

Preliminary Posterprogramme

(as of 26 February 2019, subject to changes)

Title and authors as given by the submitter, no proof by the organizer. Poster numbers will be allocated later.

Agricultural reuse	
18404	<p>Use of soil column to assess ion mobility present in treated effluent</p> <p>RAFAELA DANTAS DE LUCENA ROCHA, UNIVERSIDADE FEDERAL DE PERNAMBUCO, CARUARU/BR;KENIA BARROS, UNIVERSIDADE FEDERAL DE PERNAMBUCO, CARUARU/BR;LUAN BISERRA, UNIVERSIDADE FEDERAL DE PERNAMBUCO, CARUARU/BR;ELIZABETH PASTICH, UNIVERSIDADE FEDERAL DE PERNAMBUCO, CARUARU/BR</p>
18476	<p>Cultivation of Capsicum chinense seedlings submitted to treatment with different types of irrigation water</p> <p>Marcos Henrique Gomes Ribeiro, Federal University of Pernambuco, Recife/BR;Mario Takayuki Kato, Federal University of Pernambuco, Recife/BR;Wandeli Rogerio Moreira Leite, Federal University of Pernambuco, Recife/BR;Maria de Lourdes Florencio dos Santos, Federal University of Pernambuco, Recife/BR;Savia Gavazza, Federal University of Pernambuco, Recife/BR;Nathalia Felix Bomfim, Federal University of Pernambuco, Recife/BR</p>
18566	<p>The reuse of untreated wastewater in a small town in India A case study from Vijayapura, Karnataka</p> <p>Prof. Vishwanath Srikantaiah, Biome Environment Trust, Bengaluru/IND</p>
18670	<p>Evaluation of blue water footprint for the agriculture sector of Khyber Pakhtunkhwa and recommendation of adaptation techniques to meet the water demand of crop</p> <p>Dr. Rashid Farooq, international Islamic University, Islamabad/PK;Fahad Semab, RWTH Aachen University, Aachen/D;Muhammad Waqas Sherani, international Islamic University, Islamabad/PK;Muhammad Mubeen Abbas, international Islamic University, Islamabad/PK;Muhammad Nizar Alam, international Islamic University, Islamabad/PK;Muhammad Atiq Ur Rehman Tariq, Victoria University Melbourne, Melbourne/AUS</p>
18997	<p>Influence of effluent use on coriander germination</p> <p>Nathalia Bomfim, UFPE, Recife/BR;Marcos Ribeiro, UFPE, Recife/BR;Wanderli Leite, UFPE, Recife/BR;Maria Florêncio, UFPE, Recife/BR;Mario Kato, UFPE, Recife/BR</p>
19102	<p>Chlorination for anti-clogging in drip irrigation emitters using reclaimed water: A case study in Suranaree University of Technology (Thailand)</p> <p>Dr. J. Yimrattanabovorn, Suranaree Univ. of Technology, Muang/T</p>

19147	Treated domestic effluent reuse in the germination process of Zea Mays 'BRS Gorutuba' Prof. Dr. Kênia Kelly Barros, Federal University of Pernambuco - Agreste Academic Center, Caruaru/BR; Erickson Johny Galindo, Federal University of Pernambuco - Agreste Academic Center, Caruaru/BR; Elyson Vinícius França, Federal University of Pernambuco - Agreste Academic Center, Caruaru/BR; José Valdeildo Moreira, Federal University of Pernambuco - Agreste Academic Center, Caruaru/BR; Nathali Ribeiro Silva, Federal University of Pernambuco - Agreste Academic Center, Caruaru/BR
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Industrial reuse

18299	Recommended Limits of Reclaimed Water for Industrial Use Dr. Hsin-Hsu Huang, Sinotech Engineering Consultants, Inc., Taipei/RC; Yu-De Huang, Sinotech Engineering Consultants, Inc., Taipei/RC; Ching-Ping Chu, Sinotech Engineering Consultants, Inc., Taipei/RC; Yu-Jen Chun, Sinotech Engineering Consultants, Inc., Taipei/RC
18389	Reuse of treated wastewater in industrial symbiosis Dr. Kerstin Hoyer, VA SYD, Malmö/S
18420	Long-term effect of oxygen concentration on BAC performance in a water reclamation plant Dr. Laura Palli, University of Florence, Florence/I; Stefano Fiaschi, University of Florence, Florence/I; Michele Allocca, GIDA SpA, Prato/I; Vittorio Viviani, GIDA SpA, Prato/I; Claudio Lubello, University of Florence, Florence/I; Riccardo Gori, University of Florence, Florence/I; Roberto Camisa, GIDA SpA, Prato/I; Donatella Fibbi, GIDA SpA, Prato/I
18468	Synergistic effect between ozone and biological activated carbon for the wastewater reclamation in textile industrial Dr. Wenlong Wang, Tsinghua University, Beijing/CN; Yi-Zhong Cai, Tsinghua University, Beijing/CN; Qianyuan Wu, Tsinghua University, Graduate School of Shenzhen, Shenzhen/CN; Prof. Dr. Hongying Hu, Tsinghua University, Beijing/CN
18484	Impact of organic fouling layers on the transport of micropollutants in FO process Duksoo Jang, Korea Advanced Institute of Science and Technology, Daehak-ro, Yuseong-gu, Daejeon/ROK; Seoktae Kang, Korea Advanced Institute of Science and Technology, Daejeon/ROK
18502	Novel Smart Assemblies for Industrial Waste Water Remediation Dr. Premlata Ambre, Bombay College of Pharmacy, Mumbai/IND; Joginder Singh Paneyasar, Bombay College of Pharmacy, Mumbai/IND; Nida Ahmed, Kingston University London, London/UK; Stephen Barton, Kingston University London, London/UK; Evans Coutinho, Bombay College of Pharmacy, Mumbai/IND

18543	<p>The role of LCA within a methodology for early stage design of water reuse concepts in industrial parks</p> <p>Dr. Jorge Cristobal, TU Darmstadt, Institute IWAR, Darmstadt/D;Dagmar Pohl, Leibniz Universität Hannover, Institut für Siedlungswasserwirtschaft und Abfalltechnik, Hannover/D;Anna Dell, TU Darmstadt Department of Landmanagement, Darmstadt/D;Maike Beier, Leibniz Universität Hannover, Institut für Siedlungswasserwirtschaft und Abfalltechnik, Hannover/D;Liselotte Schebek, TU Darmstadt, Institute IWAR, Darmstadt/D</p>
18565	<p>Multi-Criteria Assessment of Water Reuse in Industrial Parks</p> <p>Dagmar Pohl, Leibniz University Hannover, Institute of Sanitary Engineering and Waste Management (ISAH), Hannover/D;Maike Beier, Leibniz University Hannover, Institute of Sanitary Engineering and Waste Management (ISAH), Hannover/D;Dr. Jorge Cristobal, TU Darmstadt, Institut IWAR, Darmstadt/D;Jens Hilbig, IEEM gGmbH, Witten/D;Anna Dell, Technische Universität Darmstadt, Institut für Geodäsie, Darmstadt/D</p>
18596	<p>Cost-Benefit Analysis of Water Reuse in Industrial Parks</p> <p>Jens Hilbig, IEEM gGmbH, Witten/D;Prof. Dr. Karl-Ulrich Rudolph, IEEM gGmbH & Faculty of Management and Economics, Witten/Herdecke University, Witten/D;Birte Boysen, IEEM gGmbH, Witten/D;Jonas Beckmann, IEEM gGmbH, Witten/D</p>
18601	<p>Establishing water reuse networks in mixed-industry parks using a model-based approach</p> <p>Dagmar Pohl, Leibniz University Hannover, Institute of Sanitary Engineering and Waste Management (ISAH), Hannover/D;Maike Beier, Leibniz University Hannover, Institute of Sanitary Engineering and Waste Management (ISAH), Hannover/D;Stephan Köster, Leibniz University Hannover, Institute of Sanitary Engineering and Waste Management (ISAH), Hannover/D</p>
18920	<p>Ultrafiltration in combination with in-line coagulation</p> <p>Sonia Vila Cremer, Dow Water Solutions, TARRAGONA/E</p>
19126	<p>Ceramic-based Microflotation-Microfiltration Process for the Reuse of Challenging Industrial Effluents Through the Removal of Suspended Solids, Fats, Oils and Greases</p> <p>Dr. Matan Beery, akvola Technologies GmbH, Berlin/D;Deepak Srinivasan, akvola Technologies GmbH, Berlin/D</p>
19137	<p>Minimal Liquid Discharge (MLD): A water source and discharge solution</p> <p>Dr. Tina Arrowood, Dow Water Solutions, Elko New Market, MN/USA</p>
19139	<p>Measuring, modelling and Improving. A new methodology for the optimum water management in industries</p> <p>Prof. Dr. Paloma Grau, Ceit-IK4, San Sebastian/E</p>

Urban reuse including landscape irrigation (non potable)

18481	<p>Quantifying chlorine-reactive substances to establish a chlorine decay model of reclaimed water using chemical chlorine demands</p> <p>Dr. Yun-Hong Wang, Tsinghua University, Beijing/CN;Dr. Yinhu Wu, Tsinghua University, Beijing/CN;Dr. Ye Du, Tsinghua University, Beijing/CN;Qing Li, Tsinghua University, Beijing/CN;Yi Cong, Tsinghua University, Beijing/CN;Zheng-Yang Huo, Tsinghua University, Beijing/CN;Dr. Zhuo Chen, Tsinghua University, Beijing/CN;Hong-Wei Yang, Tsinghua University, Beijing/CN;Shu-Ming Liu, Tsinghua University, Beijing/CN;Prof. Dr. Hongying Hu, Tsinghua University, Beijing/CN</p>
18510	<p>Flushing toilets with Seawater a step in creating sustainable cities</p> <p>Dr. Berit Godskesen, Technical University of Denmark (DTU), Lyngby/DK;Martin Vester, HOFOR, Copenhagen/DK;Helene Hoffmann, HOFOR, Copenhagen/DK;Prof. Dr. Hans-Jørgen Albrechtsen, Technical University of Denmark (DTU), Lyngby/DK;Martin Rygaard, Technical University of Denmark (DTU), Lyngby/DK</p>
18525	<p>Quantifying potential benefits of airport cooling using stormwater irrigation: a case study at Adelaide Airport, Australia</p> <p>JINGMING QIAN, Monash University, Melbourne/AUS;Nigel Tapper, Monash University, Melbourne/AUS;Greg Ingleton, South Australia Water, Adelaide/AUS;Jiaxin Guo, Monash University, Melbourne/AUS;Kerry Nice, The University of Melbourne, Melbourne/AUS;Dafang Fu, Southeast University, Nanjing/CN;Leigh Gapp, Adelaide Airport, Adelaide/AUS</p>
19080	<p>A Study on "Sponge City" Applied to Beijing Daxing International Airport of China</p> <p>Zehao Wang, NIPPON KOEI CO.,LTD., Tokyo/J;Zhenhong Wang, Shanghai Urban Construction Vocational College, Shanghai/CN</p>
19118	<p>Factors Affecting Chlorine Stability in Recycled Water Distribution System: How Much Do We Know?</p> <p>Prof. Dr. Arumugam Sathasivan, Western Sydney University, Penrith/AUS</p>

Groundwater recharge

17959	<p>Treatment and reuse of grey water for trees irrigation at the border area of Al-Shoka at Rafah Governorate in Gaza Strip - Palestine</p> <p>Dr. DOAA M. A. HUSSEIN, Palestinian Water Authority (PWA), Gaza, Gaza Strip - Palestine/PSE;MOHAMMED A. K. HUSSEIN, Earth & Human Centre for Research and Study (EHCRS), Gaza, Gaza Strip/PSE;MOHAMMED EL-RAEE, Earth & Human Centre for Research and Study (EHCRS), Gaza, Gaza Strip/PSE</p>
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18471 **Modelling the behaviour of trace organic compounds during an aquifer recharge pilot-scale experiment: the SMARTplus tank**
Birte Moser, Carl von Ossietzky University of Oldenburg, Oldenburg/D;Dr. Alicia Sanz Prat, Carl von Ossietzky University of Oldenburg, Oldenburg/D;Janek Greskowiak, Carl von Ossietzky University of Oldenburg, Oldenburg/D;Sema Karakurt, Technical University of Munich, Garching/D;Uwe Hübner, Technical University of Munich, Garching/D;Prof. Dr. Jörg E. Drewes, Technical University of Munich, Garching/D;Gudrun Massmann, Carl von Ossietzky University of Oldenburg, Oldenburg/D

Small-scale/decentralized systems

18593 **The influence of an extra aeration pipe in a sand filter performance as anaerobic post-treatment system**
Daniel Augusto Camargo Bueno, University of Campinas, Campinas/BR;Bianca Graziela Gomes, University of Campinas, Campinas/BR;Raúl Lima Coasaca, University of Campinas, Campinas/BR;Lays Paulino Leonel, University of Campinas, Campinas/BR;Adriano Luiz Tonetti, University of Campinas, Campinas/BR

18597 **UV-LED as alternative to anaerobic systems effluents disinfection**
Noely Bochi Silva, University of Campinas, Campinas/BR;Lays Paulino Leonel, University of Campinas, Campinas/BR;Adriano Luiz Tonetti, University of Campinas, Campinas/BR

18600 **Wastewater reuse in agriculture: an alarming presence of pathogens**
Lays Paulino Leonel, University of Campinas, Campinas/BR;Adriano Luiz Tonetti, University of Campinas, Campinas/BR

19154 **Assessment of source separated sanitation technologies for sustainable wastewater management**
Tayebeh Zinati Shoa, Technical University of Berlin, Berlin/D;Manfred Schütze, Department Water and Energy, ifak, Magdeburg/D;Matthias Barjenbruch, Technical University of Berlin, Department of urban water management, Berlin/D;Alexander Wriege-Bechtold, Technical University of Berlin, Department of urban water management, Berlin/D

Potable reuse (surface water augmentation and groundwater recharge)

18360 **Operating world's first UV Hypo AOP System for Reuse – An Operators Story**
Jens Scheideler, Xylem Services GmbH, Herford/D

18554	<p>Degradation Emerging Contaminant and Elimination of Toxic By-products from Reclaimed Water by Catalytic Ozonation</p> <p>Yuting Zhang, Beijing Forestry University, Beijing/CN; Yechen An, Beijing University of Civil Engineering and Architecture, Beijing/CN; Donghai Yuan, Beijing University of Civil Engineering and Architecture, Beijing/CN; Yanning Li, Beijing Forestry University, Beijing/CN; Weidong Meng, Beijing Forestry University, Beijing/CN; Prof. Fei Qi, Beijing Forestry University, Beijing/CN</p>
18641	<p>A new insight into ozonation coupled with tubular ceramic membrane in wastewater treatment: performance, membrane fouling formation and the mitigation mechanism</p> <p>Zilong Song, Beijing Forestry University, Beijing, Beijing/CN; Yanning Li, Beijing Forestry University, Beijing, Beijing/CN; Yuting Zhang, Beijing Forestry University, Beijing, Beijing/CN; Chao Liu, Beijing Forestry University, Beijing, Beijing/CN; Bingbing Xu, Beijing Forestry University, Beijing, Beijing/CN; Prof. Fei Qi, Beijing/CN</p>
18642	<p>Total Organic Carbon as a Surrogate for the Removal of Pharmaceutical and Personal Care Products in the Coagulation-Flocculation Process</p> <p>Kyle Pierce, University of Nevada, Reno, Reno/USA; Prof. Dr. Krishna Pagilla, University of Nevada, Reno, Reno/USA; Begum Jahan, University of Nevada, Reno., Reno/USA</p>
18962	<p>Indirect vs. Direct Potable Reuse: Pros and Cons</p> <p>Dr. Val Frenkel, GREELEY and HANSEN, SAN FRANCISCO/USA</p>
19078	<p>High Recovery RO - Challenges to Meet Stringent Nitrogen Limits in Reservoir Augmentation Indirect Potable Reuse Projects</p> <p>Dr. Ufuk Erdal, Aecom, Orange/USA</p>

Direct potable reuse

19132	<p>Reclamation of secondary effluents from the municipal wastewater plant – A pilot test and economic evaluation</p> <p>Dr. Frank C.H. Ni, Eco-digital Tech Inc., Taipei/RC</p>
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Integrated reuse systems (industrial, urban, rural)

18533	<p>Smart Biodegradable Composite Materials for Waste Water Management</p> <p>Joginder Singh Paneysar, Bombay College of Pharmacy, Mumbai/IND; Dr. Premlata Ambre, Bombay College of Pharmacy, Mumbai/IND; Avgi Vasilaki, Kingston University London, London/UK; Stephen Barton, Kingston University London, London/UK; Evans Coutinho, Bombay College of Pharmacy, Mumbai/IND</p>
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18634	Integrated water management for industrial parks in Vietnam – a case study for textile industry Dr. Marina Sabelfeld, Technische Universität Berlin, Berlin/D; Prof. Dr. Sven-Uwe Geißen, Technische Universität Berlin, Berlin/D
19185	Datacenter Industrial Water Reuse Dr. Priscilla Johnson, Microsoft, Redmond, WA, USA/USA

Reuse in developing countries

18328	Single household greywater recycling using Constructed wetland in developing countries Prof. Dr. Srikanth Mutnuri, bits pilani goa campus, goa/IND
18451	Wastewater disinfection for agricultural reuse using solar radiation in a developing county: field observations Tamires Lima da Silva, São Paulo State University (UNESP) - Agronomic Science Faculty, Campus of Botucatu, Brazil./BR
18454	EFFECT OF POND AERATION ON GROWTH PERFORMANCE OF AFRICAN CATFISH (<i>Clarias gariepinus</i>) CULTURED IN TREATED WASTEWATER IN KUMASI, GHANA Mark Yeboah-Agyepong, TriMark Aquaculture Centre, Kumasi, Ghana/GH; Philip Amoah, International Water Management Institute, Accra/GH; Nelson Agbo, Kwame Nkrumah University of Science and Technology, Lehrstuhl für Landwirtschaft & Biosystemtechnik, Kumasi/GH; Ashley Muspratt, Thirty degrees, Berkeley/USA
18560	Reclaimed Water Development and Opportunity in Taiwan Dr. Dawei Tsai, Taoyuan City/RC; KUANG-CHIH CHANG, Water Resources Agency, MOEA, Taipei City/RC; QIN-HAN ZHENG, Water Resources Agency, MOEA, Taipei City/RC; Te-Yuan CHEN, Water Resources Agency, MOEA, Taipei City/RC; Ya-Fen WANG, Chung Yuan Christian University, Taoyuan City/RC; Sheng-Jie YOU, Chung Yuan Christian University, Taoyuan City/RC
18572	Mine water reuse as option for urban areas close to mining Dr. Katrin Brömme, Ruhr University Bochum, Bochum/D; Prof. Dr. Harro Stolpe, Ruhr-University Bochum, Bochum/D; Viet Trinh Quoc, Ruhr University Bochum, Bochum/D

18598	Integrated water management and water reuse solutions for prosperous regions tackling water scarcity Manuel Krauss, Universität Stuttgart, Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, Stuttgart/D;Stephan Wasielewski, Universität Stuttgart, Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, Stuttgart/D;Stefan Stauder, TZW: DVGW-Technologiezentrum Wasser, Karlsruhe/D;Philipp Richter, Universität Stuttgart, Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, Stuttgart/D;Peter Maurer, Universität Stuttgart, Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, Stuttgart/D;Michael Hügler, TZW: DVGW-Technologiezentrum Wasser, Karlsruhe/D;Yvonne Zahumensky, Universität Stuttgart, Zentrum für Interdisziplinäre Risiko - und Innovationsforschung, Stuttgart/D;Hannah Kosow, Universität Stuttgart, Zentrum für Interdisziplinäre Risiko - und Innovationsforschung, Stuttgart/D;Christian León, Universität Stuttgart, Zentrum für Interdisziplinäre Risiko - und Innovationsforschung, Stuttgart/D;Ralf Minke, Universität Stuttgart, Institut für Siedlungswasserbau, Wassergüte- und Abfallwirtschaft, Stuttgart/D
18950	Protecting water resources by implementation water safety plans Mohammad Reza Mohebbi, National Water and Wastewater Engineering Company, Tehran/ Tehran/IR;Sogol Oktaie, Department of Environmental Health Engineering, Iran University of Medical Sciences,, Tehran/ Tehran/IR
18998	Removal of organic pollution from shrimp processing industry using an anoxic/anaerobic membrane bioreactor Prof. Dr. Zubair Ahmed, Mehran University of Engineering and Technology, Jamshoro, Jamshoro, 76062, Sindh/PK

Operation, maintenance and service arrangements

18114	A CASE STUDY OF 7 YEARS OPERATION OF A2/O-MBR IN XIAN SIYUAN UNIVERSITY Prof. Dr. dong li, siyuan university, xian city, shaanxi,/CN
18386	Ceramic membrane and granular activated carbon as wastewater reuse technology Tomas Brabenec, ENVI-PUR, Ltd, Praha 6/CZ;Simona Kubickova, ENVI-PUR, Ltd, Prague/CZ;Daniel Vilim, ENVI-PUR, Ltd, Prague/CZ;Petra Hruskova, ENVI-PUR, Ltd, Prague/CZ;Pavel Dobias, WAET Team, Prague/CZ

Monitoring and compliance

18635	Monitoring emerging contaminants in wastewater reuse systems by fluorescence EEM Paolo Roccaro, Università degli Studi di Catania, Catania/I
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18666 **Finding sustainability pathways in wastewater management systems in an inter-disciplinary and participatory manner in Latin America**
Lucia Benavides, United Nations University -Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES), Dresden/D; Tamara Avellán, United Nations University -Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES), Dresden/D; Dr. Serena Caucci, United Nations University -Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES), Dresden/D; Angela Magdalena Hahn, United Nations University - Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES), Dresden/D; Sabrina Kirschke, United Nations University -Institute for Integrated Management of Material Fluxes and of Resources (UNU-FLORES), Dresden/D

19164 **Toxicity assessment of effluent from wastewater treatment plants in Johor Bahru, Malaysia**
Dr. Caixia Li, Nanyang Environment & Water Research Institute, Nanyang Technological University, Singapore/SGP; Chong Joon Chua, Nanyang Environment & Water Research Institute, Nanyang Technological University, Singapore/SGP; Yujue Wang, Nanyang Environment & Water Research Institute, Nanyang Technological University, Singapore/SGP; Mingliang Fang, School of Civil and Environmental Engineering, Nanyang Technological University, Singapore/SGP; Prof. Dr. Shane Snyder, Nanyang Environment & Water Research Institute, Nanyang Technological University,, Singapore/SGP

Market acceptance of reuse solutions

18460 **MBR - The Corner Stone Of Water Reuse Adoption**
Sylvain DONNAZ, Suez International Treatment Infrastructure, RUEIL-MALMAISON/F; Stephen Katz, Suez Water Treatment Solutions, Toronto/CDN; Miguel-Angel Sanz, Suez Treatment Infrastructure, RUEIL-MALMAISON/F

Risk management

18434 **Drip irrigation biofouling with treated wastewater: Influence of hydrodynamic conditions on microbial communities and pathogen persistence**
Kévin Lequette, LBE, Univ Montpellier, INRA, Narbonne/F; Dr. Nassim Ait Mouheb, IRSTEA - UMR G-EAU, Montpellier/F; Nathalie Wéry, LBE, Univ Montpellier, INRA, Narbonne/F

18435	Drip irrigation biofouling with treated wastewater: Influence of hydrodynamic conditions on microbial communities and pathogen persistence Kévin Lequette, LBE, Univ Montpellier, INRA, Narbonne/F;Dr. Nassim Ait Mouheb, IRSTEA - UMR G-EAU, Montpellier/F;Nathalie Wéry, LBE, Univ Montpellier, INRA, Narbonne/F
19040	Characterization of nanoparticle risk assessments in the context of water reuse Alexander Fairhart, George Washington University, Issaquah, Washington/USA
19099	Risk Assessment Study Of Biofilm & Chlorine Stability In Recycled Water Distribution System Prof. Dr. ANDRZEJ LISTOWSKI, University of Technology Sydney, Newington/AUS

Case studies: from 0% up to 100% reuse

18607	Tertiary wastewater treatment for water reuse in irrigated agriculture, water quality and public acceptance: a case study Dr. Daniel M. Gonzalez-Perez, SAYTA - Soluciones Ambientales y Tecnologías del Agua, Cádiz/E
18631	Proposed Recovery Reuse and Irrigation Scheme - Current and Future Measures for Supporting Agricultural Sector with Irrigation Water - NGEST Case Study Yaser Kishawi, Palestinian Water Authority, Gaza/PSE;Sadi Ali, Palestinian Water Authority (PWA), Gaza/PSE

Extending the limits of traditional treatments

18402	Fluorite removal by modified activated aluminum for wastewater reuse Prof. Chihpin Huang, National Chiao Tung University, Hsinchu/RC;YungLung Chen, National Chiao Tung University, Hsinchu/RC
18465	Understanding the dynamics of biofilm growth on graphene oxide-based membrane using optical coherence tomography Muhammad Usman Farid, City University of Hong Kong, Hong Kong/HK;Dr. Alicia An, City University of Hong Kong, Hong Kong/HK
18577	Assessments of recycled water sources for recreational water replenishment in urban area Hao-Bin Chen, National Taiwan University, Taipei/RC;Tai-You Ou, National Taiwan University, Taipei/RC;Prof. Gen-Shuh Wang, National Taiwan University, Taipei/RC

18579 **Indirect methods based on stochastic modelling for peracetic acid decay estimation in wastewater**

Jacopo Foschi, Politecnico di Milano, Milano/I;Dr. Riccardo Delli Compagni, Politecnico di Milano, Milano/I;Matteo Cascio, Politecnico di Milano, Milano/I;Dr. Andrea Turolla, Politecnico di Milano, Milano/I;Manuela Antonelli, Politecnico di Milano, Milano/I

18963 **MBR: WHEN AND WHY WE NEED IT**

Dr. Val Frenkel, GREELEY and HANSEN, SAN FRANCISCO/USA

Developing risk assessment models: microbial and chemical components

18605 **Membrane biorreactor at high hydraulic - and sludge - retention time for urban wastewater reuse, water quality considerations and behavior of xenobiotic compounds.**

Dr. Daniel M. Gonzalez-Perez, SAYTA - Soluciones Ambientales y Tecnologías del Agua, Cádiz/E

19130 **Effect of low-dosage sodium hypochlorite on algal and the influence of photosynthetic activity, reactive oxygen species, and esterase activity**

Song Cao, Tsinghua University, Graduate School of Shenzhen, Shenzhen, Guangdong/CN

Innovative treatment technologies and applications

18095 **Fenton based advanced oxidation processes for organics removal in reverse osmosis concentrate**

Mengyuan Wu, NUS, Singapore/SGP;Qinqing Cai, NUS, Singapore/SGP;BCY Lee, NUS, Singapore/SGP;Say Leong Ong, NUS, Singapore/SGP;Prof. Dr. Jiangyong Hu, National University of Singapore, Singapore/SGP

18096 **Treatment of phenol production wastewater with combined catalytic ozonation-biological process**

L Jothinathan, NUS, Singapore/SGP;GL Oh, NUS, Singapore/SGP;WH Loh, NUS, Singapore/SGP;Say Leong Ong, NUS, Singapore/SGP;Prof. Dr. Jiangyong Hu, National University of Singapore, Singapore/SGP

18222 **Removal of long- and short-chained fluorinated alkylic acids by ion exchange process for potable reuse applications**

Fuhar Dixit, University of British Columbia, Vancouver/CDN;Benoit Barbeau, Polytechnique Montreal, Montreal/CDN;Madjid Mohseni, University of British Columbia, Vancouver/CDN

18243	Treatment of Reverse Osmosis Concentrate by Integrated Process Combining Ozonation with Ceramic Membrane Dr. Junqiang Sang, SINOPEC Research Institute of Petroleum Processing, Haidian District, Beijing/CN; Dr. Chunpeng Yang, SINOPEC Research Institute of Petroleum Processing, Beijing/CN; Zhenghua Zhang, Tsinghua-Kangda Research Institute of Environmental Engineering and Nano-Technology, Graduate School at Shenzhen, Tsinghua University, Shenzhen/CN; Xihui Zhang, Tsinghua-Kangda Research Institute of Environmental Engineering and Nano-Technology, Graduate School at Shenzhen, Tsinghua University, Shenzhen/CN
18277	Application of maghemite nanoparticle coated Rhodococcus opacus for the removal of cadmium(II) from its aqueous solution. Shivani S Swamy, National Institute of Technology Karnataka, Surathkal/IND; Naveen Rao, National Institute of Technology Karnataka, Surathkal/IND; Devatha Chella Purushothaman, National Institute of Technology Karnataka, Surathkal/IND
18289	Effects of Water Matrices on Radical Distribution in the UV/monochloramine Process for Potable Water Reuse Zhuozhi ZHONG, Hong Kong University of Science and Technology, Hong Kong/CN; Ran YIN, Hong Kong University of Science and Technology, Hong Kong/CN; Yingying XIANG, Hong Kong University of Science and Technology, Hong Kong/CN; Chii SHANG, Hong Kong University of Science and Technology, Hong Kong/CN
18337	Photochemical Oxidation of Emerging Contaminants Using a Combination of Solar Irradiation and Free Available Chlorine Prof. Dr. Xin Yang, Sun Yat-sen University, Guangzhou/CN; Shuangshuang Cheng, Sun Yat-sen University, Guangzhou/CN; Xinran Zhang, Sun Yat-sen University, Guangzhou/CN
18357	Performance and Mechanisms of Ultrafiltration Membrane Fouling Mitigation in a Novel Electrochemical Membrane Reactor (EMR) Chengzhi Hu, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing/CN
18387	Visible-light-driven photocatalytic disinfection on antibiotic resistant bacteria in secondary treated effluent Prof. Dr. Yingxue Sun, Beijing Technology and Business University, Beijing/CN

18407	Electrochemical precipitation reactor for water softening and diclofenac removal Thorben Muddemann, Clausthal University of Technology, Institute of Chemical and Electrochemical Process Engineering, Clausthal-Zellerfeld/D; Dennis Haupt, CUTEC Clausthaler Umwelttechnik Forschungszentrum, Clausthal-Zellerfeld/D; Prof. Michael Sievers, CUTEC Clausthaler Umwelttechnik Forschungszentrum, Clausthal-Zellerfeld/D; Prof. Ulrich Kunz, Clausthal University of Technology, Institute of Chemical and Electrochemical Process Engineering, Clausthal-Zellerfeld/D
18463	Synthesis and adsorption behavior of chitosan-coated MnFe₂O₄ nanoparticles for trace heavy metal ions removal Prof. Dr. Zhoucheng Wang, Xiamen University, Xiamen/CN
18469	Removal of Perfluorooctanoic acid (PFOA) in Wastewater Using Electrocoagulation Moon-Kyung Kim, Seoul National University, Seoul/ROK; Prof. Dr. KYUNG-DUK ZOH, Seoul National University, Seoul/ROK
18479	Synchronous removal of CuO nanoparticles and Cu²⁺ by polyaluminium chloride-Enteromorpha polysaccharides: Effect of Al species and pH Yuanxia Luo, Shandong University, Qingdao, Shandong province/CN; Prof. Baoyu Gao, Shandong University, Qingdao, Shandong province/CN; Jie Wang, Shandong University, Qingdao, Shandong province/CN; Qinyan Yue, Shandong University, Qingdao, Shandong province/CN
18490	Flow-Through Electrode System (FES) for High Efficient Disinfection of Reclaimed Water Xinye Ni, School of Environment, Tsinghua University, Beijing/CN; Prof. Dr. Hongying Hu, School of Environment, Tsinghua University, Beijing/CN
18534	Innovative treatment scheme for Water reuse in the petrochemical industry Dr. Veronica Gomez, The Dow Chemical Company, La Canonja - Tarragona/E; David Arias, The Dow Chemical Company, La Canonja, Tarragona/E; Elisenda Taberna, Veolia Water Technologies, Sant Cugat del Vallès/E; Joan Sanz, Veolia Water Technologies, Sant Cugat del Vallès/E; Dr. Carme Bosch, CTM Foundation - EURECAT, Manresa/E; Montse Calderer, CTM Foundation - EURECAT, Manresa/E; Xavier Martínez, CTM Foundation - EURECAT, Manresa/E
18588	Improvement of energy efficiency of electrochemical industrial wastewater treatment Dennis Haupt, CUTEC Clausthaler Umwelttechnik Forschungszentrum, Clausthal-Zellerfeld/D; Thorben Muddemann, TU-Clausthal, ICVT, Clausthal-Zellerfeld/D; Kunz Ulrich, TU-Clausthal, ICVT, Clausthal-Zellerfeld/D; Prof. Michael Sievers, CUTEC Clausthaler Umwelttechnik Forschungszentrum, Clausthal-Zellerfeld/D

18624	Is Biochar adsorbent a viable option for removal of emerging contaminants from treated wastewater? Sandeep Reddy Yanala, University of Nevada, Reno., Apt#6/USA;Prof. Dr. Krishna Pagilla, University of Nevada, Reno., Reno/USA
18895	Water Structures & Membrane Systems - Rising Performance with Catalytic Water Treatment - Jan Koppe, MOL Katalysatortechnik GmbH, Schkopau/D;Gioia Battagello, MOL Katalysatortechnik GmbH, Schkopau/D
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19029	An innovative bioreactor for sustainable industrial wastewater treatment finalized to water reuse and resource recovery Dr. Maria Concetta Tomei, Water Research Institute of the Italian National Research Council, Monterotondo Stazione Roma/I;Domenica Mosca Angelucci, Water Research Institute of the Italian National Research Council, Monterotondo Stazione Roma/I
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19129	Enhanced efficiency of algae-bacteria beads on simulated wastewater treatment and symbiotic growth Song Cao, Tsinghua University, Graduate School of Shenzhen, Shenzhen, Guangdong/CN

19133	Using microstructured yeast as biotemplate for TiO₂ deposition applied on amoxicillin solar photodecomposition Dr. Nilce Ortiz, Institute for Nuclear and Energy Research - IPEN, Sao Paulo/BR;Fernanda Maichin, Institute for Nuclear and Energy Research - IPEN, Sao Paulo/BR;Maria V. Macedo, Institute for Nuclear and Energy Research - IPEN, Sao Paulo/BR
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