



Sunday, 18 April

17:00 - 19:00	Welcome Reception and Conference Registration
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Monday, 19 April

08:00	Registration	
09:00	Opening session	
General Session		
09:30	Keynote presentation: How environmental decision support systems can help in configuration, design and operation of constructed wetlands?, <u>Manel Poch</u> , University of Girona, Spain.	
10:30	Coffee Break	
Parallel Session 1- Resource oriented sanitation concepts for towns (source control, disinfection, separation and reuse systems and environmental pollution control for legionellosis) – part A		Parallel Session 2- Operation, modelling and control of water and wastewater treatment systems – part A
11:00	Closing the Loop- Ecological Sanitation Supply Chain on the example of Accra and Kade, Ghana (IWA-4010). <u>A. Drewko</u> , Germany.	11:00 Assessment of the minimal oxygen limiting conditions required for full partial nitrification to nitrite in a biofilm airlift reactor (IWA-4060). <u>E. Isanta</u> , Universitat Autònoma de Barcelona, Spain.
11:25	The MobiSan® Approach Informal Settlements of Cape Town, South Africa (IWA-4094). <u>A. Naranjo</u> , Lettinga Associates Foundation (LeAF), The Netherlands.	11:25 Aerobic multi-strata sand filtration for greywater treatment and reuse at household scale in Arequipa, Peru (IWA-4051). <u>C. Archetti</u> , Universitpa Degli studi di Trento, Italy.
11:50	Quantifying the transport impacts of separate collection of urine and blackwater. (IWA-3991). <u>F. Meinzinger</u> , Germany.	11:50 Comparison of MBR-UCT start-ups at different permeate fluxes (IWA-4078). <u>H. Monclús</u> , Universitat de Girona, Spain.
12:15	A systematic approach to resource oriented sanitation options - report on the results of a large German working group. (IWA-4178). <u>M. Oldenburg</u> , University Ostwestfalen Lippe, Germany	12:15 Analysis and description of sustainable solutions for wastewater treatment in small communities (IWA-4049). <u>Y. Ferrer</u> , CEDEX, Spain
12:40	Effect of Five Pharmaceutical Substances contained in Urine on the Germination of Cress and Cereal Seedlings (IWA-4009). <u>M. Winker</u> , Deutsche Gesellschaft für Technische, Germany	12:40 Development of a modular Environmental Decision Support System for the Integrated Management of the Urban Wastewater Cycle on Multiple River Basin Scales (IWA-4177). <u>D. Murla</u> , Catalan Institute for Water Research, Spain.
13:15	Lunch	
14:30	Keynote presentation: Are pharmaceutical residues a problem for urine reuse in agriculture? <u>Martina Winker</u> , Deutsche Gesellschaft für Technische, Germany	



Parallel Session 3- Resource oriented sanitation concepts for towns (source control, disinfection, separation and reuse systems and environmental pollution control for legionellosis) – part B		Parallel Session 4 - Operation, modelling and control of water and wastewater treatment systems – part B	
15:30	Natural systems treating greywater and blackwater: integrating treatment, reuse and landscape (IWA-4170). <u>P. Paulo</u> , Universidade Federal de Mato Grosso do Sul – UFMS, Brasil	15:30	A two-sludge system for simultaneous biological C, N and P removal via nitrite pathway (IWA-4043). <u>A. Guisasola</u> , Universitat Autònoma de Barcelona, Spain.
15:55	Three years of operation of the urine-diversion system in GTZ headquarters in Germany; user opinions and maintenance challenges (IWA-4173). <u>M. Winker</u> , Deutsche Gesellschaft für Technische, Germany	15:55	On-line estimation of fouling rates in MBRs altered by proteins and polysaccharides. (IWA-4080). <u>I. Ferrer</u> , Universitat de Girona, Spain
16:20	Sustainable water resources management in the Oasis of Figuig, Morocco (IWA-4088). <u>A. Torrens</u> , Universitat de Barcelona, Spain.	16:20	5 minutes _ On-line control of aeration in a membrane bioreactor (IWA-4076). <u>S. Gabarron</u> , Universitat de Girona, Spain. 5 minutes _Use of dissolved oxygen to estimate the biokinetic parameters of an activated SBR sludge (IWA-4066). <u>F. López</u> , Universidad Politécnica de Valencia, Spain.
16:45	Coffee Break		
Parallel Session 5- Low technology and appropriate treatment systems		Parallel Session 6 - Sludge production, reduction and management	
17:00	Estimation of the effective life of blast-furnace-slag filters used for phosphorus removal at small wastewater treatment works (IWA-3936). <u>R. Hamdan</u> , University of Leeds, UK.	17:00	Effect of a short thermal stage in the mesophilic anaerobic co-digestion of Wastewater Sludge and the Organic Fraction of Municipal Solid Waste for the production of bio-energy and biosolids (IWA-4097). <u>J.E. Ruiz Espinoza</u> , Universidad Autónoma Metropolitana, Mexico.
17:25	The oxidation ditch, a simple activated sludge process, a personal history with a future (IWA-4011), <u>R. Kampf</u> , Waternet, The Netherlands.	17:25	Sludge production based on organic matter and nitrogen removal performances (IWA-4172). <u>N. Seron</u> , Universitat de Girona, Spain.
17:50	Modelling Chaos? Sanitation Options; Support and Communication Tool (IWA-4093). <u>D. Castellano</u> , Waste Advisers, The Netherlands.	17:50	Anaerobic fermentation of sludge production for C-source recovery and sludge reduction in a two-stage fermentation process (IWA-4069). <u>Peng Yongzhen</u> , Beijing University of Technology, China.
18:15	5 min Evaluation method for small scale water treatment products, the example of disinfection (IWA-4033). <u>D. Bouman</u> , Aqua for All, The Netherlands.		
18:20-19:00	STG meeting: Small Water and Wastewater Treatment Systems		
20:00	Official Welcome at the Faculty of Arts and Humanities.		



21:30 Young Water Professionals

Tuesday, 20 April

General Session

9:00 **Keynote presentation:** Example of technology transfer for the treatment of effluents from small-scale agro-food industries in France. Michel Torrijos, INRA, France.

10:00 Coffee Break

Parallel Session 7- Wetland systems and stabilization ponds – part A

10:30 Rural domestic wastewater treatment in Norway and Poland: experiences, cooperation and concepts on the improvement of constructed wetland technology (IWA-4082). H. Obarska-Pempkowiak, Gdańsk University of Technology, Poland.

10:55 Comparison of single-stage and a two-stage vertical flow constructed wetland systems for different load scenarios (IWA-3930). G. Langergraber, BOKU University, Austria.

11:20 Design and first results of a subsurface vertical flow constructed wetland for individual sanitation in Galicia (IWA-4071).

Parallel Session 8- Nutrient removal and recovery – part A

10:30 Influence of primary treatment on nutrient removal from domestic wastewater: moving to granular sludge (IWA-4070). M. Coma, Universitat de Girona, Spain.

10:55 Nitrogen removal from anaerobically pre-treated domestic sewage by combining nitrification and sulfide-oxidizing autotrophic denitrification (IWA-3925). T.S.O. de Souza, University of São Paulo, Brazil

11:20 Partial nitrification of sludge reject water by means of aerobic granulation (IWA-4075). S. López, Universitat de Barcelona, Spain.



	E. Taure, Adantia, Spain.		
11:45	5min- Single-family Treatment Wetlands in Kaszuby Lake District - start up (IWA-4081). E. Wojciechowska, Gdansk University of Technology, Poland.	11:45	Production of N2O in different biological N removal processes: a comparison between conventional and shortcut N removal process (IWA-3896). G. Youkui, Beijing University of Technology, China.
Parallel Session 9- Wetland systems and stabilization ponds – part B		Parallel Session 10- Nutrient removal and recovery – part B	
12:15	An Overview of Clogging in Subsurface-Flow Treatment Wetlands (IWA-4025). J. Garcia, Technical University of Catalonia, Spain.	12:15	Simultaneous organic and nitrogen removal from municipal landfill leachate using an UASB-A/O system (IWA-3929). H. Sun, Beijing University of Technology, China.
12:40	Natural Systems for wastewater treatment and reuse in small communities in Catalonia (IWA-4100). M. Lucero, Universitat de Barcelona, Spain.	12:40	Effect of influent nutrient ratios and temperature on simultaneous phosphorus and nitrogen removal in a step-feed CAST (IWA-4038). M. Juan, Beijing University of Technology, China.
13.10	5min_CWM1 implementation into RCB for constructed wetlands simulation (IWA-4054). E. Llorens, Catalan Institute for Water Research, Spain.		
13:20	Lunch	Parallel Session 12- Nutrient removal and recovery – part C	
		14:30	Nitrogen Recovery from Source Separated Human Urine Using Clinoptilolite and Preliminary Results of its Use as Fertilizer (IWA-4057). B. Beler Baykal, Istanbul Technical University, Turkey.
		14:55	Application of biofilm reactors to improve ammonia oxidation in low nitrogen loaded wastewater (IWA-4045). M. A. Val del Río, Universidade de Santiago de Compostela, Spain.
		15:20	Modelling of Struvite Precipitation Experiments Conducted in Synthetic Solutions and Different Anaerobic Digester Effluents by Using the Geochemical Model PhreeqC (IWA-4023). D. Antakyali, Universitaet Stuttgart, Germany.
15:45	Coffee Break		
Parallel Session 13- Water governance , reclamation and reuse at small scale		Parallel Session 14- Energy saving/recovery from small water and wastewater treatment systems	
16:15	Estrogen-like and dioxin-like organic contaminants in reclaimed wastewater: Transfer to irrigated soil and groundwater	16:15	Energy optimization control system for membrane bioreactors (IWA-4085). G. Ferrero, Universitat de Girona, Spain.



	(IWA-4061). <u>H. Fenet</u> , Université Montpellier, France.		
16:40	The Potential of Mulch for Treating Greywater intended for Irrigation Reference (IWA-3278). <u>S. Dalahmeh</u> , Swedish University of Agricultural Sciences, Sweden.	16:40	A Combined UASB-MBR with Shortcut Nitrification-Denitrification for Energy Reduction in Wastewater Reclamation (IWA-3910). <u>F.S. Wong</u> , Nanyang Technological University Singapore, Singapore.
		17:05	Simultaneous domestic wastewater treatment and renewable energy production by microbial fuel cells (MFCs) (IWA-4067). <u>S. Puig</u> , Catalan Institute for Water Research, Spain.
		17:30	5 min_ An Emergent Approach for Oxygen Control in the N-Ammonia Removal Process (IWA-4065). <u>F. Félix H. del Olmo</u> , UNED, Spain.
17:45- 18:30	STG meeting: Resources Oriented Sanitation		
20:00	Gala Dinner		
Wednesday, 21 April			
9:00	Keynote presentation: Experiences with the implementation and operation of decentralized resource-oriented sanitation systems in Arba Minch, Ethiopia. <u>Kinfe Kassa</u> , Water Technology Institute, Ethiopia.		
10:00	Coffee Break		
Parallel Session 15- Decentralized domestic, industrial and urban wastewater collection and treatment systems		Parallel Session 16- Aerobic and anaerobic wastewater treatment systems	
10:30	A multicriteria technique for optimizing the management of personnel of small wastewater treatment plants (IWA-3990). <u>S. De Gisi</u> , Università di Salerno (UNISA), Italy.	10:30	Temperature and pH effects on mixed culture acidogenic fermentation of glucose (IWA-3987). <u>F.J. Fernández</u> , Universidad de Castilla-La Mancha, Spain.
10:55	Feasibility of UASB/trickling filter systems without final clarifiers for the treatment of domestic wastewater in small communities in Brazil (IWA-4092). <u>C. Chernicharo</u> , Federal University of Minas Gerais, Brazil.	10:55	Improvement of sludge settleability in an aerobic SBR treating wastewater with high COD (IWA-4171). <u>M. Torrijos</u> , INRA, France.
11:20	Distributed Sewerage Servicing - A Unique Case Study in Kinglake West (IWA-4032). <u>R. Narangala</u> , Yarra Valley Water, Australia.	11:20	Wastewater treatment in an anaerobic filter using small lava stones as filter media without temperature control (IWA-4027). <u>S. González</u> , UNAM, Mexico.
11:45	5 min_ Overcoming barriers in sustainable implementation of urine diverting dry toilets in Fergana valey and correct usage of water resources (IWA-3979). <u>S.</u>	11:45	Performance of an economic porous carrier for moving bed reactors (IWA-4008). <u>S. González</u> , UNAM, Mexico.



	<u>Rustamovich Ibragimov</u> , Public Association "Central Asian Alliance for Water", Kyrgyzstan.		
11:55	5 min_ Sewage Treatment on Board of Sea going Vessels (IWA-4098). <u>M. Reitz</u> , RWTH-Aachen University ,Germany.	12:10	5 min_ Improvement in the treatment efficiency of UASB reactor by modification in reactor design (IWA-4174). <u>S. Das</u> , Indian Institute of Technology Bombay, India. 5 min_ Nitrogen removal using aerobic granules (IWA-3937). <u>M. Lucero Cobos-Becerra</u> , National Autonomous University of Mexico, Mexico.
Parallel Session 17- Upgrading water and wastewater treatment systems waste		Parallel Session 18- Industrial water and wastewater treatment systems	
12:30	A statistical experiment design approach for upgrading the performance of the coagulation-flocculation process of raw surface water with high contents of turbidity and color (IWA-4095). <u>R.M. Ramírez</u> , UNAM, Mexico.	12:30	Treatment of high loaded swine slurry in an aerobic granular reactor (IWA-4020). <u>M. Figueroa</u> , Universidade de Santiago de Compostela, Spain.
12:55	Aerobic granular biomass in a continuous stirred tank reactor (IWA-4021). <u>N. Morales</u> , Universidade de Santiago de Compostela, Spain.	12:55	Lacks and needs of R&D on wastewater treatment in small populations (IWA-4050). <u>C. Aragon</u> , CENTA, Spain.
13:20	5 min_ Start up of a pilot scale aerobic granular reactor (IWA-4040). <u>M. Figueroa</u> , Universidade de Santiago de Compostela, Spain.	13:20	Practical and Robust Automatic Control of a Sequencing Batch Reactor for Toxic Wastewater Treatment (IWA-4039). <u>A. Vargas</u> , UNAM, Mexico.
13:30	5 min_ Performance of aerobic granular biomass treating the effluent from a seafood industry at variable loads (IWA-4022). <u>M.A. Val del Río</u> , Universidade de Santiago de Compostela, Spain.		
13:45	Lunch		
Parallel Session 19- Environmental microbiology and population dynamics in water and wastewater treatment		Parallel Session 20- Practical cases studies and aspects about best suitable technology selection	
15:00	Long-term survival of Escherichia coli in lightweight aggregate filter media of constructed wastewater treatment wetlands (IWA-4056). <u>A.M. Paruch</u> , the Norwegian Institute for Agricultural and Environmental Research, Norway.	15:00	Best Management Practices in wastewater treatment: the territorial approach of the autonomous province of Trento (IWA-4072). <u>A.L. Eusebi</u> , Università Politecnica delle Marche, Italy.
15:25	Characterization of microbial activity and community in enhanced biological phosphorus removal at 10 °C (IWA-4019).	15:25	>From conventional SWWTP to small MBR Opportunities in Flanders (IWA-4037). <u>A.-S. Vandendriessche</u> , Aquafin, Belgium.



International
Water Association

International IWA Conference on:
Sustainable Solutions For Small Water And
Wastewater Treatment Systems (S2Small2010)

19-22 April 2010 - Girona, Catalonia (Spain)



	G. Wu, NUI Galway, Ireland.		
16:00	General discussion of conference Outcome		
17:30	Conference Close		

Thursday, 22 April

9:00	Technical and social tour (all day)
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List of Posters

Decentralized domestic, industrial and urban wastewater collection and treatment systems

An on-site sanitation system with urine separation and a Norwegian wastewater treatment filterbed at Ångersjön road resting area, E4 Sweden. - Results from 4 years of operation (2004-2007). (IWA 4063). D. Strae and P. Peter Ridderstolpe, WRS Uppsala AB, Sweden.

Pro-Poor Septic Tanks for Urban Areas - Modular Units Program of Urban Sanitation & Hygiene Promotion (PUSH) Mercy Corps. (IWA 4560). S. Amin and D. Suparta. Mercy Corps, Indonesia.

Chemical Disinfection of Hospital Wastewaters (IWA 4062). A. Galletti, P. Verlicchi, A. De Luigi, M.R. Benvenuti, F. Gnudi, S. De Vita, L. Colla, F. Lucchese, M. Pericoli, P. Bascucci. University of Ferrara, CADF SpA and Newster srl, Italy

Study of enhanced vertical flow constructed wetlands for rural wastewater treatment (IWA 4036). J Zou, X. Guo, J. Liu and H. Liang. Chinese Academy of Sciences, China.

Electrosorption equipped with Carbon Nano-Tube electrodes for the decentralized water treatment plants (IWA 4017). S-H Han, J-Y Kim, J-S Lee, I-S Chang, C-G Lee and S-Y Joung. Hoseo University and KumKang Engineering Corporation, South Korea.

A New Aerator for Wastewater Network (IWA 3939). Mr. Vahram Mkrtychyan, JINJ Ltd., Armenia

A novel biofilm and eco-filter combined system for decentralized wastewater treatment in rural region of China (IWA 4031). H. Liang, X. Guo and J. Liu. Chinese Academy of Sciences, China.

Avloppsguiden – the Swedish national knowledge node for onsite sanitation (IWA 4090). E. af Petersens, M. Palmér Rivera. WRS Uppsala AB and Avloppsguiden AB, Sweden.

Energy saving/recovery from small water and wastewater treatment systems

Water Quality Data Warehousing to assess and monitor the Water Pollution in Peripheral Rivers of Dhaka, the Capital City of Bangladesh (IWA 4579). N. Akhtar, M. Rashid and C.Y. Kolybanov. Dhaka University of Engineering and Technology (DUET), Bangladesh Open University and Moscow State Academy of Fine Chemical Technology. Bangladesh and Russia.



Environmental microbiology and population dynamics in water and wastewater treatment systems

Microbial characterisation of a p-nitrophenol-degrading mixed culture with an improved methodology of fluorescence in situ hybridisation (FISH) and confocal laser scanning microscopy (CLSM) (IWA 4091). M.E. Suárez-Ojeda, H. Montón-Domingo, M. Roldan, M. Martín-Hernández, J. Pérez and J. Carrera. Universitat Autònoma de Barcelona, Spain.

Toxicity Assessment of Seawater Salts to Freshwater Consortia of Microorganisms treating sewage (IWA 4030). Y. Cui, Y. Peng, C. Peng, L. Ye. Beijing University of Technology and Nanyang Technological University, China and Singapore.

Microscopic analyses: A very powerful tool for the control of wastewater treatment plants. (IWA 3274). M. Mas, Hydrolab Microbiologica, Spain.

Industrial water and wastewater treatment systems

Influences of Temperature, pH and Inorganic Salt on the Removal of Phenols from Aqueous solution and Industrial Effluent onto Commercial Activated Carbon S23. (IWA 4005). E.F. Mohamed, C. Andriantsiferana and H. Delmas. University of Toulouse, France.

Cadmium, zinc and nickel removal using low cost materials (IWA 4107). P.R. Soares, O.M. Freitas, M. A. Ferreira, S.A. Figueiredo. REQUIMTE / Instituto Superior de Engenharia do Porto, Portugal

Copper removal from a real industrial wastewater using peanut hulls (IWA 4105). F.D. Oliveira, A.C. Soares, O.M. Freitas, S.A. Figueiredo. REQUIMTE / Instituto Superior de Engenharia do Porto, Portugal.

Radiolytic decomposition of five antibiotics: Kinetics and modeling (IWA 4048). D. Choi, M. Lee, S-W Jeong, S. Jin Ki and S. Yu. Korea Atomic Energy Research Institute, Kunsan National University and Gwangju Institute of Science and Technology, South Korea.

Low technology and appropriate treatment systems

Development of affordable and robust treatment technologies to ensure safe drinking water for Small and Rural Communities (IWA 4542). M. Mohseni, University of British Columbia, Canada.



The development and commissioning of NovFlo – a novel, low energy filter device for nitrogen removal at small scale wastewater treatment facilities (IWA-3970). H.K. Briers, D.D. Mar and J. Broome. University of Leeds and Ove Arup & Partners, UK.

Operation, modelling and control of water and wastewater treatment systems

Improving nutrient removal and energy savings through modelling and the use of fuzzy control systems in the WWTP at La Vall del Ges (Spain). (IWA 4068). N. Pellicer, J. Subiranas, M. Poch and F. Carrasco. University of Girona (Spain).

Evaluation of organic contaminants removal from wastewater by several treatments based on different technologies using advanced analytical techniques (IWA 4018). J. L. Martínez Vidal, R. Romero-González, A. Garrido Frenich, P. Plaza-Bolaños, M. N. Barco Bonilla, J.J. Salas and I. Martín. University of Almeria and Foundation Center for New Water Technologies (CENTA). Spain.

Practical cases studies and aspects about best suitable technology selection

Evaluation of Technologies for Decentralized Wastewater Treatment in China. J. Liu, M. Yang, M. Chen, X. Guo, B. Fan, H. Liang (IWA 4035). Chinese Academy of Sciences, China.

Small Wastewater System selection using knowledge-based methods and multi-criteria evaluation. (IWA 4099). M. Garrido, X. Flores-Alsina, I. Rodríguez-Roda and M. Poch. Catalan Institute for Water Research, University of Girona and Université Laval, Spain and Canada

Resource oriented sanitation concepts for towns (source control, disinfection, separation and reuse systems and environmental pollution control for legionellosis).

The oxidation ditch, a simple activated sludge process, a personal history with a future (IWA 4028). R. Kampf. Waternet and Vrije Universiteit, The Netherlands.

Developing Sustainable Sanitation in Central and Eastern Europe – Global Water Partnership shows a way how to do it (IWA 4551). P. Ridderstolpe and M. Palmer-Rivera. Water Revival Systems Inc., Sweden.

Rainwater quality from roof catchments: A case study (IWA 4026). C. Vialle, C. Sablayrolles, M. Lovera, M.-C. Huau, S. Jacob, M. Montrejaud-Vignoles. Université de Toulouse, INRA; LCA (Laboratoire de Chimie Agro-Industrielle) and Veolia Eau, France.



Blackwater separation and reuse with vacuum toilets in a local activity centre in Sweden (IWA 4083). M. Palmér Rivera, P. Ridderstolpe and K-A Reimer. WRS Uppsala AB and Municipality of Trosa, Sweden.

School Sanitation based on Urine Diverting Dry Toilets - How to provide hygienic and affordable sanitation in areas without a functioning wastewater system (IWA 4675). C. Wendland, S. Deegener and S. Saidova. WECF, WECF/TUHH and ASDPNAU (Germany).

Sludge production, reduction and management

Solar Renewable Energy as an alternative to improve industrial wastewater treatment efficiency: Increasing Organic Contaminant Removal and Decrease the Amounts of Sludge Production (IWA 4540). F. Al Momani. Mutah University, Jordan.

Enhancement of waste sludge disintegration by ozone combined with ultrasound pre-treatment. M. Fiter, A. Canut, B. Ruiz, C. Ferrer and A. Pascual (IWA 4169). Research Association on Food Industry (ainia) and FACSA, Spain.

Waste sludge reduction: a biological approach and performances in a real wastewater treatment plant (IWA 4079). C. Troiani, P. Battistoni, A.L. Eusebi, F. Fatone. Marche Polytechnic University and University of Verona, Italy.

Waste activated sludge partial stream sonication. Enhanced biogas production and energy balance in pilot and full scale plant (IWA 4046). M. Laurení, G. Silvestre, J. Palatsi, O. Garanto and A. Bonmatí. GIRO CT and Passavant España SA., Spain.

Study on the membrane fouling control using aqua-discharge technology for the decentralized wastewater treatment plants (IWA 4016). J-S Lee, J-Y Kim, S-H Han, I-S Chang, C-G Lee, S-Y Joung. Hoseo University and KumKang Engineering Corporation, South Korea.

Research on an Excess Sludge Reduction Technique Using an Oxidant (IWA 3924). S. Hirata, Y. Okamoto, T. Taniguchi, M. Iwashita, K. Kudou and T. Ishida. Nippon Steel Kankyo Engineering Co., Ltd., and JIWET (Japan Institute of Wastewater Engineering Technology), Japan.

Upgrading water and wastewater treatment systems waste

Characterization of humic acid in the effluents of conventional WWTPs and treatment wetlands (IWA 4052). J. Pempkowiak, H. Obarska-Pempkowiak, M. Gajewska and E. Wojciechowski. Technical University of Koszalin and Gdańsk University of Technology, Poland.



Appropriate portable water supply system with the ceramic membrane filtration in Southeast Asia (IWA 4490). T. Hashimoto, H. Katayama, S. Wattanachira, P. Chaimongkol and N. Aoki. Metawater Co. Ltd., University of Tokyo and Chiang Mai University, Japan and Thailand.

Dissolved Air Flotation (DAF) as a primary treatment of urban wastewater (IWA 3941). L. Falletti, L. Collareda, P. Benassi. University of Padova, OMC Collareda s.r.l., and Acque SpA, Italy.

Water governance, reclamation and reuse at small scale

Experimental platforms to support the management and implementation of wastewater treatments in small settlements (IWA 3984). I. Martín, J.J. Salas and K. Fahd. Foundation Center for New Water Technologies (CENTA), Spain.

On-site greywater treatment for sport center irrigation (IWA 4058). L. Batchellí, J. Gabarró, M.D. Balaguer, M. Laburu, S. Puig and J. Colprim. University of Girona, ESPA GROUP and Catalan Institute for Water Research (ICRA), Spain.

Estimation and spatial analysis of sewage pollution loads from towns and villages in China (IWA 4015). Y. Yan, D. Wang, F. Dai, B. Fang, C. Liu, M. Yang. Chinese Academy of Sciences, China.

Key Obstacles and Countermeasures for Starting up Wastewater Treatment in small Towns and Villages in China (IWA 4041). Bin Fan, Ph.D; Yan Yan, Ph.D; Meixue Chen, Ph.D; Chao Liu, M.D.; Liang Chai, M.D. Chinese Academy of Sciences, China.

Sustainable Development experience of wastewater reuse in a peri-urban school in "El Milagro" (Perú). (IWA 4489). C. Amengual-Morro, R.M. Miglio, B. Vilafranca and A. Martínez-Taberner. University of Balearic Islands and National Agrarian University La Molina, Spain and Peru.

Wetland systems and stabilization ponds

Long term cost-efficiency and management needs in free water surface wetlands for tertiary wastewater treatment (IWA 4077). J. L. Andersson, S. Gunnarsson, P. Ridderstolpe and K. S. Tonderski. WRS Uppsala AB and Linköping University, Sweden

Performance of three different small constructed wetland plants for domestic water treatment in the Center of Italy (IWA 4073). M. Passoni and M. Borin. University of Padua, Italy.

Residence time distribution for determination of hydraulic performance of a wetland receiving ferruginous mine water over a 3 year period from commissioning (IWA 4491). F. M. Kusin and A. P. Jarvis. Newcastle University, UK.



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Constructed wetlands are efficient systems for the removal of emerging pollutants (IWA 3897). M. Hijosa-Valseiro, V. Matamoros, J. Martín-Villacorta, E. Bécares and J. M. Bayona. Universidad de León and IDAEA-CSIC, Spain.

Biological filtration of well treated waste water - mesocosm studies Grou in the Netherlands and Empuriabrava in Spain on biological filtration processes in Waterharmonica systems (IWA 4029). R. Kampf, Ll. Sala, J. Colom, J. Colomer, C. Pau, T. Claassen and S. Gerbens. Waternet and Consorci de la Costa Brava, The Netherlands and Spain.