

26 JUNE 2019 (WEDNESDAY)					
	<b>SESSION 30 : OXIDATION/OZONATION</b> Venue: Room Guillaumet 1 Session Chairs: H. K. Shon (Australia), M. Monnot (France),	<b>SESSION 31: WASTE WATER REUSE</b> Venue: Room Guillaumet 2 Session Chairs: T. Leiknes (Saudi Arabia), K. Kimura (Japan)	<b>SESSION 32: RENEWABLE ENERGIES</b> Venue: Room Argos Session Chairs: A. Schafer (Germany), A. Ahmadi (France)	<b>SESSION 33: RESOURCE RECOVERY</b> Venue: Room Spot Session Chairs: S. Vigneswaran (Australia), I. Koyuncu (Turkey)	<b>SESSION 34: MEMBRANE AGING AND LIFE CYCLE</b> Venue: Room Diamant Session Chairs: C. Causserand (France), P. Le Clech (Australia)
8:30-9:00	<b>Microwave-enhanced Reactive Membrane Filtration Systems</b>  W. Zhang, W. Fu (USA)	<b>Keynote: The Application of Membrane Bioreactors in Potable Water Reuse</b>  S. Katz (Canada)	<b>Keynote: Directly-coupled solar powered membrane systems: experience with fluctuating energy in Tanzania</b>  A.I. Schafer, (Germany)	<b>Keynote: Rubidium Extraction From Seawater Brine By An Integrated Membrane Distillation-Selective Sorption System</b>  S. Vigneswaran (Australia)	<b>Keynote: Impact of chemical cleaning by oxidative agents on properties and lifetime of polymeric membranes</b>  C. Causserand (France)
9:00-9:20	<b>Novel Ceramic Membrane Coated by Nanoparticles for a hybrid ozonation-membrane filtration</b>  F. Qi, Z. Song, Y. Guo (China)	<b>Reclamation of Biological Secondary Effluent from the Municipal Wastewater Plant</b>  C.H. Ni, Y.C. Lin, J.C.T. Liu (Taiwan)	<b>Solar energy fluctuations impact on osmotic backwash in renewable energy-powered brackish water NF/RO desalination system</b>  Y. Cai, A.I. Schafer (Germany)	<b>Toward Resource Recovery from Wastewater: Rare Earth Element Potentials and Membrane Technology for the Separation</b> A. Yuksekdog, B. Kose-Mutlu, M.R. Wiesner, I. Koyuncu (Turkey, USA)	<b>Membrane replacement: is changing membrane technology a big issue?</b>  Y. Poussade, D. Decerle, L. Le-Grand, A. Le-Person (France)
9:20-9:40	<b>Membrane filtration coupled with wet air oxidation for intensified treatment of refractory effluents</b> M. Monnot, C. Pinchai, S. Lefevre, O. Boutin, P. Moulin (France)	<b>Highly selective and antifouling reverse osmosis membrane for domestic-wastewater reclamation</b> N.K. Khanzada, M.U. Farid, A.K. An (Hong-Kong)	<b>Photovoltaic electrocoagulation treatment of a textile wastewater at high concentrations</b> B. Merzouk, B. Khemila, F. Lapique (Algeria, France)	<b>Treatment of Acid Mine Drainage with Membrane Distillation: Water Reuse and Resource Recovery</b> G. Naidu, E.H.C. Castillo, D.L. Nghiem, S. Vigneswaran (Australia)	<b>Natural Viruses for Monitoring the integrity of Reverse Osmosis</b>  E. Cornelissen, T.R. Da Silva, B. Blankert, L. Heijnen, E.F. Beerendonk, L.M. Hornstra, G.J. Medema (Netherlands, Singapore, Belgium, Portugal)
9:40-10:00	<b>Bubble-less ozonation with non-porous membranes: Experiments and CFD modelling</b> G. Zoumpouli, S.S.X. Ho, Y.M. J. Chew, J. Wenk (UK)	<b>New RO Membrane with Improved Fouling Resistant and Low Energy Consumption for Wastewater Reclamation</b> S. Huang, Y. Yang, K. Nakatsuji, H. Takabatake, J. Okabe, M. Kimura, L. Zhu (China, Japan)	<b>Pre-treatment by solar-UV irradiation for biofouling control in desalination processes with thin film composite membranes</b> B. Skibinski, N. Siebrath, E. Bodner, Q. Yang, K. Zoschke, P. Hua, S. Tredte, A. Lerch (Germany)	<b>A MBR with iron dosing and acidogenic co-fermentation for enhanced phosphorus removal and recovery in wastewater</b> X-Y Li, R-H Li (China)	<b>Impact of mechanical properties of hollow fiber membranes on backwash efficiency</b>  T. Vroman, F. Beauce, J.C. Remigy (France)
10:00-10:20	<b>Membrane-dispersion Advanced Oxidation Processes (MAOPs) Treatment on Pulp Wastewater Concentrate from</b> R. Li, Z. Li, Q. Jiang, M. Zhou, W. Xing (China)	<b>Performance of integrated ozonation-ceramic membrane filtration in reclaimed water treatment: Effect of ozonation</b> F. Qi, L.Y. Li, Y. Zhang, Z. Song, Y. Yang (China)	<b>Combined solar driven pervaporation with graphene oxide membrane</b>  B. Lian, Q. Li, R.A. Taylor, G. Leslie (Australia)	<b>Ammonium recovery from process water of digested sludge dewatering by membrane contactors</b> L. Richter, M. Wichern, M. Gromping, U. Robecke, J. Haberkamp (Germany)	<b>Upcycling of previously used reverse-osmosis membranes by the binding of copper nanoparticles with the aid of</b> K. Inoue, M. Kuroiwa, H. Yamamura, A. Yonezu, Y. Watanabe (Japan)
10:20-10:40	Morning break				

26 JUNE 2019 (WEDNESDAY)					
	<b>SESSION 35: SOURCE SEPARATION</b> Venue: Room Guillaumet 1 Session Chairs: How-Yong Ng (Singapore), C. Joannis-Cassan (France)	<b>SESSION 36 : ANAEROBY MBR</b> Venue: Room Guillaumet 2 Session Chairs: J. Kim (Korea), H-Y. Ng (Singapore)	<b>SESSION 37: SOLAR MEMBRANE DISTILLATION</b> Venue: Room Argos Session Chairs: A. Schafer (Germany), C. Cabassud(France)	<b>SESSION 38: FORWARD OSMOSIS/RO/ PRO</b> Venue: Room Spot Session Chairs: H K. Shon (Australia), L. D. Nghiem (Australia)	<b>SESSION 39: MBR MODELLING</b> Venue: Room Diamant Session Chairs: G. Mannina (Italy), M. Heran (France)
10:40-11:10	<b>MBR performances in wastewater source-separation scheme</b>  <u>C. Joannis-Cassan</u> , N. Gambier, C. Guigui (France)	<b>Keynote: Importance of fluidized media for anaerobic fluidized MBR: Fouling control, microbial distribution and system performance</b> J. Kim (Korea)	<b>Keynote: Integrated solar heating vacuum membrane distillation for remote places: issues and perspectives</b>  C. Cabassud (France)	<b>Keynote: GreenPRO for osmotic pumping employing fertilizer draw solution</b>  H- K. Shon (Australia)	<b>Keynote: Frontiers and new perspectives in MBR modelling and control</b>  G. Mannina (Italy)
11:10-11:30	<b>Producing ammonia nitrate liquid fertilizer from urine using MBR</b>  <u>J. Li</u> , X. Cui, Y. Li, K. Xu, C. Wang (China)	<b>Performance Evaluation of Anaerobic Membrane Bioreactor for Domestic Wastewater Treatment</b> <u>S.J. Khan</u> , A. Aslam (Pakistan)	<b>Enhancing solar membrane distillation performance using core-shell nanofibers</b>  <u>R. Xin</u> , Y. Chen, K. Zuo, K. Tung, Q. Li (USA, Taiwan)	<b>Forward osmosis with high concentration draw solution recovery system</b>  C. Patrut, <u>L. Van Dijk</u> , C. Kazner, R. Wunsch, M. Pastur, J. Palacin, J. Kochan, F. Zorn, S. Vila, C. Niewersch, J. Koppe (European consortium)	<b>Statistical modelling of a semi-industrial scale membrane bioreactor using fuzzy inference methods</b> <u>M. Alliet</u> , E. Suard, Y. Fayolle, S. Guerin, H. Jones, S. Guillaume, V. Rocher, C. Albasi, S. Gillot (France)
11:30-11:50	<b>Membrane bioreactor for urinary nitrogen stabilization: microbial acclimation and system performance</b>  <u>G. Lesage</u> , C. Jacquin, M. Monnot, F. Zaviska, T. Merle, G. Lesage, M. Heran (France, Switzerland)	<b>Effect of ultrafiltration membrane material on fouling dynamics in submerged anaerobic MBR treating domestic wastewater</b> <u>A.D. Grossman</u> , Y. Yang, D. Calero Camarena, G. Oron, R. Bernstein (Israel)	<b>Vacuum-enhanced air-gap membrane distillation as a viable solution for solar desalination</b>  <u>G. Zaragoza</u> , J.A. Andres-Manas, F.G Acien, A. Ruiz-Aguirre (Spain, Italy)	<b>Forward osmosis for wastewater concentration: lab and pilot case studies</b>  <u>G. Blandin</u> , E. Onishchenko, F. Ferrari, E. Mendoza, G. Buttiglieri, J. Comas, I. Rodriguez-Roda (Spain)	<b>Fuzzy logic control for energy saving in submerged membranes</b>  H. Monclus, A. Galizia, G. Blandin, O. Lorain, M. Verdaguer, M. Poch, I. Rodriguez-Roda, J. Comas (Spain, France)
11:50-12:10	<b>Techno-economic feasibility of recovering phosphorous, nitrogen from urine via forward osmosis</b>  <u>F. Volpin</u> , L. Chekli, M.A.H. Jahir, S. Phuntsho, J. Cho, N. Ghaffour, J.S. Vrouwenvelder, H-K. Shon (Australia, Korea, Saudi Arabia)	<b>Size-Dependent Microbial Diversity of Sub-Visible Particles in a Submerged Anaerobic MBR: Implications for Membrane Fouling</b>  Z. Zhou, Y. Tao, <u>Y. Xiao</u> , F. Meng, D. Stuckey (China, Singapore, UK)	<b>Insight on thermoplasmonic effects in photothermal membrane distillation</b>  <u>D. Elmagrahouj</u> , S. Jaziri, A. Politano (Tunisia, Italy)	<b>Quantitative Analysis on the Irreversible Membrane Fouling of FO for WW Reclamation: Applicability of the Modified Fouling Index</b> <u>M. Zhan</u> , G. Gwak, S. Hong (Korea)	<b>CFD simulation of aeration process and baffle influence in a full-scale commercial flat sheet module</b>  <u>Y. Cao</u> , B. Gu, A. Sonnenburg, W. Urban (Germany)
12:10-12:30	<b>Combination of membrane processes and ozonation for source-separated urine valorization</b> <u>H. Deng</u> , H. Hoang, J.S. Pic, C. Guigui (France)	<b>Characterization of AnMBR effluent: Towards post-treatment and reuse possibilities of municipal wastewater</b> N. Zamanfar, P. Dolejs, J. Bartacek, J. Hejnic, P. Zednicek, M. Vojtiskova, E.A. Garmendia, M. Pecenka, J.R. Ambrozova, R. Grabic (Czech Rep.)	<b>Photocatalytic PVDF-based nanocomposite membranes with advanced antifouling properties under visible light irradiation</b> J. Yin, W. Xiaofeng, P. Wan, <u>B. Deng</u> (USA)	<b>Sacrificial coating development for biofouling control in RO membranes</b>  <u>M.F. Nava-Ocampo</u> , S.S. Bucs, A.S.F. Farinha, M. Son, B. Logan, J. Vrouwenvelder (Saudi Arabia, USA)	<b>CFD modelling of a novel aeration system in full-scale FS sMBR to reduce the uneven shear stress distribution</b> <u>M. Liu</u> , Y. Wei, M. Chen, D. Yi, J. Zheng, J. Chang (China)
12:30-13:30	LUNCH				

26 JUNE 2019 (WEDNESDAY)					
	<b>SESSION 40 : WASTE WATER REUSE</b> Venue: Room Guillaumet 1 Session Chairs: T. Leiknes (Saudi Arabia), Z. Whang (China)	<b>SESSION 41: ANAEROBY MBR</b> Venue: Room Guillaumet 2 Session Chairs: J. Kim (Korea), H-Y. Ng (Singapore)	<b>SESSION 42: PHOTO-CATALYSIS</b> Venue: Room Argos Session Chairs: J. Crespo (Portugal), M. Fidalgo (USA)	<b>SESSION 43: FOULING in RO</b> Venue: Room Spot Session Chairs: E. Cornelissen (Netherlands), H. Buisson (France)	<b>SESSION 44: MBR MODELLING</b> Venue: Room Diamant Session Chairs: G. Mannina (Italy), M. Heran (France)
13:30-14:00	<b>Keynote: Water reclamation and reuse for urban agriculture; pros and cons, opportunities or unsustainable?</b> T. Leiknes, (Saudi Arabia)	<b>Keynote: Challenges and Improvements in AnMBR Operations</b> H-Y. Ng (Singapore)	<b>Keynote: Development of photocatalytic membranes and reactors for water and wastewater treatment</b> J. Crespo (Portugal)	<b>Keynote: Novel Feed Spacers Design for Fouling Mitigating in Membrane Filtration</b> N. Ghaffour (Saudi Arabia)	<b>Keynote: Steady-state approach for ASM1 states variables calculation in MBR</b> M. Heran (France)
14:00-14:20	<b>Disruptive water reuse scheme based on Direct Ultrafiltration (DUF) of municipal wastewaters</b> Y. Poussade, H. Humbert, I. Saudrais, C. Daines, F. Boisquillon, H. Faujour (France, United Arab Emirates)	<b>Removal and biotransformation pathway of antibiotic Sulfamethoxazole in anaerobic membrane bioreactor</b> C.H. Wei, C. Sanchez-Huerta, T. Leiknes, H. Rong, Q. Fang (China, Saudi Arabia)	<b>PVDF-TiO2 photocatalytic membrane performances with pure water - A cost/efficiency study</b> J-P. Mericq, D-T Tran, J. Mendret, C. Faur, S. Brosillon (France)	<b>MRI &amp; NMR investigation of early fouling in spiral wound reverse osmosis membrane modules</b> N. Bristow, J.S. Vogt, S.S. Bucs, J.S. Vrouwenvelder, M.L. Johns, E. Fridjonsson (Australia, Netherlands)	<b>pH-control for acclimation of sludge to high nitrogen content in a MBR: A modeling approach.</b> J.D. Arce Velasquez, J. Laurent (France)
14:20-14:40	<b>Capacitive-deionization-enhanced ultrafiltration for advanced wastewater reclamation</b> M. Li, S. Liang (China)	<b>Quorum quenching in anaerobic membrane bioreactors (AnMBRs) for resilience to toxic shocks</b> Y. Xiao, Z. Zhou, D. Stuckey (China)	<b>Expanding the use of Ceramic Membranes</b> H. Gray, T. Powell (Canada)	<b>Interaction between dissolved silica and alginate in reverse osmosis fouling</b> S. Wang, X. Huang, M. Elimelech (China, USA)	<b>Progress towards standards in integrated (aerobic) MBR modelling</b> C. Brepols, Q. Comas, J. Harmand, M. Heran, A. Robles, I. Rodriguez-Roda, M.V. Ruano, I. Smets, G. Mannina (European Consortium)
14:40-15:00	<b>Development of an electrochemical dynamic membrane filtration system for simultaneous separation and disinfection</b> Q. Lei, Z. Wang (China)	<b>Performance of a high solid content forward osmotic membrane bioreactor for sludge anaerobic digestion</b> H. Zhu, J. Zhao (China)	<b>Photocatalysis for MBR Post-Treatment: Effect of membrane state on Effluent Organic Matter quenching</b> M. Maghsoodi, C. Jacquin, B. Teychene, G. Lesage, M. Heran, V. Tarabara, S.D. Snow (USA, France)	<b>ATR Spectroscopy of Membrane Fouling: Deconvolution of ATR Spectra of the Substrate and Fouling Films</b> G.V. Korshin, H. Guo, X. Tang (USA, China)	<b>Evaluation of a resource efficient deoxygenation MBR zone using trials and simulation</b> S.L. Andersson, K. Westling, S. Andersson, E. Lindblom, S. Taylor (Sweden)
15:00-15:20	<b>Low-energy desalination process by the membrane capacitive deionization process for domestic wastewater reuse</b> C.-H. Hou, C.-S. Fan, Y. Chao (Taiwan)	<b>Nitrogen removal and microbial population dynamics in a bacterial-algal membrane-aerated biofilm reactor (BA-MABR)</b> R. Wang, X. Cheng, Y. Ren, C. Ma, X. Zeng (China)	<b>Self-cleaning electrospun BiOBr/Ag photocatalyst membrane applied for textile wastewater treatment</b> J. Guo, D.Y.S. Yan, F.L.-Y. Lam, B.J. Deka, A.K.J. An (China)	<b>Fouling behavior of isolated organic fractions from seawater in reverse osmosis (RO) desalination process</b> W. Yin, E. Cornelissen, H.Chong Tzzy (Singapore, Belgium)	<b>CFD Modelling of a Bench Scale Vibratory MBR Module</b> R. Kaya, V. Tarabara, I. Koyuncu (Turkey, USA)
15:20-15:40	Afternoon break				
26 JUNE 2019 (WEDNESDAY)					
PLENARY AND CLOSING CEREMONY					
15:40-16:20	PLENARY 5 : Water and circular economy: the new frontier for membranes, Prof. Emeritus Roger BEN AIM (IFTS), France				
16:20-17:00	CONFERENCE CLOSING and AWARDS for best Student presentations				