

# 9th International Water Association (IWA) Membrane Technology Conference & Exhibition for Water and Wastewater Treatment and Reuse

June 23-27, 2019 – TOULOUSE, FRANCE

## Conference Program

23 JUNE 2019 (SUNDAY)	
	Optional Guided Tours
	WELCOME RECEPTION
19:00-20:30	Venue = Pierre Baudis Conference Center, Room Caravelle I
24 JUNE 2019 (MONDAY)	
	CONFERENCE OPENING AND PLENARY
	Venue : Auditorium Saint Exupéry
9:15-9:40	Welcome addresses: Corinne CABASSUD, Conference Chair; Xia HUANG, IWA-MT Group Chair
9:40-10:10	PLENARY 1 : Novel membranes for various processes and their benefits for water applications Prof. Rong WANG, Nanyang Technological University (NTU), Singapore
10:10-10:40	PLENARY 2 : Technological success stories in 21st Century Africa: How to make the dream come true for membranes? Dr. Abdoulaye DOUCOURE, president of the African Membrane Society
10:40-11:10	Morning break
	PLENARY and PANEL DISCUSSIONS
11:10-11:40	PLENARY 3 : Integrating Systems of Water Reuse and Desalination: Water/Energy or Regulations/Footprint? Prof. Amy CHILDRESS, University of Southern California, USA
11:40-12:10	PLENARY 4 : Membranes under Pressure : Membranes in Drinking Water Treatment Prof. Emile CORNELISSEN, KWR Watercycle Research Institute, Netherlands
12:10-12:40	PANEL DISCUSSIONS
12:40-14:00	LUNCH

24 JUNE 2019 (MONDAY)					
	SESSION 1 : DRINKING WATER TREATMENT	SESSION 2: DOMESTIC WASTE WATER TREATMENT	SESSION 3: INDUSTRIAL WATER TREATMENT	SESSION 4: DESALINATION	SESSION 5: FOULING CHARACTERIZATION
	Venue: Room Guillaumet 1 Session Chairs: F. Frechen (Germany), A.C. Valentin (France)	Venue: Room Guillaumet 2 Session Chairs: P. Le-Clech (Australia), K. Kimura (Japan)	Venue: Room Cassiopée Session Chairs: V. Frenkel (USA), M. Jacob (France)	Venue: Room Argos Session Chairs: V. Vigneswaran (Australia), J. Gilron (Israel)	Venue: Room Spot Session Chairs: J.S. Vrouwenvelder (Saudi Arabia), A. Lerch (Germany)
14:00-14:30	<b>Keynote: Combat Poverty &amp; improve Social Cohesion in Third World Countries with Membranes</b> Franz Frechen (Germany)	<b>Keynote: Research opportunities for maturing membrane technologies in the water and wastewater industry</b> Pierre Le-Clech (Australia)	<b>Keynote: Membrane technologie: State of the art and areas of future innovations</b> Val Frenkel (USA)	<b>Keynote : Survey of Practice and Experience of Membrane Pre-treatment to Control Bio-fouling for Seawater Desalination</b> Graeme Pearce (UK)	<b>Keynote: Biofouling of membrane systems: diagnosis, prediction and prevention</b> H. Vrouwenvelder (Saudia Arabia)
14:30-14:50	<b>Retention and integrity of drinking water production membranes towards nanoparticles and viruses</b> N. Jacquet, Y. Wyart, G. Darracq, S. Wurtzer, L. Moulin, P. Moulin (France)	<b>Energetic refurbishment of an existing large-scale MBR</b> C. Brepols, K. Drensla, A. Janot, H. Schafer (Germany)	<b>Reverse osmosis membrane performance at extreme pH conditions</b> K. Zedda, I. Hegoburu (Germany, Portugal)	<b>Effect of Saline Water Quality on Ion Transport Behavior in Membrane Desalination</b> W. Cheng, X. Lu, R. Epsstein, J. Ma, M. Elimelech (China, USA)	<b>Fouling of colloidal suspensions probed by microPIV and SAXS</b> N. Hengl, C. Rey, S. Baup, A. Dufresne, H. Djeridi, R. Dattani, F. Pignon (France)
14:50-15:10	<b>30 years of evolution in ultrafiltration systems and processes for drinking water treatment</b> P. Sauvade, F. Coehlo, J. Leclerc, D. Bourdiol, A.C. Valentin (France)	<b>Energy and resource efficient biosorption and low energy step-feed membrane bioreactor system</b> G. Tao, C. Htoo, K.M. Phua, S.C. Chua, Y.L. Wah, K.E. Ooi, H. Seah (Singapore)	<b>Forward osmosis treatment of wastewaters from a semiconductor manufacturer</b> A. Haupt, F. Winkler, A. Lerch (Germany)	<b>Economic feasibility of osmotic desalination in off-grid locations</b> P. Pazouki, R.A. Stewart, E. Bertone, F. Helfer (Australia)	<b>At-line sensor for membrane biofouling detection using fluorogen-substrate cleavage</b> L. Fortunato, B. Khan, T. Leiknes (Saudi Arabia)
15:10-15:30	<b>Drinking water treatment solution using low pressure NF on colored surface waters</b> M. Suarez, P. Sauvignat, A. Gaid, J. Goirand, H. Henrik (France, Sweden)	<b>Membrane fouling reduction in biofilm MBR applying polymeric and monomeric inorganic coagulants</b> Z. Maletsky, H. Ratnaweera, O. Kulesha (Norway)	<b>Treatment of table olive processing wastewater by an osmotic membrane bioreactor</b> S. Donate-Hernandez, L. Pastor-Alcaniz, M.J. Lujan-Facundo, J.L. Soler-Cabezas, M.C. Vincent-Vela, A. Bes-Pia, J. A. Mendoza-Roca (Spain)	<b>Gypsum Scaling in Capacitive Deionization and Membrane Capacitive Deionization</b> E. Liu, L.Y. Lee, S.L. Ong, H.Y. Ng (Singapore)	<b>In-situ visualization of concentration polarization during crossflow UF using micro-laser induced fluorescence</b> X-Y. Li, B-Y. Meng (China)
15:30-15:50	<b>A pilot study of coagulation-UF-NF for Tai Lake water treatment</b> T. Li, B. Gui, B. Dong, C. Staaks (China, Germany)	<b>Direct wastewater treatment by membrane technology</b> P. Sanchis-Perucho, A. Robles, J. Godifredo, R. Barat, D. Aguado, A. Seco, J. Ferrer, A. Bouzas (Spain)	<b>Application of diffusion dialysis in separation of sulfuric acid and copper from electroplating wastewater</b> A. Ruiz-Aguirre, J. Lopez, R. Guecci, S. Randazzo, A. Cipollona, J. L. Cortina, G. Zaragoza, G. Micale (Italy, Spain)	<b>Relationship between efficiency and chemical composition of different antiscalants.</b> E. M. Maya, R. Sandin (Spain)	<b>Characterization and chemical cleaning of irreversible membrane fouling by in-situ SPF-EEM</b> K. Ochiai, Q. Ding, H. Yamamura, Y. Watanabe (Japan)
15:50-16:10	<b>Optical coherence tomography for MF fouling investigation under different pretreatment scenarios</b> B.J. Deka, J. Guo, S. Jeong, A. K.J. An (China)	<b>High-flux operation of an MBR equipped with ceramic flat-sheet membranes</b> Y. Ninomiya, A. Kakuda, K. Kimura (Japan)	<b>Diffusive and Convective Transport of Organics in Ion-Exchange Membranes</b> L. Ma, L. Gutierrez, M. Waqas, A. Verliefde (Belgium)	<b>Influence of different surfactants on original nanofiltration membrane cleaning: performances and properties</b> Z. Gu, S. Yu (China)	<b>Characterization of Fluorescence Foulants on UF Membrane using Front-Face Excitation-emission Matrix (FF-EEM) Spectroscopy</b> H. Yu, Z. Wu, X. Zhang, F. Qu, J. HE, H. Rong, H. Liang (China, Korea)
16:10-16:30	Afternoon break				
16:30-18:00	POSTER SESSION 1 Room: Saint Exupery Foyer				

25 JUNE 2019 (TUESDAY)						
	<b>SESSION 6 : DRINKING WATER TREATMENT</b> Venue: Room Guillaumet 1 Session Chairs: P. Huck (Canada), P. Berg (Germany)	<b>SESSION 7: DOMESTIC WASTE WATER TREATMENT</b> Venue: Room Guillaumet 2 Session Chairs: K. Kimura (Japan), R. Ben Aim (France)	<b>SESSION 8: INDUSTRIAL WATER TREATMENT</b> Venue: Room Diamant Session Chairs: M. Jacob (France), E. Cornelissen (Netherlands)	<b>SESSION 9: DESALINATION</b> Venue: Room Cassiopée Session Chairs: J. Gilron (Israel), M.N. De Pinho (Portugal)	<b>SESSION 10: MEMBRANE DISTILLATION</b> Venue: Room Argos Session Chairs: H.H. Tseng (Taiwan), A. Lerch (Germany)	<b>SESSION 11: FOULING QQ</b> Venue: Room Spot Session Chairs: C.H. Lee (Korea), C. Guigui (France)
8:30-9:00	<b>Keynote: Raising synergy effects in hybrid membrane processes</b>  S. Panglish (Germany)	<b>Keynote: Recovery of organic matter from municipal WW by direct membrane filtration: toward net energy-positive municipal WW</b> K. Kimura (Japan)	<b>Keynote: Membranes in the Oil &amp; Gas industry: Present and Future</b>  Matthieu Jacob (France)	<b>Keynote: IEMB - Donnan Dialysis study of oxyanion removal - Effect of membrane and contacting mode</b>  Jack Gilron (Israel)	<b>Keynote: Omniphobic Membranes for Membrane Contactors</b>  Kuo-Lun Tung (Taiwan)	<b>Keynote: Confronting challenges and future directions in QQ-MBR</b>  Chung-Hak Lee (South Korea)
9:00-9:20	<b>Membrane fouling in integrated adsorption-UF system: Effects of NOM and adsorbent properties</b> K. Li, S. Li, T. Huang, G. Li, H. Liang (China)	<b>Characterization of organic foulants of treated WW and their polyamide membranes' fouling propensity</b> N. Stein, N. Siebdrath, B. Skibinski, A. Lerch, M. Herzberg, R. Bersntein (Israel, Germany)	<b>SiC ceramic membrane grafted with carbon nanotubes for oil-in-water emulsion separation</b> A. Poli, C. Batiot Dupeyrat, A. Ferreira-Santos, M. Jacob, P. Baldoni-Andrey, B. Teychene (France)	<b>Electrical Membrane Separation: Mechanism, Material and Reactor</b> C. Hu, J. Sun, Z. Liu, X. Tan, H. Liu, J. Qu (China)	<b>Utilizing ceramic membranes in Membrane Distillation processes for desalination applications</b> J. Schnittger, M. Weyd, A. Lerch (Germany)	<b>Joint effect of QQ bacteria on microbial community structure in MBR</b> B. Yavuzturk Gul, I. Koyuncu (Turkey)
9:20-9:40	<b>Increased NOM removal with less coagulant combining ion exchange and ultrafiltration</b>  I.S. Bodlund, L.E Hagglund, A. Schweiger, P. Buchta, U. Eriksson (Sweden)	<b>Fluorescence characterization of organic matter in MBR: chem. contents, hydrophobicity, molecular weight, and relation to membrane</b> X. Kang, B. Han, J. Yu, Y. Shen, X. Huang (China)	<b>Asset Management Using Modelling and Experiments for Membrane Selection in Produced Water Treatment</b> E. Frederic, A. Krifi, C. Guigui, P. Schmitz, P. Baldoni-Andrey, M. Jacob, C. Machinal, Y. Deleuze, E. Barbier (France)	<b>Numerical modeling of decline in performance of roto-dynamic RO system</b>  A. Uppu, A. Chaudhuri, S. Prasad Das (India)	<b>Contact angle investigation of hydrophobic membranes for greywater distillation</b>  M. Ramezani-pour, M. Sivakumar, Y. Zhang, N. Osborne (New Zealand, Australia)	<b>Implications of facultative isolated quorum quenching consortium for biofilm control</b>  B. Xu, T.C. Ng, S. Huang, X. Shi, H.Y. Ng (Singapore)
9:40-10:00	<b>Application of submerged membrane adsorption hybrid system to remove arsenic for</b> M. Usman, J. Rodrigues, S. Tasawar, M. Ernst (Germany)	<b>Self-Degradation of Membrane Biofoulants by Extending SRT in a DMBR</b> L. Guoqiang (China)	<b>Water and Polymer flooding Produced Water reuse by Ceramic Membranes</b> M. Hendou, E. Singlande-Mauvernavy (France)	<b>A new experimental approach to "visualize" scaling mechanism in RO modules using "fluorescent"</b> A. Pervov, K. Popov, M. Oshepkov (Russian Federation)	<b>Membrane fouling and wetting according to operating conditions of a membrane distillation process</b> J. Lim, K.P. Son, H. Lee, J. Park, P-K Park (Korea)	<b>Active quorum quenching bacteria diversity in biofilm and sludge of full-scale membrane bioreactors</b> S. Tabraiz, P. Sallis (USA)
10:00-10:20	<b>Combination of gravity driven submerged membranes and GAC for decentralized water purification</b> P. Schumann, A. S. Ruhl, J.A. Ordonez Andrade (Germany)	<b>Fouling potential of lipopolysaccharides released under low temperature in MBRs</b> T. Kakuda, K. Kimura (Japan)	<b>Nitrogen recovery by Transmembrane Chemisorption process from high strength effluent</b> I. Gonzalez, A. Mottet, D. Delagnes, X. Lefebvre, M. Bounouba, M. Orfao, O. Lorain, C. Guigui, M. Besson, M. Spérandio (France)	<b>Effect of UV/PMS pre-oxidation against algal bloom in seawater desalination</b> H. Lee, J. Lim, M. Zhan; S. Hong (Korea)	<b>Understanding wetting phenomenon by produced water in membrane distillation</b> L. Han, J.W. Chew (China, Singapore)	<b>Mechanism of fouling mitigation by vanillin in MBR revealed by size vs. polarity profiling of EPS</b> R. Honda, P.-N. Hong, T. Tobino, N. Matsuura, R. Yamamoto-Ikemoto (Japan)
10:20-10:40	Morning break					

25 JUNE 2019 (TUESDAY)						
	<b>SESSION 12 : REMOVAL OF MICROPOLLUTANTS</b> Venue: Room Guillaumet 1 Session Chairs: M.N. Pinho (Portugal), C. Causserand (France)	<b>SESSION 13: DOMESTIC WASTE WATER TREATMENT</b> Venue: Room Guillaumet 2 Session Chairs: R. Ben Aim (France) I. Koyuncu (Turkey)	<b>SESSION 14: INDUSTRIAL WATER TREATMENT</b> Venue: Room Diamant Session Chairs: H.Y. Ng (Singapour), V. Frenkel (USA)	<b>SESSION 15: DECENTRALIZATION AND</b> Venue: Room Cassiopée Session Chairs: P. Berube (Canada), F. Frechen (Germany)	<b>SESSION 16: NEW MEMBRANES FOR WATER</b> Venue: Room Argos Session Chairs: Z. Whang (China), C. Coetsier (France)	<b>SESSION 17: FOULING QQ</b> Venue: Room Spot Session Chairs: C.H. Lee (Korea), C. Guigui (France)
10:40-11:10	<b>Keynote: Predicted environmental conc. and occurrence of anti-cancer drugs in the aquatic environment: are membrane filtration and advanced oxidation processes a solution ?</b> Vaneissa Pereira (Portugal)	<b>Keynote: Resource Recovery from Water/Wastewaters</b> Ismail Koyuncu (Turkey)	<b>Ultrafiltration to produce disinfected water in shellfish farms</b> C. Cordier, C. Stavrakakis, L. Charpin, M. Papin, K. Guyomard, P. Sauvade, F. Coelho, P. Moulin (France)	<b>Keynote: Biofilm impact on integrity of passive membrane systems</b> Pierre Berube (Canada)	<b>Keynote: Antibiofouling Membranes for Water and Wastewater Treatment: Antimicrobial Mechanisms and Fabrication Strategies</b> Zhiwei Wang (China)	<b>Keynote: Biofouling Control in Reverse Osmosis Water Treatment Process by Quorum Quenching</b> Hyun-Suk Oh (Korea)
11:10-11:30	<b>Reactive electrochemical membrane for the removal of micropollutants from water</b> C. Trellu, C. Coetsier, G. Lesage, M. Rivatten, S. Lacour, S. Cerneaux, JC Rouch, S. Raffy, M.A. Oturan, M. Cretin, C. Causserand (France)	<b>Impact of Support Material Type on Dynamic MBR Performance</b> O. Isik, R. Hudayarizka, A.M. abdelrahman, M. E. Ersahin, H. Ozgun, I. Demir, I. Koyuncu (Turkey),	<b>Removal of antibiotic resistance genes by a sequencing batch membrane bioreactor treating swine wastewater</b> Q. Suj, Y. Wei, H. Zhong (Chine)	<b>In-situ membrane and adsorbent regeneration developed for self-sufficient decentralized water treatment</b> A. Benedikt, S. Yuce, M. Wessling (Germany)	<b>Superhydrophilic and oleophobic membrane functionalized with nanosheets for antifouling</b> S. Zhang, Z.B. Ma, S. Liang, X. Huang (China)	<b>Quorum Quenching in MBR: Mass transfer and hydrodynamic characterization</b> C. Guigui, M. Larzag, N. Dietrich, C. Lafforgue (France)
11:30-11:50	<b>Description of Polar Mobile Organic Chemicals (PMOC) removal by RO and NF using decision tree methodology.</b> B. Teychene, F. Chi, J. Chokki, G. Darracq, J. Baron, M. Joyeux, H. Gallard (France)	<b>Membrane fouling mechanism of an anammox MBR with fixed composite carriers</b> X. Siquing, N. Zhihao, X. Jingyi, D. Jun (China)	<b>Effect of Ferric Hydroxide on Membrane Fouling Treating with Pharmaceutical Wastewater</b> S. Huang, X. Shi, B. Xu, H-Y Ng (Singapore)	<b>Drinking Water Supply Using NF for CKDu Prevailing Rural Areas of Sri Lanka: from laboratory to practice</b> T. Cooray, Y. Wei, L. Zheng, H. Zhong (Sri Lanka, China)	<b>Electro-enhanced organic fouling mitigation applying novel duplex-coated gold-polymer-UF membrane</b> T. Mantel, P. Benne, M. Ernst (Germany)	<b>Application of Cell Entrapping Beads for Quorum Quenching Technique in Submerged MBR</b> S. Ahmed, N. Sohail, S. Chung, I. Qazi (Pakistan)
11:50-12:10	<b>Nanofiltration membranes for selective separation of organic micropollutants and divalent cations</b> Y.L. Liu, X.M. Wang, Y. F. Xie, X. Huang, B. Van Der Bruggen (China, Belgium)	<b>Contribution of single cell bacteria on MBR fouling</b> M.K. Jorgensen, S.H. Hansen, M. Nierychlo, M.L. Christensen, P.H. Nielsen (Denmark)	<b>Concentration of hospital wastewater using Aquaporin Inside® Hollow Fiber forward osmosis membranes</b> K. Traskus, M.S. Camilleri-Rumbau, V. Sanahuja-Embuena, S. Braekevelt, M.H. Moller, B.M. Pedersen, U. Nielsen, J. Vogel (Denmark)	<b>Repeated pressurization deteriorates virus removal by RO membrane for household water treatment</b> S. Torij, T. Hashimoto, A.T. Do, H. Furumai, H. Katayama (Japan)	<b>Adhesion of bacteria on modified membrane surfaces</b> C. Coetsier, S. Bkhait, V. Bouvier Vincent, S. Desclaux, S. Beaufort, E. Girbal-Neuhauser, JF.Lahitte, C. Causserand, J.C. Remigy (France)	<b>Biofouling reduction effects of QSI immobilized on membrane</b> J.H. Kim, S.H. Park, W.J. Song, J.H. Lee, J.H. Kweon (Korea)
12:10-12:30	<b>Tetracycline degradation in water by enzymes immobilized on silica monoliths</b> S. Ahmad, W. Sebai, J. Sanchez-Marcano, M-P Belleville, A. Galarneau, N. Brun (France)	<b>Necessity in contingency: Bacterial assembly in the bio-cake of MBRs</b> F. Meng, Xu Ronghua, Yu Zhong, Zhou Zhongbo, Zhao Shanshan (China)	<b>New membrane technology for NaCl reuse in industrial water softening</b> Y. Orestov, T. Mitchenko (Ukraine)	<b>A low energy gravity-driven MBR system for decentralized grey water treatment</b> A. Ding, H. Liang, W. Pronk (China, Switzerland)	<b>Application of MnO<sub>2</sub>-Co<sub>3</sub>O<sub>4</sub> coated ceramic UF membrane for fouling mitigation and contaminant removal</b> S. Zhang, F. Qi, L. Gutierrez, J-P Croue (Australia, China, Ecuador)	<b>Effect on Water Flux and Backwashing on Quorum Sensing in Biocake layer in Membrane</b> H. Lee, S.H. Lee, C.H. Nahm, J. Lim, S. Min, D. Chae, C-H Lee, P-K Park (China, USA, Korea)
12:30-13:50	LUNCH IWA Specialist Group General Assembly 13:15- 13h50 Room Cassiopée					

25 JUNE 2019 (TUESDAY)						
	<b>SESSION 18 : DRINKING WATER TREATMENT</b> Venue: Room Guillaumet 1 Session Chairs: P. Huck (Canada), A. Lerch (Germany)	<b>SESSION 19: DOMESTIC WASTE WATER TREATMENT</b> Venue: Room Guillaumet 2 Session Chairs: K-H Choo (Korea), R. Ben Aim (France)	<b>SESSION 20: MEMBRANE DISTILLATION</b> Venue: Room Diamant Session Chairs: L. D. Nghiem (Australia), S. Laborie (France)	<b>SESSION 21: BRINE/CONCENTRATE DISPOSAL</b> Venue: Room Cassiopée Session Chairs: E. Curcio (Italy), S. Vigneswaran(Australia)	<b>SESSION 22: NEW MEMBRANES FOR WATER</b> Venue: Room Argos Session Chairs: M. Fidalgo (USA), O. Lorain (France)	<b>SESSION 23: CLEANING</b> Venue: Room Spot Session Chairs: X. Huang (China), H. Vrouwenvelder (Saudi Arabia)
13:50-14:20	<b>Keynote: Developing Biofiltration Pre-Treatment to Reduce Membrane Fouling</b>  Peter Huck (Canada)	<b>Keynote: Two-in-one electrochemical membrane system for advanced wastewater treatment</b>  Kwang-Ho Choo (Korea)	<b>Keynote: Strategic membrane distillation applications beyond drinking water production</b>  Long Nghiem (Australia)	<b>Keynote: Creating value from seawater desalination brine: an integrated membrane-based approach</b> Efrem Curcio (Italy)	<b>Keynote: Solvent permeation behavior of laser induced graphene on ceramic membranes</b>  Maria Fidalgo (USA)	<b>Keynote: Membrane autopsy deciphering core-microbiota stubborn against online chemical cleaning in a full-scale MBR</b> Xia Huang (China)
14:20-14:40	<b>Analysis of fouling mechanisms in capillary UF membranes during filtration of algal species in intact and lysed conditions</b> S. Laksono, I.M. Elsherbiny, C. Staaks, S. Panglish (Germany)	<b>A new electro-conductive membrane (PES/PANI/rGO) for electrochemical MBR</b> E. Subtil, J. Goncalves, H. Gajardoni, E.C. Venancio, W.A. ALVES, J.C. Mierzwa, P. Le-Clech (Brazil, Australia)	<b>Novel VMD configuration for water vapor flux enhancement</b> N. Ghaffour, A. Alsaadi, A. Alpatova, J. G. Lee, L. Francis (Saudi Arabia)	<b>Modelling the Electrodialysis Reversal Process for Zero Liquid Discharge of Industrial Reverse Osmosis Concentrate</b> V.V. Waghlikar, L.Y. Lee, S.L. Ong, H.Y. Ng (Singapore)	<b>Grafted ceramic membranes with drastically reduced fouling tendency</b> A. Buekenhoudt, M. Ghulam, K. Wyns, V. Meynen, R. Vleeschouwers (Belgium)	<b>Novel Application of Ionic Liquids As Cleaning Agents against Irreversible Membrane Fouling</b> S.J. Choi, S.S. Kim, D. Jang, D.S. Hwang, S. Kang (Korea)
14:40-15:00	<b>Fouling Analysis of UF Membrane Treating Algae Laden Water</b>  E. Castilla-Rodriguez, H. Zhou (Canada)	<b>Improving the cleaning procedure of a full scale MBR by characterizing the sodium hypochlorite oxidative stress</b> A. Fenu, S. Derese, M. Weemaes (Belgium)	<b>Influence of salinity on wetting and wettability in membrane distillation</b>  S. Laborie, T. Zhang, P. Jacob, C. Cabassud (France)	<b>Concentrate transportability from RO membrane applications</b>  E. Filloux, D. Ratte, D. Steinmann, J. Kuntz, L. Guey, A. Brehant (France)	<b>Pollens-inspired Modification of Microfiltration Membranes for Biofouling Mitigation</b>  X. Zhang, Z. Wang (China)	<b>Application of cis-2-Decenoic acid for MBR biofouling reduction</b>  W.J. Song, J.H. Kim, J.H. Kweon (Korea)
15:00-15:20	<b>Desalination of saline groundwater by reverse osmosis and membrane capacitive deionisation</b>  H. Rosentreter, L.E. Herr, M. Walther, A. Lerch (Germany)	<b>NeophilTM -MBR, an innovative strategy for micropollutants removal.</b>  C. Albasi, L. Cavaille, C. Dasilva, O. Lorain (France)	<b>Membrane distillation biofouling: Effects at increasing feed temperature</b>  A. Bogler, E. Bar-Zeev (Israel)	<b>Performance of Fractional-Submerged Membrane Distillation-Crystallizer for Brine Treatment</b>  S. Vigneswaran, Y. Choi, G. Naidu, S. Lee (Australia, Korea)	<b>New ultrafiltration membrane made with new polymer material for long lasting and rejections performances</b>  O. Lorain, S. Marcellino, I. Duchemin, M. Zevaco, J-M Espenan (France)	<b>Citric vs Oxalic Acid for Membrane Cleaning in MBR</b>  K. Westling, S.L. Andersson, S. Andersson (Sweden)
15:20-15:40	<b>UF membrane filtration of water after conventional coagulation and novel suspended ion exchange</b> E. Lavonen, K. Dahlberg (Sweden)	<b>Evolution of Cation Exchange Membranes properties in a Bioelectrochemical System.</b> M.I. San Martin, R.M. Alonso, P. Pradanos, A. Escapa, A. Moran (Spain)	<b>Long-term performance and fouling characteristics of MD in continuously FGD wastewater</b> L. Zheng, C. Zhang, H. Zhong, Y. Wei (China)	<b>Combination of membrane and electrochemical processes for textile effluent/membrane concentrate</b> A. A. Derya, A. Aouni, D.Y. Koseoglu-Imer, A. Hafiane, I. Koyuncu (Turkey)	<b>Enhanced antifouling resistance of PVDF membranes by grafting zwitterionic via branch-liked SMA-Y-C Lin, K-M Liu, D-K Wang, H-H Tseng (Taiwan, Australia)</b>	<b>Effect of supersaturated CO2 backwash on membrane fouling mitigation</b> A. Alpatova, A. Qumar, M. Alghamdi, N. Ghaffour (Saudi Arabia)
15:40-16:00	Afternoon break					

25 JUNE 2019 (TUESDAY)						
	<b>SESSION 24: ALGAE and ALGAL REACTORS</b> Venue: Room Guillaumet 1 Session Chairs: T. Leiknes (Saudi Arabia), P. Le Clech (Australia)	<b>SESSION 25: WASTE WATER REUSE</b> Venue: Room Guillaumet 2 Session Chairs: K-H Choo (Korea), Z. Zhang (China)	<b>SESSION 26: MEMBRANE DISTILLATION</b> Venue: Room Diamant Session Chairs: L.D. Nghiem (Australia), S. Laborie (France)	<b>SESSION 27: BRINE/CONCENTRATE DISPOSAL</b> Venue: Room Cassiopée Session Chairs: S. Vigneswaran (Australia), I. Lemaitre (France)	<b>SESSION 28: NEW MEMBRANES FOR WATER</b> Venue: Room Argos Session Chairs: M. Fidalgo (USA), P. Berg (Germany)	<b>SESSION 29: CLEANING</b> Venue: Room Spot Session Chairs: X. Huang (China), H. Vrouwenvelder (Saudi Arabia)
16:00-16:20	<b>Assessment of fouling control strategies in an algae membrane photobioreactor</b>  <u>L. Fortunato</u> , A. Lamprea, T. Leiknes (Saudi Arabia)	<b>Tuas WRP and The Tuas Nexus, Singapore</b>  <u>K. Tan</u> , G. Otoole, C. Newbery (Singapore)	<b>Optimization of a forward osmosis and membrane distillation hybrid system</b>  <u>Y. Kim</u> , H.S. Son, H. Ghaffour (Saudi Arabia)	<b>SAPHIRA TSAR: a novel high water recovery membrane-based solution</b>  <u>I. Lemaitre</u> , B. Riviere, C. Breda, C. Daines, E. Barbier, M. Hendou, B. Lee (France)	<b>Coating of Ultrafiltration Membranes with Coagulant ? Effects on Operation and Costs</b>  <u>A. Schweiger</u> , D. Vial, P. Buchta, R. Winkler, P. Berg (Germany)	<b>Monochloramine use for biological stability and biofouling control in RO membranes treating an MBR effluent</b>  <u>N.M. Farhat</u> , E. Loubineaud, E.I.E.C. Prest, J. El-Chakhtoura, C. Salles, S. Bucs, J. Trampe, W.B.P. Van Der Broek, J.M.C. Van Agtmaal, M.C.M. Van Loosdrecht, J.C. Kruithof, J.S. Vrouwenvelder (Saudi Arabia, The Netherlands)
16:20-16:40	<b>Algae-bacteria co-immobilized beads on wastewater treatment and lessening membrane fouling</b>  <u>S. Cao</u> , C. Zhu, Q.L. Zhang, Y. Tao (China)	<b>Decentralised greywater reuse: applicability of MBR for micropollutant removal</b>  <u>E. Mendoza</u> , I. Rodriguez-Roda, G. Buttiglieri (Spain)	<b>Enhanced ammonia recovery from wastewater using a Nafion membrane and its mechanism in MD</b>  <u>A. K. An</u> , J. Guo, J.G. Lee, T. Tan, J. Yeo, K.J. Kim, N. Ghaffour (China, Saudi Arabia)	<b>Using microalgae to treat RO concentrate for safe disposal and resource recovery</b>  A. Mohseni, <u>L. Fan</u> , F. Roddick (Australia)	<b>Fouling behavior of new PPS hollow-fiber UF membranes modified with multi-block copolymer additives</b>  <u>A. Kouchaki Shalmani</u> , I.M.A. Elsherbiny, I. Stratmann, O. Gronwald, M. Weber, L. Grunig, U.A. Hangde, M. Heijnen, M. Krug, M. Koti, M. Ulbricht, S. Panglish (Germany)	<b>Enhanced biofilm solubilization by urea in reverse osmosis membrane systems</b>  <u>H. Sanawar</u> , I. Pinel, N.M. Fehrat, S. Bucs, J. Zlopasa, J. C. Kruithof, G.J. Witkamp, M.C.M. Van Loosdrecht, J.S. Vrouwenvelder (Saudi Arabia, Netherlands)
16:40-17:00	<b>Using an algae-based membrane bioreactor to remove nutrients in the wastewater</b> <u>P.-H. Wu</u> , T.-M. Hsieh, C.-P. Yu (Taiwan)	<b>Wastewater re-use with ozone and ceramic membrane: an alternative strategy</b> <u>R. Floris</u> , S. Gabriel, B. Martijn (Netherlands)	<b>Improving the energy efficiency of direct contact membrane distillation using the thermoelectric element</b> <u>S.-H Kim</u> , H-K Lime, T-M Lee (Korea)	<b>Improved Recovery of Desalination by Energy-Efficient Reverse Osmosis (EERO) Process</b> <u>T.H. Chong</u> , S.K. Lee , S.R. Suwarno, S. Goh (Singapore)	<b>Fouling caused by carboxyl or hydroxyl containing polysaccharides on PVDF and GO/PVDF membranes</b> <u>Y. Wang</u> , Y. Zhang, X. Zheng (China)	<b>Enzymatic cleanings for ceramic and polymeric membranes in pretreatment of brackish surface</b> <u>J.M. Vinas</u> , J. Arevalo, M. Burgos, D. Amador, F. Rogalla, V.M. Monsalvo Viñas (Spain)
18:00-19:30	POSTER SESSION 2 (Room outside the Conference Center ; transportation by bus at 17:30)					
20:00:23:00	CONFERENCE GALA DINNER					

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				