

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)					
	SESSION1 : 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	Keynote: Combat Poverty & improve Social Cohesion in Third World Countries with Membranes Franz Frechen (Germany)	Keynote: Research opportunities for maturing membrane technologies in the water and wastewater industry Pierre Le-Clech (Australia)	Keynote: Membrane technologie: State of the art and areas of future innovations Val Frenkel (USA)	Keynote : Survey of Practice and Experience of Membrane Pre-treatment to Control Bio-fouling for Seawater Desalination Graeme Pearce (UK)	Keynote: Biofouling of membrane systems: diagnosis, prediction and prevention H. Vrouwenvelder (Saudia Arabia)
14:30-14:50	Retention and integrity of drinking water production membranes towards nanoparticles and viruses N. Jacquet, Y. Wyart, G. Darracq, S. Wurtzer, L.Moulin, P. Moulin (France)	Energetic refurbishment of an existing large-scale MBR C. Brepols, K. Drensla, A. Janot, H. Schafer (Germany)	Reverse osmosis membrane performance at extreme pH conditions K. Zedda, I. Hegoburu (Germany, Portugal)	Effect of Saline Water Quality on Ion Transport Behavior in Membrane Desalination W. Cheng, X. Lu, R. Epsstein, J. Ma, M. Elimelech (China, USA)	Fouling of colloidal suspensions probed by microPIV and SAXS N. Hengl, C. Rey, S. Baup, A. Dufresne, H. Djeridi, R. Dattani, F. Pignon (France)
14:50-15:10	30 years of evolution in ultrafiltration systems and processes for drinking water treatment P. Sauvade, F. Coehlo, J. Leclerc, D. Bourdiol, A.C. Valentin (France)	Energy and resource efficient biosorption and low energy step-feed membrane bioreactor system G. Tao, C. Htoo, K.M. Phua, S.C. Chua, Y.L. Wah, K.E. Ooi, H. Seah (Singapore)	Forward osmosis treatment of wastewaters from a semiconductor manufacturer A. Haupt, F. Winkler, A. Lerch (Germany)	Economic feasibility of osmotic desalination in off-grid locations P. Pazouki, R.A. Stewart, E. Bertone, F. Helfer (Australia)	At-line sensor for membrane biofouling detection using fluorogen-substrate cleavage L. Fortunato, B. Khan, T. Leiknes (Saudi Arabia)
15:10-15:30	Drinking water treatment solution using low pressure NF on colored surface waters M. Suarez, P. Sauvignet, A. Gaid, J. Goirand, H. Henrik (France, Sweden)	Membrane fouling reduction in biofilm MBR applying polymeric and monomeric inorganic coagulants Z. Maletsky, H. Ratnaweera, O. Kulesha (Norway)	Treatment of table olive processing wastewater by an osmotic membrane bioreactor 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)	Gypsum Scaling in Capacitive Deionization and Membrane Capacitive Deionization E. Liu, L.Y. Lee, S.L. Ong, H.Y. Ng (Singapore)	In-situ visualization of concentration polarization during crossflow UF using micro-laser induced fluorescence X-Y. Li, B-Y. Meng (China)
15:30-15:50	A pilot study of coagulation-UF-NF for Tai Lake water treatment T. Li, B. Gui, B. Dong, C. Staaks (China, Germany)	Direct wastewater treatment by membrane technology P. Sanchis-Perucho, A. Robles, J. Godifredo, R. Barat, D. Aguado, A. Seco, J. Ferrer, A. Bouzas (Spain)	Application of diffusion dialysis in separation of sulfuric acid and copper from electroplating wastewater A. Ruiz-Aguirre, J. Lopez, R. Guecci, S. Randazzo, A. Cipollona, J. L. Cortina, G. Zaragoza, G. Micale (Italy, Spain)	Relationship between efficiency and chemical composition of different antiscalants. E. M. Maya, R. Sandin (Spain)	Characterization and chemical cleaning of irreversible membrane fouling by in-situ SPF-EEM K. Ochiai, Q. Ding, H. Yamamura, Y. Watanabe (Japan)
15:50-16:10	Optical coherence tomography for MF fouling investigation under different pretreatment scenarios B.J. Deka, J. Guo, S. Jeong, A. K.J. An (China)	High-flux operation of an MBR equipped with ceramic flat-sheet membranes Y. Ninomiya, A. Kakuda, K. Kimura (Japan)	Diffusive and Convective Transport of Organics in Ion-Exchange Membranes L. Ma, L. Gutierrez, M. Waqas, A. Verliefde (Belgium)	Influence of different surfactants on original nanofiltration membrane cleaning: performances and properties Z. Gu, S. Yu (China)	Characterization of Fluorescence Foulants on UF Membrane using Front-Face Excitation-emission Matrix (FF-EEM) Spectroscopy 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				