

SYMPOSIUM PRESENTATIONS (preliminary list)

KEYNOTE PRESENTATIONS

9 keynote papers

Brix, Headley (co-author)	The role of macrophyte-derived organic carbon for denitrification in treatment wetlands	Denmark
Craft	Tidal marshes and climate change	USA
Dise	Atmospheric deposition, microbial cascades and ecosystem responses	UK
Freeman	Molecular and microbial advances in wetland research	UK
Kadlec	Comparison of free water and horizontal subsurface wetlands to treat nutrients and pollutants	USA
Mander, Nõges, Kimmel (co-author)	Wetlands and lakes in Estonia: an overview	Estonia
Mitsch	Restoration of coastal and riverine wetlands	USA
Nriagu	Dynamics of heavy metals in wetlands	USA
Verhoeven JTA, Soons (co-author)	Wetland restoration for biodiversity or environmental quality: Landscape considerations	The Netherlands

ORAL PRESENTATIONS IN PARALLEL SESSIONS

128 oral presentations in 4 parallel sessions

N, P, C cycling in wetlands

Constructed wetlands

23

Bavor	Spatial linked factors and nitrogen transformation in horizontal and vertical flow constructed wetland systems	Australia
Fonder, Xanthoulis	Pollutant cycling and removal processes within a subsurface horizontal flow constructed wetland	Belgium
Gouriveau, Heal, Russell, Vinten	Constructed Farm Wetlands (CFW) for remediation of farmyard runoff: An evaluation of their water treatment efficiency, ecological value and cost-effectiveness	UK
Headley, Tanner, Fabry	Vertical flow wetlands for sewage treatment: Effect of loading rate, plants and media size	Australia, New Zeal., France
Kadlec, Pries, Phillips	Lagoon effluent polishing in a FWS treatment wetland at Brighton, Ontario	USA, Canada
Kantawanichkul, Kladprasert, Brix	The performance of unsaturated vertical flow constructed wetlands treating high COD and nitrogen wastewater	Thailand, Denmark
Kato, Koba, Ietsugu, Saigusa, Yanagya, Inoue,	First year performance of a real-scale hybrid wetland system for the treatment of dairy wastewater in a cold climate in Japan	Japan
Kitagawa, Kobayashi	Phosphorus removal by hydrated calcium-rich ash in experimental soil filters	Estonia
Kõiv, Vohla, Mõtlep, Liira,		
Mander, Kirsimäe		
Korkusuz, Langergraber	Nitrogen removal performance of natural and artificial filter substrates used as media in vertical flow filters	Turkey, Austria
Kurup	Dynamics of nitrogen removal from meat processing effluent using experimental sub-surface flow constructed wetlands	Australia
Maltais-Landry, Maranger, Brisson	Effect of artificial aeration and macrophyte species on nitrogen cycling and gas flux in constructed wetlands	Canada
Mayes, Younger, Batty, Large	Caustic/vitriolic: Wetland treatment at extremes of pH	UK

Nivala, Brandt, Williams	Proactive operations and maintenance (O&M) of cold-climate subsurface flow constructed wetland treatment systems	USA
Nurk, Truu, Zaytsev, Põldvere, Noorvee, Karabelnik, Maddison, Nikopensius, Mander	Nutrient accumulation and microbial parameters in LWA-based hybrid constructed wetlands	Estonia
Rousseau, Santa	Quantification of oxygen transfer pathways in horizontal subsurface-flow constructed wetlands	The Netherlands
Schultz, Stein, Hook	Temperature and organic loading rate effects in model treatment wetlands	USA
Søvik, Mørkved	Use of stable nitrogen isotope fractionation to estimate denitrification in small constructed wetlands treating agricultural runoff	Norway
Thiere, Stadmark, Weisner	Retention capacity achievements versus climate gas emission by constructed agricultural wetlands	Sweden
Van de Moortel, De Bel, Lesage, Tack, De Pauw	Treatment of combined sewer overflows: Surface versus subsurface flow constructed wetlands	Belgium
Vereijken, Verhagen, van der Werf	Reed filters for surface water sanitation and biomass production	The Netherlands
Vymazal, Kröpfelová	The removal of organics and suspended solids in HF constructed wetlands in the Czech Republic: 15 years of experience	Czech Republic
Wallace, Liner, Redmond, Hildebrand	Oxygen transfer efficiency in aerated subsurface flow wetlands	USA
Williams, Cooper	Evaluation and review of methods for the assessment of sludge build up in sub-surface horizontal flow reed bed treatment systems	UK
Natural and semi-natural wetlands		8
Craft, Clough, Ehman, Park	Effects of accelerated sea level rise on C, N and P retention by tidal marshes: A landscape simulation	USA
Ellis, Freeman	Export of carbon from peatlands under a changing climate	UK
Fenner, Freeman	Interactive effects of elevated CO ₂ and warming on peatland DOC release	UK
Laas, Nõges	Long-term changes of N and P retention in Lake Võrtsjärv, the influence of catchment processes and climate	Estonia
Ostle, Ward, Bardgett, McNamara	Plant functional groups and peatland ecosystem carbon dynamics	UK
Pihlak, Nõges	Changes in the nutrient loading and retention of large transboundary Lake Peipsi from the 1990s to the 2000s	Estonia
Rücker, Schrautzer	Nutrient balances based on high frequency measurements in a small lowland stream	Germany
Saito, Onodera, Ishitobi, Kim, Taniguchi	Nutrient transport in an extensive tidal flat with great tidal variation in South Korea	Japan, Korea
Redox-sensitive processes and N, P & C cycling in wetlands		5
Austin, Wallace	Energy requirements for nitrification and biological nitrogen removal in engineered wetlands	USA
Cabezas, Comin	Carbon and nitrogen sequestration in the middle Ebro floodplains (NE Spain)	Spain
Kruk, Podbielska	Biogeochemical factors influencing C:P and N:P stoichiometry in types of <i>Sphagnum</i> bog vegetation under elevated N deposition	Poland
Zhou, Nakashimada, Hosomi	Nutrient polluted river water treatment and biomass production using hybrid wetland systems with forage rice in Japan	Japan
Zhou, Wang, Wang, Yin	The littoral zone as the dominant area for internal nitrogen removal in eutrophic Taihu Lake	China

Functioning of plants in wetland ecosystems

Chazarenc, Gagnon, Comeau, Brisson Desmet, Belleghem, Seuntjens, Meire Konnerup, Koottatep, Brix	Biofilm accumulation and activity in constructed wetlands: effect of artificial aeration and plant species About quantifying the contribution of plant uptake to nutrient retention: the example of a vegetated river Use of <i>Helicornia</i> and <i>Canna</i> lilies in tropical constructed wetlands	11 Canada Belgium Thailand, Denmark UK
Mackenzie, McInnes, Fisher, Buckton, Millet	Plant species diversity enhances remediation efficiency and increases wildlife potential within treatment wetlands	UK
McNamara, Ward, Chamberlain, Ostle, Chen, Dumont, Bodrossy, Murrell Pierobon, Bolpagni, Bartoli, Viaroli	Influence of plant diversity on CH ₄ processes and populations in a UK peatland ecosystem <i>Trapa natans</i> L. mediated CO ₂ and CH ₄ emission from an oxbow lake	UK, Austria Italy
Sepp, Ilomets	The effect of phosphorus on the growth and chlorophyll fluorescence of the peat moss <i>Sphagnum magellanicum</i> Brid.	Estonia
Tanner, Sorrell, Sukias	Comparison of wetland plant root-zone oxygen release rates measured using a standardised titanium citrate assay	New Zealand
Taylor, Stein, Zabinski, Hook	Choosing plant species to optimize aerobic processes in wastewater treatment wetlands	USA
Wang, Prudent, Périssol, Baldy, Bonin, Korboulewsky	Sewage sludge purification efficiencies in vertical-flow wetland system: is the plant species important?	France
Weisner, Bastviken, Thiere, Ehde, Tonderski	Influence of alternative states on nitrogen removal in experimental wetlands	Sweden

Molecular/microbial advances in wetland research

Arroyo Hernández, Rubio, Martínez, González, Calabuig, Sáenz de Miera	Comparative analysis of the bacterial community composition in a full-scale pilot plant constructed wetland for municipal wastewater treatment, a pilot plant treating metal polluted water and a pilot scale plant for swine wastewater treatment	10 Spain
Davies, Cabrita, Ferreira, Carias, Novais, Martins-Dias	Integrated study of the role of <i>Phragmites australis</i> in azo-dye treatment in a constructed wetland: from pilot to molecular scale	Portugal
Imfeld, Zeiger, Estop, von Eckstädt, Richnow, Weber	Assessment in situ biodegradation of trans- and cis-dichloroethene in groundwater treated in a laboratory-scale constructed wetland	Germany
Jones, Freeman, Lloyd, Williamson, Mills Kängsepp, Truu, Juhanson	Impacts of elevated atmospheric ozone on peatland carbon cycling The investigation of microbial community structure along a leachate treatment system based on filter-bed technology	UK Estonia
Milenkovski, Thiere, Samuelsson, Weisner, Berglund, Lindgren	Denitrification in constructed wetlands in Southern Sweden	Sweden
Sleytr, Tietz	Microbial diversity in constructed wetlands: A comparison between different systems via T-RFLP	Austria
Sundberg, Tonderski, Lindgren	High taxonomic diversity of ammonia oxidising bacteria in overland flow areas treating landfill leachates	Sweden
Weber, Legge	Taking constructed wetland research into the laboratory	Canada
Welker, Wozniak	The influence of different filter sands on the purification capacity and oxygen digestion in vertical flow constructed wetlands for CSO treatment	Germany, Poland

Heavy metals and metalloids in wetlands

Constructed wetlands

Dudel, Aretz, Dienemann, Mkandawire, Weiske, Dienemann, Brackhage	Significance of biomass quality and plant surface for metal and metalloid immobilisation in wetlands	4	Germany
Lesage, Rousseau, Van de Moortel, Tack, De Pauw	Removal of heavy metals in constructed wetlands for treatment of domestic wastewater in Flanders, Belgium		Belgium, The Netherlands
Paulo, Pratas, Rodrigues	Aquatic plants for uranium reclamation in constructed wetlands		Portugal
Vymazal, Kröpfelová, Švehla, Chrástný	Heavy metals and other risk elements in <i>Phragmites australis</i> growing in constructed wetlands for the treatment of municipal wastewater		Czech Republic

Natural and semi-natural wetlands

Acquavita, Covelli, Predonzani, Piani, De Vittor	Anthropogenic inputs of mercury in a Northern Adriatic lagoon environment	9	Italy
Alarcon Herrera, Martín Domínguez, Benavides	Potential of arsenic removal in constructed wetlands		Mexico
Almeida, Mucha, Delgado, Caçador, Bordalo, Vasconcelos	Influence of mixed contaminants in the rhizoremediation potential of <i>Halimiones portulacoides</i>		Portugal
Du Laing, Tack, Verloo	Factors affecting metal concentrations in reed plants (<i>Phragmites australis</i>) of intertidal marshes in the Scheldt estuary (Belgium)		Belgium, The Netherlands
Lettens, Vandecasteele, Quataert, De Vos, Vanden Broeck	Growth and heavy metal uptake of poplar and willow species on river banks under freshwater tidal or seasonal flooding		Belgium
Rinklebe, Staerk, Wennrich, Neue	Dynamics of arsenic in floodplain soils at the Elbe River		Germany
Ukonmaanaho, Nieminen, Rausch, Shotykhin	Does a heavy metal load affect organic matter accumulation in ombrotrophic peat bogs – a case study in Finland		Finland, Germany
Válega, Lillebø, Caçador, Pereira, Duarte, Pardal	Mercury mobility in a salt marsh colonised by <i>Halimiones portulacoides</i>		Portugal
Veretennikova	Features of the biogeochemistry of heavy metals of an oligotrophic bog in the southern taiga of Western Siberia		Russia

Organic pollutants in wetlands

Braeckevelt, Wiessner, Kuschik, Kästner	Removal of monochlorobenzene and perchloroethene from groundwater in laboratory-scale constructed wetlands	8	Germany
Dordio, Neto, Gonçalves, Candeias, Pinto, Costa, Carvalho	Sorption behavior of granular matrices for application in pharmaceutical removal by SSF constructed wetlands		Portugal
Llorens, Matamoros, Domingo, Bayona, Garcia	Water quality improvement in a tertiary created wetland: effects on conventional and specific organic contaminants		Spain

Matamoros, Arias, Brix, Bayona	Removal of pharmaceutical and personal care products from domestic wastewater in vertical and horizontal subsurface-flow constructed wetlands and sand filters and its comparison with activated sludge systems	Spain, Denmark
Muñoz, Ruiz, Antigüedad, Baranda	Effects of deltamethrin in denitrification activity from a wetland soils in the Basque Country	Spain
Merbach, Wittenmayer, Muratova, Golubev, Turkovskaya	The influence of the polycyclic aromatic hydrocarbon phenanthrene of the growth, development and root exudation of <i>Sorghum bicolor</i> (L.) Moench	Germany, Russia
Zhao, Gu, Lai	The distribution and sources of polycyclic aromatic hydrocarbons in sediments of the Mai Po wetland and marshes of Hong Kong	China (HongKong)

Attenuation of faecal microbial contaminants in constructed wetlands

		3
Kimwaga, Kavishe	Effects of loading rates on the removal of fecal coliform from constructed wetlands in Tanzania	Tanzania
Münc, Navarez, Röske	Investigations of the reduction efficiency of hygienic relevant germs and bacteriophages in different horizons of a vertical flow constructed wetland	Germany
Sukias, Stott, Kreutz	Buffering capacity of a constructed wetland during an accidental dairy farm pollution event	New Zealand

Hydrological and ecological processes in constructed wetlands

		3
Chague-Goff, Sorrell, Duncan, Washington	Nutrient stripping of runoff from dairy land conversions on the West Coast of New Zealand	New Zealand
Giraldi, Vitturi, Zaramella, Marion, Iannelli	Hydrodynamic of vertical subsurface flow constructed wetlands: tracer tests with rhodamine WT and numerical modelling	Italy
Peña, Madera, Ascuntar, Toro	Changes in flow patterns in SSF constructed wetlands for domestic wastewater treatment in the tropics	Colombia

Wetlands' role in catchment management

		9
Andersson, Wedding, Tonderski	Estimating wetland non-point source nutrient removal – a comparison of methods and two Swedish regions	Sweden
Antheunisse, Hefting, Verhoeven J.	Nitrogen and phosphorus removal in a nine-year old riparian zone in the Netherlands; input by agricultural run off and highly enriched brook water	The Netherlands
Ehde, Weisner	Nutrient retention in constructed wetlands in an agricultural landscape in southwest Sweden	Sweden
Gudkov, Nazarov	Long-term radioactive contamination of flood-lands within the Chernobyl exclusion zone	Ukraine
Harrington, Carroll, Cooke, Scholz	An investigation of water-vectored ammonium within hydrosphere of 'Integrated Constructed Wetlands' (ICW) with special focus on groundwater and associated receptors	Ireland, UK
Lischeid, Weyer, Peiffer, Reinhardt	Quantitative analysis of climatic and hydrological controls on solute dynamics in the riparian zone	Germany
Moreno, Comín, Pedrocchi	Future rural scenarios in Mediterranean Europe: The creation of wetlands in agricultural catchments	Spain
Rothwell, Evans, Lindsay, Allott	Modelling suspended sediment lead concentrations in contaminated peatland catchments using digital terrain analysis	UK
Väänänen, Nieminen, Ilvesniemi	Retention of phosphorus by wetland buffer zone areas at six forested catchments in southern Finland	Finland

Wetland restoration and biogeochemical processes

Augustin, Chojnicki, Olejnik	N ₂ O, CH ₄ , and CO ₂ exchange dynamics after flooding and rewetting of degraded fen grassland sites in Northeast Germany	6	Germany, Poland
Banaszuk, Wysocka-Czubaszek	Fractions of phosphorus in bottom strata of restored watercourse in a swampy river valley		Poland
Beltman, Van den Broek, Barendregt	Liming wetlands, an unpredictable restoration measure		The Netherlands
Geurts, Lamers, Roelofs	Sediment pore water ratios as a diagnostic and prognostic tools for the restoration of aquatic biodiversity in fens		The Netherlands
Lamers, Goerts, Loeb, Van der Welle, Michielsen, Lucassen, Smolders, Roelofs	Internal eutrophication often overlooked		The Netherlands
Zak, Gelbrecht	Evaluation of the phosphorus mobilisation potential in re-wetted fens by a modified chemical extraction procedure		Germany

Evaluation of ecological effects

Van der Geest, Veraart, de Cooman, Postma	Rapid screening of sediment toxicity using a new fluorescence based test with benthic diatoms	3	Belgium, The Netherlands
Van Duinen, Leivits, Timm, Brock, Verberk, Zhuge, Esselink	Response of invertebrates to nutrient enrichment and restoration: A comparative study in Estonian and Dutch raised bog pools		The Netherlands, Estonia
Van Duinen, Vermonden, Brock, Leuven, Smolders, Van der Velde, Verberk, Esselink	Nutrient enrichment changes start of invertebrate food webs in raised bog ponds		The Netherlands

Workshop on WETLAND MODELLING

Organizer: Günter Langergraber (Austria)

Koskiaho	Prospects of modelling constructed wetlands in an agricultural catchment in southwestern Finland with SWAT	7	Finland
Langergraber	Simulation of the treatment performance of outdoor subsurface flow constructed wetlands in temperate climates		Austria
McKergow, Gallant, Dowling	Modelling wetland extent using terrain indices, Lake Taupo, NZ		New Zealand, Australia
Mena, Villaseñor, Gomez, de Lucas, Langergraber	Simulation of the hydraulic and the removal efficiency of pilot horizontal subsurface flow constructed wetlands treating domestic wastewater with different plants: <i>Phragmites australis</i> and <i>Lythrum salicaria</i>		Spain, Austria
Meyer, Sommer, Thomas, Schmitt, Hagen	Development of a long-term pollution-load model to simulate CWs for CSO treatment		Germany
Sandoval-Cobo, Peña	Performance analysis of SSF wetlands in tropical regions based on first-order kinetic models for the removal of organic matter		Colombia
Toscano, Langergraber, Consoli, Cirelli	Modelling of pollutant removal in a pilot-scale two-stage subsurface flow constructed wetland		Italy, Austria

**Workshop on WETLAND SYSTEMS TO CONTROL
RUNOFF IN URBAN AREAS**

Organizer: Miklas Scholz (UK)

		9
Biernacki Fan, Ko	Aquatic contamination and 12-year changes in leaf-to-root surface area ratios in <i>Vallisneria americana</i> Pollutant removals of an urban riparian artificial wetland and its reconstruction in Taipei Basin after Typhoon Aere	USA Taiwan
Headley, Tanner, Fabrey	Floating treatment wetlands for removal of fine particulates, copper and zinc from urban stormwater	Australia, New Zeal., France
Overall, Grace, Pollino, Hart Scholz, Hedmark Scholz, Wu, Hedmark Verhoeven C., Maximovic, Blom Welker, Dittmer Yazdi, Scholz	Assessing the risk to denitrification in urban wetlands from heavy metals Integration of trees into sustainable urban drainage systems Assessment of experimental constructed wetlands treating urban runoff contaminated with nitrogen P removal with a vertical flow reedbedfilter in a large urban water system Heavy metals in vertical flow constructed wetlands for enhanced CSO treatment Stormwater infiltration and detention systems treating road runoff	Australia UK, Sweden UK, China, Sweden The Netherlands Germany UK

**Workshop on PESTICIDES REMOVAL BY
CONSTRUCTED WETLANDS (ArtWET LIFE)**

Organizer: Ralf Schulz (Germany)

		8
Elsaesser, Hauck, Schulz Grégoire, Lange, Lebeau, Schulz, Tournebize, Trevisan, Bellefleur Grégoire, Lebeau, Reeb	Mitigation of pesticide pollution in vegetated agricultural surface waters: The role of vegetation Mitigation of agricultural nonpoint-source pesticide pollution and phytoremediation in artificial wetland ecosystems Treatment of runoff waters and sediments from vineyard origin polycontaminated by herbicides (glyphosate and diuron) and copper: constructed wetland design based on bioaugmentation-phytoremediation coupling	Germany France, Germany France
Grégoire, Madier Huguenot, Bazot, Bois, Nadalig, Kuntz, Lebeau Tapia-Padilla, Wanko, Mosé, Grégoire	Impact of the strategies of sampling on the accuracy of pesticides flows Characterization and isolation of rhizospheric microorganisms from sediments accumulated in a constructed wetland for their ability to enhance copper phytoextraction Artificial wetland modelling for pesticides fate and transport using a 2D Mixed Hybrid Finite Element approximation: Part 1	France France France
Tournebize, Vincent, Chaumot, Birgand, Margoum, Painault Wanko, Tapia-Padilla, Mosé, Grégoire	Experimental approach to mitigate pesticide pollution from a subsurface drained watershed by artificial wetlands Artificial wetland modelling for pesticides fate and transport using a 2D Mixed Hybrid Finite Element approximation: Part 2	France France

POSTER PRESENTATIONS

70 poster presentations

N, P, C cycling

Constructed wetlands

Calheiros, Rangel, Castro

Evaluation of different substrates in constructed wetlands planted with *Typha latifolia* for the treatment of tannery wastewater

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Portugal

Felberova, Mlejnska, Wanner, Kucera

Groundfilters and constructed wetlands - A comparison of wastewater treatment systems

Czech Republic

Gasiunas, Strusevicius

The influence of constructed wetlands filters on pollutant removal efficiency

Lithuania

Karabelnik, Pöldvere, Noorvee, Maddison,

The improvement of nitrogen and organic matter removal in a batch-operated constructed wetland pilot

Estonia

Nurk, Mander

Kimwaga, Leonard

Temporal and spatial variations of methane gas emissions from constructed wetlands in Tanzania

Tanzania

Korkusuz, Meyer, Langergraber

Investigation and simulation of physico-chemical, hydraulic and single-solute-transport characteristics for various filter materials

Turkey, Germany, Austria

Pastor, Subirana, Ruiz, Morató, Arias

Constructed wetlands for the treatment of liquid manure, Ventanilla Perú

Spain, Denmark

Pöldvere, Noorvee, Karabelnik, Nurk,

The wastewater purification efficiency of a pilot scale LWA-based hybrid constructed wetland

Estonia

Maddison, Mander

Scholz, Harrington, Carroll, Mustafa

Development of the Integrated Constructed Wetlands (ICW) concept

UK, Ireland

van Deun, van Dyck, Timmermans

Nitrogen and phosphorus reduction in different media used in vertical subsurface flow constructed wetlands

Belgium

Natural and semi-natural wetlands

Cohen, Freeman, Cannon

A temporal study of dissolved organic carbon characteristics and mobilisation at a Welsh fen peatland

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UK

Covelli, Perdonzani, Fraganelli, De Vittor,

Benthic fluxes of nutrients in lagoon environment (Grado lagoon, Northern Adriatic Sea)

Italy, Slovenia

Acquavita, Ogrinc

Glińska-Lewczuk

The effect of hydrological conditions on the physicochemical properties of oxbow lake water

Poland

Lu, Li, Chou

A study on the purification function of natural wetlands in northern China

China

McKergow, Timpany, Payne

Nitrogen exports from a small seepage wetland - baseflow, stormflow and livestock events.

New Zealand

McNamara, Chamberlain, Chaplow

Impacts of long term drainage of a UK wet grassland on methane fluxes

UK

P.Saari, Saarnio, Kukkonen, Akkanen, V.Saari,

CH₄, N₂O and DOC describe the C and N cycles of a flooded buffer wetland

Finland

Luotonen, Lyytikäinen,

Heikkinen, Alm

Rozkošný, Heteša, Marvan

The monitoring of old oxbows and cut meanders of the Dyje River

Czech Republic

Sgouridis, Heppell, Trimmer, Wharton

Denitrification potential in the re-connected floodplain of the River Cole (Oxfordshire, UK)

UK

Shen, Gu, Lai

Ecological pollution stress on the benthic infauna macroinfaunal community at the Mai Po and inner deep bay Ramsar Site in Hong Kong

China (Hong Kong)

Vikman, Ahti, Vuollekoski, Sallantaus,

Reduction in nitrogen transport from forested catchments by natural and restored wetland buffer zones

Finland

Nousiainen, Laine, Nieminen

Weyer, Lischeid, Peiffer

Effects of extreme drought on solute chemistry of wetland groundwater and solute export from a wetland site

Germany

Redox-sensitive processes in wetlands

Van der Geest, Vorenhout	Automated and continuous redox potential measurements in soils and sediments	3	The Netherlands
Van Laer, Smolders	Trace metal mobility under varying redox conditions: modelling cadmium and zinc release		Belgium
Zhou, Nakashimada, Hosomi	A comparative study of nitrogen transformations in vertical flow systems using a high resolution soil-water profiler		Japan

Functioning of plants in wetland ecosystems

Feldmann, Nõges	Long-term changes in macrophyte composition in Lake Võrtsjärv	5	Estonia
Ikonen	Reed strategy in Finland and Estonia - an interdisciplinary approach		Finland
Łaźniewska, Pisarek, Hołdyński	The effect of habitat conditions on peatland algal communities		Poland
Maddison, Mauring, Mander	Cattails and reeds produced in treatment wetlands in Estonia		Estonia
Pérez, Burciaga, Martínez, González, Cuevas	Evaluation of potential of <i>Eleocharis densa</i> for the construction of wetlands		Mexico

Molecular/microbial advances in wetland research

M. Truu, J. Truu, Heinsoo	Soil microbial community response to the irrigation of secondary-treated municipal wastewater under a willow coppice	2	Estonia
J. Truu, Kriipsalu, Juhanson	The impact of plant growth on microbial community and water chemistry in free-water constructed wetlands		Estonia

Heavy metals and metalloids in wetlands

Constructed wetlands

Dovbysheva	The interaction of heavy metals and radionuclides with wetland and their accumulation by plants	2	Belarus
Päkkilä, Sunnari, Kløve	Treatment wetlands for nickel and arsenic removal: case studies from Lipasvaara and Kittilä mines, Finland		Finland

Natural and semi-natural wetlands

Afri-Mehennaoui, Sahli, Mehennaoui	Pb and Cd transfer from sediments to six subaquatic plants	9	Algeria
Ahti, Joensuu, Koivusalo, Nieminen, Vuollekoski	Heavy metal concentrations in runoff water from managed peatland forests in Finland		Finland
Kalisińska, Salicki, Ligocki	Cadmium and lead in the soft tissues of scaup <i>Aythya marila</i> wintering in the Szczecin Lagoon, Poland		Poland
Lai, Gu	The fractionation of heavy metals and mineralogical analysis of sediments from the Mai Po nature reserve		China (Hong Kong)
Nanbakhsh, Scholz	Heavy metals Pollution of Shar Chi River (Urmia Iran)		Iran, UK
Nieminen, Ukonmaanaho	Heavy Metal Concentrations in the Surface Layer of Peat: A Gradient Study in Finnish Lapland		Finland
E. Skorbilowicz, M. Skorbilowicz	Trace elements in bottom sediments from the Narew river and its selected tributaries		Poland
M. Skorbilowicz, E. Skorbilowicz	The prediction of heavy metals contents in bottom sediments of the Supraśl river in a wood-boggy catchment		Poland

Teuchies, de Deckere, Meire	The effect of tidal regime on trace metal uptake by <i>Phragmites australis</i>	Belgium
Organic pollutants in wetlands		
		5
Dordio, Neto, Gonçalves, Carvalho, Candeias, Pinto, Costa	Removal of pharmaceuticals in constructed wetlands using <i>Typha</i> and LECA: a pilot-scale study	Portugal
Eke, Scholz	Hydrocarbon removal with constructed treatment wetlands	UK
Lee, Yoon, Ko, Kim	The chemical effects of soil on the degradation of benzene	Korea
Merbach, Muratova, Narula, Kuschik, Wand	Relationships between rhizosphere microflora on bitumen-contaminated soils	Germany, India, Russia
Perra, Renzi, Volterrani, Focardi	Polycyclic aromatic hydrocarbons assessment in the Orbetello Lagoon sediments (Tuscany, Central Italy)	Italy
Hydrological processes in constructed wetlands		
		4
Balla, Maassen	Indicators linking Darcy flux and phosphorus dynamics in bottom sediments of wetland running water system	Germany
Lode, Sepp	The hydrological behaviour of the raised bog catchments of a limnogenic mire complex	Estonia
Rodriguez, Cristancho	Vertical flow constructed wetland varying hydraulic load for wastewater treatment	Colombia
Rozkošný, Křiška, Dunajský	Evapotranspiration on wetland vegetation	Czech Republic
Wetland modelling		
		2
Brovelli, Baechler, Rossi, Langergraber, Barry	Coupled flow and hydro-geochemical modelling for design and optimization of horizontal flow constructed wetlands	Switzerland, Austria
Scholz, Sadowski	Classification model for sustainable flood retention basins	UK
Wetland restoration and wetlands' role in catchment management		
		16
Chen, Liu, Song	A study on the framework for wetland inventory in Taiwan	Taiwan
Fajer, Machowski, Rzetala, Ruman, Szymczyk, Waga	Late Vistulian and Holocene evolution of Jezioro Lake. Valuable for southern Poland record of changes in the environment in deposits and landforms	Poland
B.B. Jana, S. Jana	Alleviating downstream problems and poverty reduction using tropical wetlands	India
Kääriä, Yliruusi, Kanerva-Lehto, Loisa	The advantage of real-time water monitoring: Is it possible to reduce nutrients by constructing bottom dam systems?	Finland
Karlavičienė, Kriipsalu, Marčiulionienė, Kazlauskienė	The toxicity of leachate discharge from two landfills in Estonia	Lithuania, Estonia
Kerr, Burford	The partitioning of nitrogen and phosphorus within contrasting reaches of a sub-tropical river system	Australia
Kuld, Punning, Ilomets	The impact of atmospheric pollution on the <i>Sphagnum</i> cover decay of ombrotrophic peatlands in northeastern Estonia	Estonia
Lawrence, Rutherford, Ghadirian	The importance of high country peatlands for water supply in drought ravaged south-eastern Australia	Australia

Mazurek & Osadowski	Hydrological and hydrochemical requirements of spring vegetation in the postglacial area of north-western Poland	Poland
Onodera, Saito	Spatial distribution of nitrate attenuation area in small mountainous catchment of an inland sea	Japan
Obolewski, Osadowski	Uses and protection of wetlands on the example of central Słupia region (northern Poland)	Poland
Osadowski, Wołejko	The ecological effect of restoration works in the soligenic mires of Wietrzno (northern Poland)	Poland
Puczko, Opaliński, Węśławski	The sand banks of the Vistula River as a natural filter	Poland
Puustinen, Koskiaho	Multipurpose wetlands for agricultural water protection - guidelines for wetland planning and construction	Finland
Szyperek	The role of mid-field ponds as biogeochemical barriers in agricultural areas	Poland
Willis, Freeman, Jones, Cannon, Murphy	Seasonal influences on the flux of peatland-sourced dissolved organic carbon to a Welsh drinking water reservoir	UK

Remark: Red color indicates papers' and/or posters' authors not compiled the registration yet