

Sunday 28.6

19:30

Registration / Organ concert in Cathedral / Reception

Monday 28.6

08:00 11:00

(registration)

Opening ceremony

Plenary lecture:

Chung-Hak Lee

Paradigm shift in biofouling control in membrane processes for water environment

Coffee break

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|---------------------------|--|---|--|---|
| 11:10 | S-1-1 : 144232 (To be confirmed) | S-2-1 : 151494 Morgane Boulestreau Demonstration of a 5 m3/d Gravity-driven Ultrafiltration Unit for Decentralised Water Supply | S-3-1 : 150506 Anja Drews A Review on Membrane Fouling in MBRs - Characterisation, Contradictions, Cause and Innovative Cures | S-4-1 : 150620 Wolfgang Uhl Treatment of swimming pool water with hybrid UF-processes and the effect on particles and disinfection by-products |
| 11:30 | S-1-2 : 144333 Marc Antoine Optimized RO Membrane Operation | S-2-2 : 155749 Zhanfeng Cui Emergency drinking water devices based on membrane technology | S-3-2 : 150161 Pierre Le-Clech Fouling Layer Analysis for Better Characterization of Biopolymers in Membrane Bioreactors | S-4-2 : 149806 Nico Wolthek Successful application of submerged ultra filtration membranes in backwash water recycling |
| 11:50 | S-1-3 : 150658 Desmond Lawler Improving Recovery in Inland Desalination: Intermediate Treatment Options | S-2-3 : 151605 Maryna Peter-Varbanets Impact of transmembrane pressure and membrane cut-off on the structure of the fouling layer formed during ultra-low pressure ultrafiltration | S-3-3 : 150588 Alain Grasmick Sustainable MBR operation: Different scales of observation for a better fouling control | S-4-3 : 150142 Steven Van Geluwe Nanofiltration concentrate treatment for increasing the water recovery in drinking water production |
| 12:10 | S-1-4 : 146531 Götz Lange Industrialized modules for MED Desalination with polymer surfaces | S-2-4 : 156019 Patrick Sauvade Cellulose acetate membrane : a green process applied on drinking water treatment | S-3-4 : 149502 Xiaochang C Wang Influence of activated sludge characteristics on membrane fouling in a hybrid membrane bioreactor | S-4-4 : 155777 Alexei Pervov Modification of membrane channel as a way to reduce fouling, concentrate flow and operational costs |
| 12:30 | S-1-5 : (To be confirmed) | S-2-5 : 150315 Yoshinori Nishida Enhanced virus removal by ultrafiltration with two steps coagulation in water reclamation process | S-3-5 : 150146 Giuseppe Guglielmi Impact of aeration on the critical flux of a cost-effective side-stream multi-tube MBR for municipal wastewater treatment | S-4-5 : 150397 Andriy Yaroshchuk New protocol for tangential electro-kinetic measurements with porous membranes and their advanced interpretation |
| 13:00 | Lunch | | | |
| 14:00 | S-1-6 : 155607 Sergio Salinas Rodríguez Flux dependency of particulate/colloidal fouling in seawater reverse osmosis systems | S-2-6 : 155373 Jean-Christophe Schrotter Toward the development of Virus challenge tests at lab and pilot scale to follow-up membrane performance during operation | S-3-6 : 150553 Antoine Kemperman Visualization of liquid flows and air sparging in spacer filled channels using a video system and Particle Image Velocimetry | S-4-6 : 150172 Jack Gilron RO-ED-UF-WAIV hybrid for near-ZLD brackish water desalination |
| 14:20 | S-1-7 : 155426 Tarek Waly Predicting CaCO ₃ scaling:Towards a correct pH calculation in SWRO concentrates | S-2-7 : 147198 Martin Heijnen Calculating the particle log reduction value for membrane installations based on on-line pressure decay tests: how sensitiv is this integrity test and how many fibre breaks can your system tolerate? | S-3-7: (To be confirmed) | S-4-7 : 151776 Bob Lovitt Effect of membrane surface charge on filtration of heavy metal ions in the presence and absence of polyethylenimine |
| 14:40 | S-1-8 : 149613 Yang Zhang Pilot Study on Treatment of RO Concentrate with High Scaling Potential by Electrodialysis | S-2-8 : 143922 Denis Guibert Integrity Management for Low Pressure Membrane Plants: How to select LRV parameters and their impacts on plant operation. | S-3-8 : (To be confirmed) | S-4-8 : 155882 Stefan Panglisch Investigations to optimize the use of Powdered Activated Carbon in combination with Ultrafiltration |
| 15:00 | S-1-9 : 150611 Matan Beery Membrane pretreatment of seawater for reverse osmosis desalination: Can you lose the coagulant? | S-2-9: 149315 Nele Daels Performance Assessment of Functionalized Electrospun Nanofibres for Removal of Pathogens | S-3-9: 197928 Liv Fiksdal Monitoring of biofouling on hollow fiber membranes by rapid enzyme activity assays | S-4-9 : 150631 Christian Kazner Comparing bulk and trace organic removal by PAC/NF, GAC/NF and NF/GAC treatment for water reclamation |
| 15:20 | Coffee break | | | |
| 16:00 | S-1-10 : 146746 Peter Czermak Multistage Filtration Process for Efficient Treatment of Oil-Field Produced Water Using Ceramic Membranes | S-2-10 : 145384 Peter Hillis Upgrading the longest running Microfiltration plant in the United Kingdom | S-3-10 : 149947 Miyoshi Taro Metaproteomic analysis of proteins causing physically irreversible fouling in membrane bioreactors (MBRs) | S-4-10 : 150568 Hendrik Paar Pre-coagulation and ultrafiltration of effluent impaired surface water for phosphorous removal and fouling control |
| 16:20 | S-1-11 : 151517 Monruedee Moonkhum Fouling Morphological Monitoring during Seawater Reverse Osmosis Desalination Process | S-2-11 : 147268 Shengji Xia Ultrafiltration of surface water by coagulation pretreatment in Ducun, China | S-3-11 : 150770 Juan Manuel Garrido Three stages MBR (methanogenic, aerobic biofilm and membrane filtration) for the treatment of municipal wastewaters | S-4-11 : 150567 Martin Jekel The effect of pre-ozonation and subsequent coagulation on the filtration of WWTP effluent with low-pressure membranes |
| 16:40 | S-1-12 : 149811 Wolfgang Gernjak Change of Performance and Properties of Reverse Osmosis Membranes after Exposure to Free Chlorine | S-2-12 : 197931 Thomas Meyn Direct surface water treatment with coagulation/ceramic microfiltration - Minimisation of flocculation pre-treatment | S-3-12: 164338 David Waite Iron speciation and iron species transformations in activated sludge membrane bioreactors | S-4-12 : 155165 Pengkang Jin A compact A2O system combining with a MBR for water reclamation in a local town in northwestern China |
| (17:00) 17:30 19:00 | Poster session | | | |

Tuesday 29.6

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| 09:00 | S-5-1 : 151769 Stéphanie Laborie Study and analysis of effects of fouling on VMD performance to overconcentrate RO retentates | S-6-1 : 148032 Hsuan-Hsien Yeh The effect of preoxidation and calcium ion on membrane filtration of algae suspensions | S-7-1 : 150127 Nima Afrasiabi Arsenic removal from water by nanofiltration | S-8-1 : 150656 Simon Judd Commercial MBR technologies: what have we got (and what else are we going to get)? |
| 09:20 | S-5-2 : 150257 Gloria Fernández Álvarez A Comparative Study of Ultrafiltration and Physicochemical Process as Pretreatment of Seawater Reverse Osmosis. | S-6-2 : 150648 Wen-zheng Yu Effect of enhanced coagulation by KMnO4 on the fouling of ultrafiltration membranes | S-7-2 : 150122 André Lerch Fouling minimised reclamation of secondary effluent with Reverse Osmosis (ReSeRO) | S-8-2 : 155283 Annie Tazi Pain Low pressure membrane processes for the reuse of urban wastewater |
| 09:40 | S-5-3 : 150654 Maarten Nederlof Feasibility of zero liquid discharge application of reverse osmosis | S-6-3 : 150663 Annalisa De Munari Membrane plants for drinking water provision in remote Scottish communities: performance, costs and lessons learnt | S-7-3 : 150163 Watsa Khongnakorn The efficiency and performance of Membrane Bio Reactor (MBR) For serum wastewater in concentrated latex industry. | S-8-3 : 150150 Giuseppe Guglielmi Calibration and validation of an extended ASM3 for long-term modelling in a submerged membrane bioreactor for municipal wastewater |
| 10:00 | S-5-4 : 150035 Suingil Choi Investigation of fouling layer characteristics in forward and reverse osmosis systems | S-6-4 : 151270 Jesús M. Arsuaga Adsorption of phenolic compounds on NF/RO membranes surfaces. Influence upon membrane performance: flux decline and solute rejection | S-7-4 : 150590 Junkal Landaburu-Aguirre Simultaneous removal of heavy metals by MEUF from drainage water of a fertiliser company. Statistical design of experiments | S-8-4 : 149572 Fook-Sin Wong An Integrated UASB-MBR System for Wastewater Reuse and Recycling |
| 10:20 | Coffee break | | | |
| 11:10 | S-5-5 : 150173 Peter Sancio Enhancement of Reverse Osmosis Water Recovery using Interstage Calcium Precipitation | S-6-5 : 150096 Sangyoun Lee Determination of chemical surface heterogeneity of RO membranes by dynamic hysteresis as well as atomic force microscopy (AFM) and its relation to membrane fouling | Aqu4use 1 Willy van Tongeren Membrane processes and Sustainable Water use in Industry | S-8-5 : 150653 Arjen van Nieuwenhuijzen Flat sheet or hollow fibre comparison of two membrane bioreactor configurations |
| 11:30 | S-5-6 : 197752 Koos Baas Research of phosphorus free antiscalant 4Aqua BD25 at a aerobic ground water RO drinking water plant, The Netherlands | S-6-6 : 150910 Fabián Neira Water Treatment for Drinking: Emerging Compounds removal with Nanofiltration technology, The Tula Valley case | Aqu4use 2 Benjamin Simstich Membrane technology state of the art in the European paper industry — Current research results from AquaFit4Use and other R&D projects | S-8-6 : 150130 Pia Lipp Improved elimination of organic micro pollutants by a process combination of membrane bioreactor (MBR) and powdered activated carbon (PAC) |
| 11:50 | S-5-7: 151797 Bas Heijman Variable flux for seawater desalination with sustainable energy | S-6-7 : 142137 Mike Dixon Integrated membrane systems incorporating coagulation/flocculation, activated carbon and microfiltration for the removal of cyanobacterial metabolites from drinking water | Aqu4use 3 H. De Wever Fouling and robustness investigations during membrane bioreactor pilot testing on chemical wastewater | S-8-7 : 144377 Eve Germain Membrane energy & chemical consumption optimisation for a potential Indirect Potable Reuse scheme in London |
| 12:10 | S-5-8: 147651 Bastiaan Blankert Efficient Performance Technology: High Flux and Coagulant-free Ultrafiltration for Potable and Process Water treatment | S-6-8 : 49812 Maria Jose Farre Fate of NDMA and its precursors across UF/RO membranes during the production of high quality recycled water | Aqu4use 4 Markus Engelhart NF membrane treatment of biologically treated effluents in two paper board mills | S-8-8 : 149658 Emmanuel Van Houtte Long time membrane experience at Torreele's water re-use facility in Belgium |
| 12:30 | S-5-9: 148917 Sheng Li Application of backwashing with demineralized water for UF fouling control in UF-RO desalination | S-6-9 : (To be confirmed) | Aqu4use 5 Ruth Ordoñez Comparison of ultrafiltration and dissolved air flotation efficiencies in the papermaking process | S-8-9 : 150570 Ulrich Mende Compact tertiary treatment based on the combination of MBBR and contained hollow fibre UF-membranes |
| 13:00 | Lunch | | | |
| 14:00 | S-5-10 : 156398 Peter Huck Seasonal Performance of Biofiltration Pre-treatment to Reduce Fouling for UF Membranes Used for Drinking Water Treatment | S-6-10 : 155156 Asiful Hoque Effect of Hydraulic Condition on Membrane Fouling in Airlift Side-Stream Membrane Bioreactor | S-7-05 : 149975 Adham Samer Role of Membrane Technology in the Petroleum Industry | S-8-10 : 151252 Matthieu Jacob Impact of micropollutant contamination on MBR and reverse osmosis fouling and retention for domestic wastewater reuse |
| 14:20 | S-5-11 : 150050 Emilie Cornelissen Channeling due to particulate fouling and biofouling in spiral wound membrane elements | S-6-11 : 146245 Pierre Berube Surface Shear Forces Distributions in Submerged Hollow Fiber Membrane Systems for Intermittent and Continuous Sparging Conditions | S-7-06 : 147715 Abdolhamid Salahi Aboalvardi Refinery oily wastewater treatment | S-8-11 : 150107 Giuseppe Laera Pharmaceutical wastewater treatment with integrated MBR-ozonation process |
| 14:40 | S-5-12 : 147267 Loreen Villacorte Detection of Transparent Exopolymer Particles (TEP): a promising diagnostic tool for organic/biological fouling studies in UF and RO systems | S-6-12 : 150055 André Lerch Deposition behaviour of flocs and particles - On the influences of fluid flow direction of the feed and alignment of the membrane capillaries | S-7-07 : 144593 Abdul Wahab Mohammad Adsorptive Fouling Of Palm Oil Based Fatty Acids During Ultrafiltration Of Glycerin-Rich Solution | S-8-12: 150065 Bart Verrecht Validation of effluent quality and energy optimisation simulations for a small scale MBR |
| 15:00 | S-5-13 : 156533 J S Vrouwenvelder Restricting the impact of biofouling on spiral wound membranes: new tools and insights | S-6-13 : (To be confirmed) | S-7-08 : 147193 Martin Heijnen Optimisation of the geometrie of a polymeric Multibore ultrafiltration membrane and its operational advantages over standard single bore capillaries | S-8-13 : 150609 Isabelle Baudin Industrial Water Reuse: Performance of Low Pressure Membrane prior Demineralised System |
| 15:20 | Coffee break | | | |
| 16:00 | S-5-14 : 149778 Ramila Peiris Assessing Irreversible Fouling Behaviour of Membrane Foulers in the Ultrafiltration of Natural Water using Principal Component Analysis of Fluorescence Excitation-Emission Matrices | S-6-14 : 150124 Rinnert Schurer Evides Pilot Seawater Desalination: efficacy of coagulant in ultrafiltration pre-treatment in integral UF-RO membrane desalination | S-7-09: 150580 Giuseppe Laera Application of sequencing batch membrane bioreactors (SB-MBR) for the treatment of municipal wastewater. | S-8-14 : 150613 Paul Steinberger Application of reverse osmosis and nanofiltration in the treatment of acid rock drainage |
| 16:20 | S-5-15 : 150174 Jack Gilron Gypsum scaling of LPRO membranes biofouled by tertiary municipal wastewater | S-6-15 : 150061 Seungkwan Hong Development of multiple membrane array system for fouling assessment in RO applications | S-7-10 : 150466 Henrik Grüttner Two-stage membrane filtration system for integrated closed loop applications in wet textile industry | S-8-15 : 149805 Roman Boda Use of Color Removal Membranes on Waste Water Treatment in the Pulp and Paper Industry |
| 16:40 | S-5-16 : 150660 Katariina Majamaa Three Steps to Control Biofouling in Reverse Osmosis Systems | S-6-16 : 149774 Abdulsalam Al-Hadidi SDI: is it a reliable fouling index? | S-7-11 : 143018 Olivier Lorain A New Membrane Module Design to Reduce Capital Investment and Operative Costs in Drinking Water Production : Hydraulics and Rejection Performances | S-8-16 : 139368 Nor Ramli Experimental study of the ultrafiltration for bi-disperse silica systems |
| (17:00:00) | | | | |
| 20:00 | Conference dinner - Rica Nidleven Hotel | | | |

Wednesday 30.6

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| 09:00 | S-9-1 : 151171 Juan Manuel Garrido Fernández Treatment of primary settled municipal wastewater in a MBR at short HRT | S-10-1 : 1 (To be confirmed) | S-11-1 : 151813 Jochen Meier-Haack The impact of surface functionalization of sulfonated poly(ether sulfone) membrane with polyelectrolytes on salt rejection and permeate flux | |
| 09:20 | S-9-2 : 150495 Raquel López Removal of 17-β estradiol from wastewater: laboratory scale comparison between Complete Mixed Activated Sludge and Membrane Bioreactor | S-10-2 : 150164 Pierre Le-Clech Relative contribution of trace organics adsorption on macromolecules during wastewater recycling by nanofiltration membranes | S-11-2 : 150396 Andriy Yaroshchuk Prospects for the application of ultra-filtration with charged nano-porous membranes in the production of ultrapure water (deep deionization) | |
| 09:40 | S-9-3 : 149794 Mehrdad Hesampour Treatment of synthetic herbicides wastewater in a membrane bioreactor (MBR) | S-10-3 : Bas Hofis Comparison of direct water treatment performance of ceramic and polymeric MF membranes | S-11-3 : 150405 Luz Marina Ruiz Respirometric assays of two different MBR (ultrafiltration and microfiltration) to obtain kinetic and stoichiometric parameters | |
| 10:00 | S-9-4 : 150129 Tetsuji Okuda Foulant reduction by the Oxidation using O3 and H2O2 in MBR with Ceramic Membrane | S-10-4 : (To be confirmed) | S-11-4 : 197927 Igor Ivanovic Impact of denitrification on the performance of a biofilm-MBR | |
| 10:20 | Coffee break | | | |
| 11:10 | S-9-5 : 151511 Anna Trusek-Holownia Proposed types of MBR in biodegradation of VOCs. | S-10-5 : (To be confirmed) | S-11-5 : 150155 Udo Kolbe First 6 month of experience of a combined Ultrafiltration and Reverse Osmosis system in a beverage plant in Egypt | |
| 11:30 | S-9-6 : 149656 Anja Drews Investigation of the sludge thickening potential of waste activated sludge using membranes | S-10-6 : (To be confirmed) | S-11-6 : 150135 Patrick Buchta Optimisation of operational parameters of the in-out ultrafiltration of tertiary waste water applying different capillary diameters results of 8 month pilot testing. | |
| 11:50 | S-9-7 : (To be confirmed) | S-10-3 : (To be confirmed) | S-11-7: 151812 Miguel Minhalma Treatment of Cork Processing Wastewater: Assessment of its biodegradability, Recycling and Sub-Products Recovery | |
| 12:10 | S-9-8 : (To be confirmed) | S-10-4 : (To be confirmed) | S-11-8: 149960 Pedro Garcia-Algado Holographic Interferometry visualization of PEG-10000 accumulation on an acetate cellulose membrane: polarization layer and adsorption. | |
| 12:30 | Closing ceremony | | | |
| 13:00 | Lunch | | | |