Arslan Marcello Santoni, Arndt Wiessner, Thomas Neu, Dietmar Pieper, and <u>Jochen A. Müller</u>	Decline of fitness of <i>Juncus Effesus</i> during low dose exposures with antimicrobials coincides with major changes of the endophytic bacterial community
12:00		C.P.13.3	<u>Andrii Butkovskiy</u> , Lipi Reddy, Andrea Brunsch, and Nico Jehmlich	Enzymatic Profile Of Retention Soil Filters Treating Effluent Of A Sewage Treatment Plant
12:15		C.P.13.4	<u>Elisa Costamagna</u> , Vincent Gagnon and Fulvio Boano	Opening The Black Box: Fluorescence-Based Imaging Of Spatial Patterns Of Microbial Enzymatic Activity In A Vegetated Wall For Domestic Graywater Treatment
12:30		Lunch (45 min)		
13:15	Sessions (4 talks)	Introduction		
13:20	Chair: Katharina Tondera Special session 13 Nature based solutions in circular economy - dissemination and practice	S.S. 13.1	Katharina Tondera, <u>Kela P. Weber</u>	Never too early: Kick-starting nature based solutions system education
13:35		S.S. 13.2	<u>Günter Langergraber</u> , Natasa Atanasova	The cost Action CA17133 circular city
13:50		S.S. 13.3	<u>Godecke Blecken</u>	Blue green infrastructure in urban drainage - Do we get it right in grey white climates?
14:05		S.S. 13.4	<u>Fabio Masi</u> , Florent Chazarenc, Anacleto Rizzo and Katharina Tondera	Snapp – Water, Sanitation And Nature And The Iwa Task Group On Nature-Based Solution
14:20	Pedagogical and outreach workshop			
14:35	Discussion			
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Fabio Masi	C.P.19.1	<u>Pedro N. Carvalho</u>	Nature-Based Solutions And The Challenges In Urban Water Quality
15:15	Urban CWs	C.P.19.2	<u>Martin Regelsberger</u>	Urban Wetlands
15:30		C.P.19.3	Julien Laurent, Anne Caner-Chabran, Philippe Branchu, Rémi Suaire, and <u>Adrien Wanko</u>	Fractionation Of Trace Metals From Urban Stormwater Constructed Wetland: Comparison Of Three Watersheds In France
15:45		C.P.19.4	<u>Nicole Nawrot</u> , Ksenia Pazdro, Jolanta Walkusz-Miotk, Karolina Matej-Lukowicz, and Ewa Wojciechowska	Phytoremediation Strategies For Bottom Sediments Contaminated With Heavy Metals: Uptake And Accumulation In Phragmites Australis Originating From Natural And Urban Catchment
16:00		C.P.19.5	<u>Fabio Masi</u> , Anacleto Rizzo, Nicola Martinuzzi, and Riccardo Bresciani	10 Years experiences on nature-based solutions for wastewater treatment in arid countries of Palestine and Tunisia
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Ūlo Mander	C.P.23.1	<u>Darja Istenič</u> , Marina Pintar, Carlos A. Arias, and Tjaša Griessler Bulc	Water Balance In Evapotranspirative Willow System
16:45	Evaporative systems	C.P.23.2	<u>Kirsten Rücker</u> , Mahmuda Sharmin, and Joachim Schrautzer	Treatment Of Biogas Production Run-Off In A Willow Evapotranspiration System In Northern Germany
17:00		C.P.23.3	<u>Louis-Clément Barbeau</u> , Xavier Lachapelle-T, Philippe Heine, Michel Labrecque, and Yves Comeau	Potential Of A Short-Rotation Willow Coppice Land Application System For Volume Reduction, Treatment And Valorisation Of Landfill Leachate
17:15		C.P.23.4	<u>C. Marisa R. Almeida</u> , and Ana Paula Mucha	Constructed Wetlands - Taking Advantage Of Nature Natural Processes To Minimize Environmental Problems
17:30		C.P.23.5	<u>Loïc Maurer</u> , Claire Villette, Paul Bois, Julien Laurent, Adrien Wanko, and Dimitri Heintz	Non-Targeted Micropollutants Identification By High Resolution Mass Spectrometry In A Tertiary Treatment Wetland Ecosystem

Auditorium 1, Per Kirkeby. Friday 21 June
Friday 21 June

Time	Session	Author	Title	
08:30	Contributed papers (5 talks) Chair: Pedro Carvalho	C.P 27.1	William Pepe, Richard Sellen, <u>Scott Wallace</u> , Edward Kolodziej, and Istvan Gyorffy	Constructed Wetland Bioremediation Of Chlorinated Organic Compounds In A Groundwater Capture And Reinjection System
08:45	Emerging contaminants	C.P 27.2	<u>Tao Lyu</u> , Liang Zhang, Xiao Xu, Carlos A. Arias, Hans Brix, and Pedro N. Carvalho	Removal Of The Pesticide Tebuconazole In Constructed Wetlands: Design Comparison, Influencing Factors And Modelling
09:00		C.P 27.3	Nasly Yanid Delgado, Yury Lizeth Bermeo González, Daniel Alejandro Hoyos López, <u>Juan Carlos Casas Zapata</u> , Gustavo Peñuela Mesa, Damián Marino	Evaluation Of The Efficiency Of Removal Of Emerging Pollutants Through Wetlands Constructed of Horizontal Subsuperficial Flow
09:15		C.P 27.4	<u>Wernfried Schier</u> , Ursula Telgmann, Jörg Felmeden	Intensified Constructed Wetlands For Cso/Sso-Treatment To Achieve Immission-Oriented Thresholds For Phosphorus, Micro Pollutants And Priority Substances According To WFD
09:30		C.P 27.5	Andrea Zraunig, Miquel Estelrich, Heinz Gattringer, Johannes Kisser, Manfred Radtke, Ignasi Rodriguez-Roda, and <u>Gianluigi Buttiglieri</u>	Vertical Ecosystem For Decentralised Greywater Reuse In A Euro-Mediterranean Resort: Long Term Micropollutants Removal
09:45	Coffee break (15 min)			
10:00	Contributed papers (5 talks) Chair: Tao Lyu	C.P 31.1	Paul Bois, Julien Laurent, Laurent Paulic ² and <u>Adrien Wanko</u>	Urban Stormwater Constructed Wetland Efficiency: Comparison Of Micropollutants Removal And Ecotoxicity Assessment
10:15	Micropollutants	C.P 31.2	<u>Yujie He</u> , Nora B. Sutton, Yu Lei, Huub H.M. Rijnaarts, Alette A.M. Langenhoff	Fate And Distribution Of Pharmaceutically Active Compounds In Mesocosm Constructed Wetlands
10:30		C.P 31.3	<u>Hana Brunhoferova</u> , Silvia Venditti, Joachim Hansen, Joachim Böttcher	Role Of Targeted Biochar-Activation In The Removal Of Macro- And Micropollutants From Secondary Effluent Wastewater
10:45		C.P 31.4	<u>Matsodoum N. P.</u> , Kengne N. I. M., Djumyom W. G. V., Djocgoue P. F. , Wanko N. A.	Modeling Pahs Transfer From Polluted Soil To Herbaceous Species In Phytoremediation Attempts
11:00		C.P 31.5	<u>Marcello Santoni</u> , Diederik Rousseau	Nature-Based Solutions For Wastewater Treatment: Can They Stop Microplastics Pollution?
11:15	Break (15 min)			
11:30	Keynote 6		Dr. Karin M. Kettenring	MECHANISMS, IMPACTS, AND MANAGEMENT OF WETLAND PLANT INVASIONS
12:00	Keynote 7		Dr. William J. Mitsch	FUTURE CHALLENGES AND OPPORTUNITIES FOR WETLAND CREATION AND RESTORATION IN RELATION TO CLIMATE AND LANDSCAPE CHANGES
12:30	Conference closing ceremony			
13:00	Lunch (45 min)			

Contributed Papers 27
Contributed Papers 31
Plenary session 3

WETPOL2019 - Programme

Auditorium 2, Merete Barker. Tuesday 18 June

Tuesday 18 June

Time	Session	Author	Title	
09:45	Sessions (5 talks)	Introduction		
09:50	Chair: Chris Craft Special session 6	S.S. 6.1	R. Scott Winton , Curtis J. Richardson	Herbivorous waterfowl and the role of wetland plants in mediating methane emissions
10:05		S.S. 6.2	John R. White , Yadav Sapkota, Robert Cook, Lisa Chambers	Fate of coastal wetland soil carbon under high relative sea level rise: Implications for future global carbon budgets
10:20	Wetlands, climate change and carbon cycling: From field manipulations to hemispheric surveys	S.S. 6.3	Christopher Craft , Courtney Mobilian and Elena Solohin	Sea level rise and saltwater intrusion reduce carbon assimilation and storage in tidal freshwater marshes
10:35		S.S. 6.4	Curtis J. Richardson , Hongjun Wang, Suzanne. Hodgkins, Neal Flanagan, Bill Cooper, Mengchi. Ho, and Jeff Chanton	Are tropical peatlands more resistant to climate change than boreal peatlands
10:50		S.S. 6.5	Ellen R. Herbert, Joseph P. Schubauer-Berigan, and Christopher B. Craft	Effects of chronic and acute seawater on tidal freshwater marsh carbon cycling
		Discussion		
11:15	Break (15 min)			
11:30	Contributed papers (5 talks) Chair: Diederik Rousseau	C.P. 6.1	Timothy J. Noack , Ryan M. Pierce, and Gregg Eckhardt	Pilot Testing A Free-Water Surface Constructed Wetland To Treat Hypereutrophic Lake Water
11:45	Constructed wetlands performance	C.P. 6.2	Rui Wang , Yiping Tai, Xiang Wan, Weifeng Ruan, Ying Man, Jiayi Wang, Yufen Yang, Yang Yang	Enhanced Removal Of Microcystis Bloom And Microcystin-Lr Using Microcosm Constructed Wetlands With Bioaugmentation Of Degrading Bacteria
12:00		C.P. 6.3	Jennifer Tejedor, Vanessa C�ndor , Cristina Elizabeth Almeida and Cristina Alejandra Villamar	Performance Of Hybrid Peanut Shells Biofilters With Schoenoplectus Californicus To Remove Organic Matter From Domestic Wastewater
12:15		C.P. 6.4	Jari Koskiahho and Markku Puustinen	Suspended solids and nutrient retention in two constructed wetlands as determined from continuous data recorded with sensors
12:30	Lunch (45 min)			
13:15	Sessions (5 talks)	Introduction		
13:20	Chair: Wendelin Wichtmann Special session 2	S.S. 2.1	Wiktor Kotowski , Annette Baatrup-Pedersen, Marta Baumane, Carl Christian Hoffmann, Ewa Jabłońska, Craig Walton, Dominik Zak	Can we enhance nutrient removal in wetland buffer zones by biomass harvesting? A comparison of restored (Danish) and natural (Polish) sites.
13:35		S.S. 2.2	Renske JE Vroom, Ralph JM Temmink, Gijs van Dijk, Matthias Krebs, Greta Gaudig, Christian Fritz, Hans Joosten	The importance of water quality in Sphagnum farming on rewetted peatlands
13:50		S.S. 2.3	Jeroen J.M. Geurts , Christian Fritz, Renske J.E. Vroom, Sonja M. Volman, Merit van den Berg, Fujun Xie and Leon P.M. Lamers	Experiences from paludiculture demonstration sites and experiments in the Netherlands: Which factors influence C fixation and CH ₄ emissions
14:05	Paludiculture: Crop cultivation on rewetted peatland	S.S. 2.4	Hesti L. Tata, Fahmuddin Agus, Wendelin Wichtmann	Peatland restoration by paludiculture in degraded peatland in Indonesia: GHG emissions and economic perspective
14:20		S.S. 2.5	Brian K. Sorrell , Franziska Eller, Carla Lambertini, Linjing Ren, Wenyong Guo and Hans Brix	Photosynthetic and productivity responses highlight the suitability of <i>Typha spp.</i> as palicrops
14:35	Discussion			
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Dennis Konnerup	C.P. 2.1	Jan Peters , Edmundas Greimas, Andreas Haberl, Janis Ivanovs, Merylyn Mannov, Ilze Ozola, Kristian Piirim�e, J�ri-Ott Salm, Normunds Stirvins, Siim Vahtrus, Nerijus Zableckis	Strategies And Policies To Foster Paludiculture As Climate-Smart Agriculture On Peatlands In The Baltic Countries
15:15	Paludiculture	C.P. 2.2	Linjing Ren , Franziska Eller, Carla Lambertini, Hans Brix and Brian K. Sorrell	Intraspecific trait variation of Phragmites australis: implications for its use as a biomass crop
15:30		C.P. 2.3	Valentin Baudouin and Paul Bois	Water Quality Management And The Idea Of Simplicity
15:45		C.P. 2.4	Chiara Esposito , Jensen, S.M., Blaikie F.H., S�hoel H., Konnerup D., Brix, H. & Arias, C.A.	Bioavailability of phosphorus bound to different engineered materials
16:00		C.P. 2.5	Lu Feng and Zhao-Jun Bu	Peatland Characteristic Ecological Factors Affect Sphagnum Spore Persistence
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: G�nter Langergraber	C.P. 10.1	Viraj Shete, Margit K�iv-Vainik , Marco Centa, Danielle Dagenais, Guy B�dard, Jacques Brisson	Effect Of Roadside Vegetation Management On The Quantity And Quality Of Highway Stormwater In Cold Climate Conditions: A Pilot Study
16:45	Stormwater and run-off	C.P. 10.2	Outi Wahlroos , Pasi Valkama, Anna Halonen, Sami Haapanala, Xuefei Liu, Janne Antikainen, Amanda Pero, Anna-Kaisa Kosenius, Mika Rekola, Mari Pihlaja-Kuhna, Kari Rantakokko, Anne Ojala, Timo Vesala and Harri Vasander	Ten years of improving water environment by creating stormwater wetlands in Southern Finland
17:00		C.P. 10.3	Fabio Masi , Riccardo Bresciani, Nicola Martinuzzi, Marco Bernasconi and Anacleto	Treatment Of Combined Sewer Overflow Upstream Centralized Treatment Plants With Nature-Based Solutions: The Constructed Wetland System Of Carimate WWTP Italy
17:15		C.P. 10.4	Delia Ventura , Margherita Ferrante, Chiara Copat, Alfina Grasso, Mirco Milani, Alessandro Sacco, Ruggero Rapisarda, Giuseppe Luigi Cirelli	A Synthetic Stormwater Recipe For Assessing A Pilot Hybrid Constructed Wetland Reliability In Mediterranean Climate
17:30		C.P. 10.5	S. K. M. Bhasha	Ecological crisis and ecological restoration of Pulicat Lake, SPR Nellore District, Andhra Pradesh India

Auditorium 2, Merete Barker. Wednesday 19 June

Wednesday 19 June

Time	Session	Author	Title	
09:45	Sessions (5 talks)		Introduction	
09:50	Chair: Siyuan Ye Special session 10	S.S. 10.1	<u>Peter Mueller</u> , Dirk Granse, Stefanie Nolte, Stefan Hoth, Magdalena Weingartne, and Kai Jensen	Unrecognized Controls On Microbial Functioning In Blue Carbon Ecosystems: The Role Of Mineral Enzyme Stabilization And Allochthonous Substrate Supply
10:05		S.S. 10.2	<u>Thomas J. Mozdzer</u> , Joshua Caplan, Sophie Drew, Paige Weber, and Bridget Reed	Nutrient reduction reverses carbon losses in coastal wetlands
10:20		S.S. 10.3	Guangming Zhao, <u>Siyuan Ye</u> , Xueyang Yu and S. A. McClellan	Soil Organic Carbon Storage Changes In Coastal Wetlands Of The Liaohe Delta, China
10:35	Effects of climate warming on coastal wetland service	S.S. 10.4	<u>Emil Jespersen</u> , Gro H. Kirk, Brian K. Sorrell, Franziska Eller, Siyuan Ye and Hans Brix	Effects of climate warming on coastal wetland vegetation along latitudinal gradient
10:50		S.S. 10.5	<u>Siyuan Ye</u> , Xueyang Yu, Liujuan Xie, Ken W. Krauss, Hans Brix	Warming efficiency of an open-top chamber and its effect on plant morphologica traits across latitude gradients and habitats in the coastal wetlands of Northern China
11:05			Discussion	
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Brian K. Sorrell	C.P.14.1	Gro H. Kirk, Emil Jespersen, Brian Sorrell, Franziska Eller, Siyuan Ye, and Hans Brix	Warming impact on dominating plant species in Chinese coastal wetlands
11:45	Coastal wetlands	C.P.14.2	Gretchen M. Gettel, Susan Namaalwa, <u>Anne A. van Dam</u>	Agricultural conversion of papyrus wetlands leads to loss of denitrification potential, Namatala wetland, Uganda
12:00		C.P.14.3	Juanyong Li, Wendi Qu, <u>Guangxuan Han</u> , Bo Guan	Effects Of Drying-Rewetting Frequency On Vertical And Lateral Loss Of Soil Organic Carbon In A Tidal Salt Marsh: A Laboratory Experiment
12:15		C.P.14.4	<u>Shafi Noor Islam</u>	Salinity Intrusion And Degradation Of Sundarbans Coastal Mangrove Wetland Ecosystem In The Ganges-Brahmaputra-Meghna Delta (Bangladesh)
12:30	Lunch (45 min)			
13:15	Sessions (5 talks) Chair: Steen Nielsen Special session 14		Introduction	
13:20		S.S. 14.1	<u>Alexandros I. Stefanakis</u>	Dewatering Mechanisms in pilot plant sludge treatment beds in the north mediterranean region
13:35		S.S. 14.2	<u>Tom Headley</u>	Considerations in vegetation selection- is there any substitute for Phragmites australis?
13:50		S.S. 14.3	<u>Pascal Molle</u>	Septage treatment by STBR: from mechanisms to design and performance
14:05	Climate effect on the sludge dewatering and mineralization processes im sludge treatment reed bed system	S.S. 14.4	<u>Steen Nielsen</u>	The development of sludge treatment reed bed systems design annd operation under cold and hot climate conditions
14:20		S.S. 14.5	<u>Eleonora Peruzzi</u> , Steen Nielsen, Cristina Macci, Serena Doni, and Grazia Masciandaro	Process of sludge stabilization and nutrient recovery for agricultural purposes of sludge treated in sludge treatment reed beds systems
14:35			Discussion	
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Joan García	C.P.20.1	<u>Gregor Plestenjak</u> , Dominik Vodnik, Nives Ogrinc, Bor Krajnc, Mitja Ferlan, Rok Mihelič, and Klemen Eler	Could The Additional Air Supply Enhance The Decomposition Processes In Sludge Dryin Reed Beds?
15:15	Sludge	C.P.20.2	<u>Mathieu Gautier</u> , Manon Kania, Philippe Michel, Pascal Molle, and Rémy Gourdon	Surface Sludge Deposits Layer: A Key Component In French Vertical Flow Constructed Wetlands.
15:30		C.P.20.3	<u>Zhongbing Chen</u> and Shanshan Hu	Distribution And Bioavailability Of Heavy Metals In Earthworm Assistant Sludge Treatment Wetland
15:45		C.P.20.4	<u>Baiming Ren</u> , Yaqian Zhao, Nathalie Lyczko, and Ange Nzihou	Simultaneous Waste Gas Purification And Wastewater Treatment In A Novel Alum Sludge Based Constructed Wetland
16:00		C.P.20.5	<u>María Alejandra Mainé</u> , Hernán R. Hadad, M. Mercedes Mufarрге, Gisela Di Luca, Gabriela C. Sanchez, Ma.Celeste Schierano, Ma. Cecilia Panigatti, Emanuel Nocetti, Sandra E. Caffaratti, and, Ma.del Carmen Pedro	Wetland Systems For Industrial Effluent Treatment In Argentina
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Ana Galvao	C.P.24.1	<u>Elena Comino</u> , Silvia Barbero, Laura Dominici, Alejandra Leal Restrepo, and Maurizio Rosso	Constructed Wetland Designed with Systemic Approach
16:45	Wetland improvements	C.P.24.2	<u>Marco A. Rodriguez-Dominguez</u> , Carlos A. Arias, and Hans Brix	Constructed Wetlands In Latinamerica, A Summary Of Experience During The Last Decade
17:00		C.P.24.3	<u>Nadine Sossalla</u> , Jaime Nivala, Beate Escher, Thorsten Reemtsma, Rita Schlichting, Manfred van Afferden, and Roland Müller	The Use Of Bioassays To Assess The Treatment Efficacy Of Constructed Wetlands
17:15		C.P.24.4	H.A. Rivas, N.E. Figueroa, <u>M.A. Rodríguez</u> and C.A. Arias	Experiences In O And M Deficiencies Of A Constructed Wetland –Maturation Pond Hybrid Treatment Plant
17:30		C.P.24.5	<u>Mauricio Andres Nevado Amell</u> , Muhammad Awais, Sowmiya Ragul, Kurt Brüggemann, and Tamara Avellan	Attribute Value Extraction Mechanism Of Constructed Wetlands Information Data

Auditorium 2, Merete Barker. Friday 21 June
Friday 21 June

Time	Session	Author	Title	
08:30	Contributed papers (5 talks) Chair: Darja Istenic	<u>Finn Plauborg</u> and Carl Christian Hoffmann	Nitrogen Denitrification In Constructed Wetlands With Woodchips Bioreactor	Contributed Papers 28
08:45	Nutrients	<u>Josefin E. Nilsson</u> , Antonia Liess, Per Magnus Ehde, and Stefan E. B. Weisner	Will Planting Of Surface-Flow Wetlands Improve Nitrogen Removal In The Long Run?	
09:00		<u>Nicolas Maurice</u> , Maïa Durozier, Cécile Pochet, Grégoire Jost, Nouceiba Adouani, and Marie-Noëlle Pons	Nitrogen And Dissolved Carbon Balances In The Azhurev Constructed Wetland	
09:15		<u>Katarzyna Skrzypiec</u> , Marek Swinarski, Przemyslaw Kowal, and Magdalena Gajewska	Removal Processes In Start-Up Period In Hybrid Constructed Wetland For Effluent From Anammox Treatment	
09:30		Del Toro Aarón, <u>Florentina Zurita</u> , Martha P. Sánchez, and Belkis C. Sulbarán	Addition Of Corn Cob In The Free Drainage Zone Of Partially Saturated Vertical Wetlands For Total Nitrogen Removal - A Pilot-Scale Study-	
09:45	Coffee break (15 min)			
10:00	Contributed papers (5 talks) Chair: Margit Kõiv-Vainik	<u>Linda Grinberga</u> , Ainis Lagzdinš	Nutrient mitigation practice in constructed wetlands in Latvia	Contributed Papers 32
10:15	Nitrogen	Ka Yee Lam, Sylvie Nelieu, Pierre Benoit, and <u>Elodie Passeport</u>	Enhancing Triclosan Photodegradation In Wetlands: Effects Of Ph, Dissolved Organic Carbon, And Nitrate Concentration	
10:30		<u>Tournebize J.</u> , Chaumont C., Blandin M., Soosaar K., Hansen R., Muhel M.2, Teemusk A.2, Pärn J., Mander Ü.	Nitrate-Removal Capacity of an Artificial Wetland in a Subsurface-Drained River Basin	
10:45		<u>Joachim Audet</u> and Carl C. Hoffmann	Nitrogen Removal And Nitrous Oxide Emissions In A Sub-Surface Constructed Wetland Treating Agricultural Drainage Water	
11:00		<u>Ewa Wojaiechowska</u>	How to reduce the nutrient loads delivered from small agricultural dominated catchments in northern poland?	

WETPOL2019 - Programme

Tuesday 18 June

Auditorium 3, Eduard Biermann. Tuesday 18 June

Time	Session	Author	Title	
09:45	Sessions (5 talks)	Introduction		
09:50	Chair: Wiktor Kotowski Special session 3	S.S. 3.1	<u>Ewa Jabłońska</u> , Wiktor Kotowski, Mateusz Grygoruk	Ecological Types Of Wetland Buffer Zones – How Landscape Defines Functionality
10:05		S.S. 3.2	<u>Dominik Zak</u> , Craig Walton and Carl Christian Hoffmann	Contrary results of phosphorous, nitrogen and carbon retention - A transient side effect in rewetted peatlands
10:20	Multifunctional wetland buffers: Assessing synergies and constrains between different ecosystems	S.S. 3.3	<u>Claudia Oehmke</u> and Wendelin Wichtmann	Wet agriculture in wetland buffer zones: synergies and constrains between nutrient removal and biomass utilization
10:35		S.S. 3.4	Marek Giergiczny, Sviataslau Valasiuk, Marta Wiśniewska, Ewa Jabłońska and <u>Wiktor Kotowski</u>	Do people prefer ditches over brooks and Creeks? An evidence from DCE valuation exercise of small rivers appearances and ecosystem services
10:50		S.S. 3.5	<u>Marta Wiśniewska</u> and Ewa Jabłońska	Summarizing and upscaling different benefits and costs of wetland buffer zones on the catchment scale
			Discussion	
11:15	Break (15 min)			
11:30	Contributed papers (4 talks)	C.P. 3.1	<u>Yamini Mittal</u> , Asheesh Kumar Yadav	Possibility Of Using High Surface Area Plastic Media In Constructed Wetland
11:45	Wetland media and plants Chair: Franziska Eller	C.P. 3.2	Henning Schroeder, Anna-Lena Fabricius, Dennis Ecker and <u>Lars Duester</u>	Mobility Of Elements - Lessons Learned From Four Years Profiling Sediment Water Interfaces
12:00		C.P. 3.3	<u>Fulvio Boano</u> , Alice Caruso, Elisa Costamagna, Silvia Fiore, Francesca Demichelis, Luca Ridolfi, Ana Galvao, Joana Pisoeiro, Anacleto Rizo, and Fabio Masi	Sustainable Treatment Of Domestic Greywater By Green Walls For Reuse
12:15		C.P. 3.4	<u>Dennis Konnerup</u> and Ole Pedersen	Flooding tolerance in wetland plants - The effect of leaf gas films
12:30	Lunch (45 min)			
13:15	Sessions (5 talks)	Introduction		
13:20	Chair: Ülo Mander (Chair) Special session 7	S.S. 7.1	<u>Ülo Mander</u> , Thomas Schindler, Kateřina Macháčková, Alisa Krasnova and Kaido Soosaar	Annual CO ₂ , CH ₄ and N ₂ O balances of a riparian grey alder forest
13:35		S.S. 7.2	<u>Julien Tournebize</u> , Cedric Chaumont, Ülo Mander	Principles for constructed wetland and riparian buffer zones in agricultural catchments
13:50	Wetlands and Buffer zones Mitigating water Pollution and Climate Change	S.S. 7.3	BingBing Jiang and <u>William J. Mitsch</u>	Nutrient retention by floodplain mesocosm wetland over two year in a hydrologic experiment adjacent to a eutrophic lake in the Ohio River Basin
14:05		S.S. 7.4	Sandrine Papias, Stéphanie Prost-Boucle, Ania Morvannou, Matthieu Masson, Nicolas Forquet, Jean Marc Choubert, <u>Catherine Boutin</u>	Nutrient reduction in constructed wetland receiving treated wastewater
14:20		S.S. 7.5	<u>Dominik Zak</u> , Carl Christian Hoffmann, Mette Vodder Carstensen, Joachim Audet, Brian Kronvang and Charlotte Kjaergaard	The Danish Concept To Mitigate Nutrients In Drainage Discharge: Four New Options.
14:35			Discussion	
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair Otto Stein	C.P. 7.1	<u>Columba Martínez-Espinosa</u> , Mélanie Raimonet, Sabine Sauvage, Filipe Aires, Ahmad Albitar, Marie Parrens and José Miguel Sánchez-Pérez	Nitrogen Outgassing (N ₂ , N ₂ O) By Denitrification In Wetland Ecosystems Worldwide: A Modeling Approach.
15:15	GHG and Emissions	C.P. 7.2	<u>Qlan Cui</u> , Changchun Song	Warming Effects On N ₂ O Fluxes In A Boreal Peatland Of Permafrost Region, Northeast China
15:30		C.P. 7.3	<u>Mohit Masta</u> , Jaan Pärn, Kalle Kirsimäe and Ülo Mander	Fluctuating Groundwater Table Enhances N ₂ O Emission From Incomplete Denitrification In A Floodplain Fen
15:45		C.P. 7.4	<u>Krzysztof Fortuniak</u> , Włodzimierz Pawlak, Mariusz Siedlecki	Long-term eddy covariance mesuarments of green house gases fluxes (CO ₂ , Ch ₄ , H ₂ O) of temparate mire in Central Europe (Biebrza National Park)
16:00		C.P. 7.5	<u>Keit Kill</u> , Jaan Pärn, Ülo Mander and Kuno Kasak	Greenhouse Gas Emissions And Nutrient Reduction In A Surface Flow Constructed Wetland Treating Agricultural Diffuse Pollution.
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Shubiao Wu	C.P. 11.1	<u>Laura Flores</u> , Joan García, Rocío Pena, Marianna Garfi	Constructed Wetlands Release Less Greenhouse Gas Emissions Than Activated Sludge: A Key Point For Their Implementation In The Wine Sector
16:45	Industrial treatment	C.P. 11.2	<u>Rocio Pena</u> , Santiago Gomez, Ana Pascual, Cristina Ávila, Luz Herrero & Juan A. Alvarez	Constructed Wetlands In Wineries: Wetwine Project
17:00		C.P. 11.3	<u>Cristina Ávila</u> , Santiago Gómez-Cuervo, David de la Varga, Juan Antonio Álvarez, Luz Herrero and Ana Pascual	Integrated Treatment Of Distillery Wastewater Through Constructed Wetlands
17:15		C.P. 11.4	Ángel Gallegos, Lorena Aguilar, Carlos A. Arias, Eva Fores, Carme Bosch, Maria Verdum, Patricia Jové, Joan de Pablo, <u>Jordi Morató</u>	Cork's byproduct used as filter medium in an automated treatment wetland for winery wastewater treatment.
17:30		C.P. 11.5	Sudha Kiran Banda, Gangadhara Reddy Dontireddy, <u>Sravan Banda</u> , <u>Scott Wallace</u>	Evaluation Of Wetland Construction, Treatment And Management: A Case Study Of Cherlapally Industrial Area, Hyderabad, India

Auditorium 3, Eduard Biermann. Wednesday 19 June

Wednesday 19 June

Time	Session	Author	Title	
09:45	Sessions (5 talks)	Introduction		
09:50	Chair: Alexandros Stefanakis Special session 11	S.S. 11.1	Steen Nielsen Sludge treatment reed bed technology under hot and arid climate	Special session 11
10:05		S.S. 11.2	James S. Bays and Raphael Vazquez-Burney The aquifer recharge and recovery project: integrated reservoir, wetland and sand filter for natural treatment of mine stormwater	
10:20		S.S. 11.3	Jaime Nivala, Thomas Aubron , Johannes Boog, Stephane Prigent, Manfred van Afferden, Roland A. Müller Treatment wetlands in arid climates: New pilot-scale results and experiences with full scale systems in Jordan	
10:35	Constructed wetlands projects under hot and arid climates	S.S. 11.4	Frank van Diem Constructed wetlands for horticulture wastewater treatment in Ethiopia: An overview	
10:50		S.S. 11.5	Alexandros Stefanakis Constructed wetlands for municipal and industrial wastewater treatment in the Middle East: an overview	
11:05			Discussion	
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Maria Alejandra Maine	C.P.15.1	James S. Bays , James Gorham, Sharook Madon, and Jeff Smith Reflections In A Desert Spring: Planning And Implementation Of Constructed Wetlands In Arid Southern California	Contributed Papers 15
11:45	Tropical wetlands	C.P.15.2	Ismael Vera-Puerto , Hugo Valdés, Christian Correa, Roberto Agredano, Jorge Olave and Carlos Arias Constructed Wetlands And Effluent Reuse In Irrigation For Latin American Countries: Analysis And Brief Answer From Chile For Arid Climates	
12:00		C.P.15.3	Bismark Dwumfour-Asare , Kwabena B. Nyarko, Helen M.K. Essandoh, and Esi Awuah Microcosm Design Of Indigenized Onsite Constructed Wetland For Greywater Treatment In Ghana	
12:15		C.P.15.4	Priyanka Sarkar and Tapati Das Understanding the differential role of biophysical components of floodplains in water purification: a case study of a tropical floodplain wetland in Barak River Basin, northeast india	
12:30	Lunch (45 min)			
13:15	Contributed papers (6 talks) Chair: Carlos A. Arias	C.P.17.1	Mirco Milani, Alessia Marzo , Simona Consoli, Alessandra Pino, Cinzia Randazzo, and Giuseppe Luigi Cirelli Performance Of Different Substrates In Vertical Subsurface Flow Constructed Wetlands	Contributed Papers 17
13:30	Vertical flow CWs	C.P.17.2	Philipp Otter , Stefan Hertel, E. L. Corona, Peder S. Gregersen, Juan A. Álvarez Rodríguez, C. Arias Combination Of VFCW And Solar Driven Electro-Chlorination For Safe Wastewater Reuse In Spain	
13:45		C.P.17.3	Ying Wang , Linya Shen, Juan Wu, Shuiping Cheng Step Feeding Ratios Affect Nitrogen Removing Communities In A Multi-Stage Vertical Flow Constructed Wetland	
14:00		C.P.17.4	Kevin Maciejewski , Mathieu Gautier, Manon Kania, Camille Banc, Philippe Michel, Pascal Molle and Rémy Gourdon Challenges In Nitrogen Removal In French Vertical-Flow Constructed Wetlands	
14:15		C.P.17.5	Sebastian Rodriguez Vasquez , Jérôme Viguier, Mathieu Sperandio, and Florent Chazarenc Effect Of Organic And Hydraulic Loading Increase On Treatment Performance Of French System Constructed Wetlands	
14:30		C.P.17.6	Jun Zhai, Jixia Yan Performance Evaluation Of Pilot-Scale Saturated Vertical Upflow Constructed Wetland: Effects Of Different Operational Conditions	
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Alexandros Stefanakis	C.P.21.1	Magda Kasprzyk, Krzysztof Czerwionka, and Magdalena Gajewska Assessment Of Sorption Materials For P-Removal Toward Circular Economy	Contributed Papers 21
15:15	Phosphorus removal	C.P.21.2	Ania Morvannou , Matthieu Masson, Mathieu Gautier, Catherine Boutin and Nicolas Forquet Fate Of Phosphorous And Clogging In Soil-Based Constructed Wetlands	
15:30		C.P.21.3	David Austin , Lauren Chamblin, and Rafael Vazquez-Burney Geochemical Augmentation For Phosphorus Treatment: Results From A 55 Mld Pilot Study	
15:45		C.P.21.4	Laura Delgado , Stéphane Troesch, and Pascal Molle Phosphorous Retention In Granulated Apatite: An Assess Of Maximum Saturation Level, Kinetics And Reaction Mechanisms	
16:00		C.P.21.5	Sandrine Papias , Marina Coquery, Catherine Boutin, Lysiane Dherret, Matthieu Masson, Clément Crétollier, and Jean-Marc Choubert What Is The Fate Of Trace Metals And Phosphorus In Cw Receiving Treated Wastewater? Contributions Of Free Water, Plants And Soil	
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Magdalena Gajewaska	C.P.25.1	David Austin , Mark Madison, Jade Mecham, and Rob Collison Biosolids filtrate nitrogen management in a Tidal flow zeolite bed: Ammonium Adsorption, nitrification, and anammox	Contributed Papers 25
16:45	P removal	C.P.25.2	S.M. Jensen , H. Blaikie, H. Soehoel, J.A. Alvarez, H. Brix, and C.A. Arias Newly Developed Materials For Phosphorus Removal, Recovery And Reuse From Treatment Wetlands	
17:00		C.P.25.3	François Cornet , Elodie Varennes, Karine Carlier, Karin Barthelet, and Pascal Molle Iron-Enriched Alumina As An Adsorbant Media For P-Removal And Recovery From Treatment Wetland'S Effluents	
17:15		C.P.25.4	J. Petkuvienė , M. Zilius, I. Vybernaite-Lubiene, T. Politi, A. Skersonas, and N. Nika Effectiveness of wetland system to retain nutrients: case study of Smitelele stream (Lithuania)	
17:30		C.P.25.5	Thomas V. Wagner , Muhamad Mutaqin, Gita Putri, Julia Opdam, Vinnie de Wilde, Bert Willemsen, John Parsons, Alette Langenhoff, Pim de Voogt and Huub Rijnaarts Pilot Hybrid constructed wetlands for colling tower water treatment	

Auditorium 3, Eduard Biermann. Friday 21 June

Friday 21 June

Time	Session	Author	Title	
08:30	Contributed papers (5 talks) Chair: Tom Headley	<u>Galen Fulford</u> , Stuart Alexander, and Phil Nicodemus	The Evolution Of Floating Wetland Systems As A Tool To Achieve Ecosystem Services In Heavily Modified Urban Waterbodies.	Contributed Papers 29
08:45	Floating systems	<u>Eugenia J. Olguín</u> , Gloria Sánchez-Galván, Francisco J. Melo, Víctor J. Hernández, Ricardo E. González-Portela, and Irma Ciaudelli	Flow rate is a determinant factor in the efficiency of floating treatment wetlands for microcystins and pollutant removal in the field scale	
09:00		Jan Ruppelt, <u>Katharina Tondera</u> , Jos H. M. Schippers, Joost T. van Dongen, and Johannes Pinnekamp	Efficiency of floating treatment wetlands to treat highway runoff	
09:15		<u>Cheng Shen</u> , Yaquin Zhao, Yan Yang, Cheng Tang and Yi mao	Effects of drinking water treatment residual and iron sulfide involvement in floating treatment wetlands for secondary effluent treatment	
09:30		<u>Chaumont C.</u> , Tournebise J., Lebrun J., Birmant F., Roger L., Mander U.	Temporal variability of pesticide removal for artificial wetland receiving agricultural drained water	
09:45	Coffee break (15 min)			

WETPOL2019 - Programme

Auditorium 4, Jeppe Vontillius (SWS Session). Tuesday 18 June

Tuesday 18 June

Time	Session	Author	Title	
09:45	Sessions (5 talks)	Introduction		
09:50	Jos T.A. Verhoeven (Chair) Special session 4	S.S. 4.1	<u>Henine Hocine</u> , Chelil Samy, Vincent Bernard, Tournebize Julien.	A New Method To Quantify The Impact Sub-Surface Drainage In Wetlands.
10:05		S.S. 4.2	<u>Jan H. Janse</u> , Jeroen J.M. de Klein, Anne A. van Dam, Edwin M.A. Hes, Jos T.A. Verhoeven	Outline of a global model for wetlands ecosystem services
10:20	SWS symposium on wetlands and ecosystems services:	S.S. 4.3	<u>Jos T.A. Verhoeven</u>	Restoration Of Species-Rich Fen Landscapes In The Netherlands
10:35	Water quality improvement, climate regulation and flood control	S.S. 4.4	<u>Keith R. Edwards</u> , Jiří Bárta, Eva Kaštovská and Tomáš Píček	Effects Of Multiple Environmental Factors On The Plant-Soil-Microbe System In Wet Grasslands: A Mesocosm Study
10:50		S.S. 4.5	<u>Robert J. McInnes</u> , Hiromi Yamashita, Naoyuki Mikami and Mark Everard	Where Have All The Cows Gone? The Public Perception Of Creating And Restoring Coastal Wetlands
			Discussion	
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Tenna Riis	C.P. 4.1	<u>Sen Gu</u> , Gérard Gruau, Rémi Dupas, Antoine Casquin, Patrice Petitjean, Anne Jaffrézic, and Sophie Moisan	Assessing The Risk Of Phosphorus Loss From Wetland Soils
11:45	Streams and soils	C.P. 4.2	<u>Ada Pastor</u> , Olatz Pereda, Eya E. L. Sandvej-Larsen, Pau Giménez-Grau, Louis J. Skovsholt, Paraskevi Manolaki, Arturo Elosegui, Tenna Riis	The Role Of Macrophytes As Sources Of Dissolved Organic Matter In Lowland Streams
12:00		C.P. 4.3	<u>Manolaki Paraskevi</u> , Sofie Møller Rasmussen, Caroline Urup Byberg, Benita Hyldgaard, Brian K. Sorrell, Franziska Eller, and Tenna Riis	Morphological Traits And Physiological Performance Of Amphibious Species In Relation To Nutrient Levels And Light Exposure.
12:15		C.P. 4.4	Olatz Pereda, Ada Pastor ² , Pau Giménez-Grau ² , Eya E. L. Sandvej-Larsen ² , Louis J. Skovsholt ² , Paraskevi Manolaki ^{2,30} , Annette Baatrup-Pedersen ² , Arturo Elosegui ¹ , <u>Tenna Riis</u>	The Effects Of Weed Cutting Practices On Nutrient Retention And Metabolism In Lowland Agricultural Streams
12:30	Lunch (45 min)			
13:15	Sessions (5 talks)	Introduction		
13:20	Chair: Matt Moore Special session 8	S.S. 8.1	<u>Jason M. Taylor</u> , Matthew T. Moore and Rachel L. Nifong	Exploring the role of wetland vegetation in enhancing nutrient removal with agricultural ditches
13:35		S.S. 8.2	<u>Elisa Soana</u> , Elisa Anna Fano, and Giuseppe Castaldelli	An ounce of prevention is worth a pound of cure: Managing macrophytes for nitrate mitigation in aggregated agricultural watersheds
13:50		S.S. 8.3	<u>Joan Garcia</u> , Alessandro Solimeno, Li Zhang and William J. Mitsch	Constructed Wetlands Multiphysics Simulation Design Tool For Phosphorus Pollution Prevention In The Everglades, Florida
14:05	SWS symposium	S.S. 8.4	C. Hernández-Crespo, L. Moreno, M. Lassalle, M.C. Regidor, P. Vera, M.A. Rodrigo and <u>M. Martín</u>	Improving Water Quality And Biodiversity: Then Years Of Experience In Constructed Wetland Tancat De La Pipa, Albufera De Valencia Natural Park, Spain.
14:20		S.S. 8.5	<u>Mirco Bundschuh</u> , Ralf Schulz	Fungicide risk mitigation in agricultural landscapes - The role of vegetated treatment systems
14:35			Discussion	
14:45	Coffee break (15 min)			
15:00	Contributed papers (4 talks) Chair: Leonardo Vera	C.P. 8.1	<u>Lauren N. Griffiths</u> and William J. Mitsch	Nutrient Retention Via Vegetative Uptake And Sedimentation In Created Wetlands In Subtropical Florida
15:15	Warm climate wetlands	C.P. 8.2	<u>Katharina Tondera</u> , Florent Chazarenc and Pascal Molle	Bioaugmentation of French System with mychorized <i>Phragmites</i>
15:30		C.P. 8.3	<u>Lin-Hui Su</u> , Sai Wang, Lin Wang, Yu Zheng and Yang Yang	Application of mass-balance modelling to assess the effects of ecological restoration on energy flows in a subtropical reservoir, China
15:45		C.P. 8.4	Gabriela Guachamín, Cristina Elizabeth Almeida and <u>Cristina Alejandra Villamar</u>	Start-Up Of Sub-Surface Constructed Wetlands Using <i>Heliconia stricta</i> Treating Domestic Wastewater Under Highlands Tropical Conditions
16:00			Discussion	
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Carlos A. Ramirez	C.P. 12.1	<u>Bernhard Pucher</u> , Daniela Locher, Christine Stumpp, Günter Langergraber	Experimental Investigation In Change Of Soil Hydraulic- And Transport Parameters In Vf Sand Filters Due To Bioclogging Using Real Wastewater To Support Clogging Model Development
16:45	Operation and Maintenance	C.P. 12.2	<u>Feliciana Licciardello</u> , Massimo Iovino, Delia Ventura, Alessandro Sacco and Giuseppe Cirelli	Evaluation Of Different Measurement Techniques To Investigate The Clogging Phenomenon In Constructed Wetlands
17:00		C.P. 12.3	<u>Nicolas Forquet</u> , Ania Morvannou	Preferential Flows In Treatment Wetlands
17:15		C.P. 12.4	<u>Ana Galvão</u> , Joana Pisoeiro and Helena Pinheiro	Respirometry In Biofilms From Sub-Surface Flow Constructed Wetlands: The Relevance Of Storage Mechanisms
17:30		C.P. 12.5	M. Fernandez-Gatell, M. Hartl, and <u>J. Puigagut</u>	Bacterial Activity And Biomass Assessment In Constructed Wetlands Based On The Electric Signal Of Microbial Fuel Cells
18:30	SWS Business Meeting			

Auditorium 4, Jeppe Vontillius (SWS Session). Wednesday 19 June

Time	Session	Author	Title	
09:45	Sessions (5 talks) Special session 12 Chair: Abraham Esteve	Introduction		Special session 12
09:50	S.S. 12.1	<u>Amanda Prado de Nicolás</u> , Carlos A. Ramirez-Vargas, Carlos A. Arias, and Abraham Esteve-Núñez	A Novel Device To Increase The Electron Sink In Metlands	
10:05	S.S. 12.2	<u>Yaqian Zhao</u> , Lei Xu	Microbial Fuel Cell-Constructed Wetland: Some Foreseeable Research Directions	
10:20	S.S. 12.3	<u>Carlos A. Ramirez-Vargas</u> , Carlos A. Arias, Pedro Carvahlo, and Hans Brix	Electric Potential in Electroactive Biofilm-based Constructed Wetlands: current flow density as a performance indicator	
10:35	Electroactive Bacteria Based Treatment S.S. 12.4	<u>Marco Hartl</u> , María Jesús García, Victor Matamoros, Marta Fernández Gatell, Diederik P.L. Rousseau, Gijs Du Laing, Marianna Garfí and Jaume Puigagut	Emerging Contaminants Removal In Constructed Wetlands Operated As Bioelectrochemical Systems	
10:50	S.S. 12.5	<u>Rauno Lust</u> , Kuno Kasak, Jaak Nerut, and Ülo Mander	Microbial Electrosynthesis Cells For The Enhancement Of Purification Processes In Treatment Wetlands	
11:05	Discussion			
11:15	Break (15 min)			
11:30	Contributed papers (4 talks) Chair: Arantxa Aguirre	C.P.16.1	<u>Barbero, M., Diez, R. and Puigagut, J.</u>	Contributed Papers 16
11:45	Microbial Fuel cells Chair : Arantxa Aguirre-Sierra	C.P.16.2	<u>Yi Mao</u> , Yaqian Zhao, Cheng Tang, Chun Kang, and Yan Yang	
12:00		C.P.16.3	<u>Cheng Tang</u> , Yaqian Zhao, Chun Kang, and Yan Yang	
12:15		C.P.16.4	<u>K.M. Pratiksha Srivastava</u> , Rouzbeh Abbassi, Vikram Garaniya, Trevor Lewis, and Asheesh Yadav	
12:30	Lunch (45 min)			
13:15	Contributed papers (6 talks) Chair: Yaqian Zhao	C.P.18.1	<u>Yan Yang</u> , Yaqian Zhao, Cheng Tang, Yi Mao1, and Cheng Shen	Contributed Papers 18
13:30	EAB-CW technology Chair: Yaqian Zhao	C.P.18.2	<u>Lorena Peñacoba Antona</u> , Montserrat Gómez Delgado, and Abraham Esteve Núñez	
13:45		C.P.18.3	<u>Arantxa Aguirre-Sierra</u> , Juan José Salas, Antonio Berná, Carlos Manchón, Abraham Esteve-Núñez	
14:00		C.P.18.4	<u>C.R. Allen, E.G. Lauchnor, N. Forquet, C.A. Zabinski, E. Raeside, O.R. Stein</u>	
14:15		C.P.18.5	<u>Abraham Esteve-Núñez</u>	
14:30		C.P.18.6	<u>María G. Salinas-Juárez</u> , Saira I. Ortiz Zamoras, and M.Carmen Durán-Domínguez	
14:45	Coffee break (15 min)			
15:00	Contributed papers (5 talks) Chair: Cristina Avila	C.P.22.1	<u>Shubiao Wu</u>	Contributed Papers 22
15:15	Nitrogen removal	C.P.22.2	<u>Jing Huai</u> , Juan Wu, Fei Zhong, and Shuiping Cheng	
15:30		C.P.22.3	<u>Pham Le Anh, Julien Laurent, Paul Bois, and Adrien Wanko</u>	
15:45		C.P.22.4	<u>Cédric Chaumont, Manon Blandin, Ülo Mander, Kaido Soosaar, Jaan Pärn, and Julien Tournebize</u>	
16:00		C.P.22.5	<u>Elisangela Heiderscheidt</u> , Uzair Akbar Khan, Heini Postila, Katharina Kujala, Anna-Kaisa Ronkanen	
16:15	Break (15 min)			
16:30	Contributed papers (5 talks) Chair: Gijs Du Laing	C.P.26.1	<u>Chris Kinsley</u> , Kevin Kennedy, and Anna Crolla	Contributed Papers 26
16:45	Metals	C.P.26.2	<u>Juan Wu</u> , Yangyu Song, and Shuiping Cheng	
17:00		C.P.26.3	<u>Wendkuuni F. Compaore</u> , Ann Dumoulin, and Diederik P. L. Rousseau	
17:15		C.P.26.4	<u>Sepideh Kiani</u> , Mirkka Hadzic, Elisangela Heiderscheidt, Kaisa Heikkinen, Satu-Maaria Karjalainen, Anne Korhonen, Katharina Kujala, Kaisa Lehosmaa, Heini Postila, Ritva Nilivaara-Koskela, Anna Maria Pirttilä, Anna-Kaisa Ronkanen, Anna Liisa Ruotsalainen, and Piippa Wäli	
17:30		C.P.26.5	<u>Jingjing Du</u> , Yuyan Zhang, Mingxiang Qv	

Auditorium 4, Jeppe Vontillius (SWS Session). Friday 21 June

Friday 21 June

Time	Session	Author	Title		
08:30	Contributed papers (4 talks) Chair: John White Wetlands, peatlands and modelling	C.P 30.1	<u>Rafael Vázquez-Burney</u> and Jeffrey Harris	The 4G Ranch Wetlands Recharge Aquifers: 2 Years Of Operation	
08:45		C.P 30.2	Ruth Stephenson, Craig Sheridan, <u>Uwe Kappelmeyer</u> , and Charis Harley	Development Of A Residence Time Distribution Technique Combined With The Constructed Wetland Model 1.	
09:00		C.P 30.3	<u>Sara Phelps</u> and Angelique M. K. Bochnak	A framework for an ecological-economic restoration validation model	
09:15		C.P 30.4	<u>Vittoria Giannini</u> , Enrico Bonari, Eleonora Peruzzi, Serena Doni, Cristina Macci, Grazia Masciandaro, and Nicola Silvestri	The Effects Of Different Restoration Strategies On Topsoil Conditions In A Drained Mediterranean Peatland (Italy)	
09:30		Discussion			
09:45	Coffee break (15 min)				

Contributed Papers 30