

TECHNICAL PROGRAM: DAILY PROGRAM(ORAL SESSION)

Time	21 Oct (Tue)	22 Oct (Wed)	23 Oct (Thu)	24 Oct (Fri)	
9:00		Opening Ceremony (09:00-09:20)	Hyorim Plenary Session (Shane Snyder) (09:00-09:40)	Plenary (In. S. Kim) (09:00-09:40)	
		LG Plenary Session (Jörg Drewes) (09:20-10:00)	Break (09:40-10:00)		
10:00		Plenary (Chung-Hak Lee) (10:00-10:40)	ORAL SESSION A4	ORAL SESSION B4	
		Break (10:40-10:50)			ORAL SESSION A8
11:00		Exhibit (10:50-11:40)			
12:00		Lunch/Poster (11:40-13:00)	Lunch/Poster (11:40-13:00)	Lunch/Poster (11:40-13:00)	
13:00		ORAL SESSION A1	ORAL SESSION B1	ORAL SESSION A9	ORAL SESSION B9
14:00	Technical Tour (14:00-16:30)	Break (14:50-15:10)		Break(14:50-15:10)	
15:00		ORAL SESSION A2	ORAL SESSION B2	ORAL SESSION A10	ORAL SESSION B10
16:00		Break (16:50-17:10)		Break(16:30-16:40)	
17:00		ORAL A3	ORAL B3	Closing Ceremony (16:40-17:00)	
18:00					
19:00					
20:00	Welcome Reception (19:00-21:00)	Social Tour (Korean Traditional Food Experiential Program / Daegu Modern Culture Walking Tour) (18:30-21:00)	Gala Dinner (19:00-21:00)		
21:00					

Daily Programme (Oral Session)

Day 2 (October 22nd, Wednesday)

Opening Ceremony	09:00~09:20 (Room 325)	
LG Plenary Session	09:20~10:00 (Room 325)	
"Towards Direct Potable Reuse – Recent Trends, Treatment Requirements and Remaining Concerns" <i>Jörg E. Drewes, Chair of IWA Water Reuse Specialist Group (Germany)</i>		
Plenary Session	10:00~10:40 (Room 325)	
"Let's Open The Microbiological Blackbox In MBR For Wastewater Treatment And Reuse" <i>Chung-Hak Lee, Professor of Chemical and Biological Engineering of Seoul National University (Korea)</i>		
Break	10:40~10:50	
Exhibit	10:50~11:40 (Hall 1, 1F)	
Lunch/Poster	11:40~13:00 (Hall 1, 1F)	
Session 1	13:00~14:50	
[Oral Session A1] Room 325A		[Oral Session B1] Room 325B
Science & Technology in Water Reuse		Water-Energy Nexus
13:00~13:30	[Keynote 1]	13:00~13:30 [Keynote 2]
TBA		TBA
13:30~13:50	[Oral A-1]	13:30~13:50 [Oral B-1]
"Combination Of UV Absorbance And EDC To Predict Ozonation Efficiency Of Wastewater Effluents" <i>Urs Von Gunten, Kangmin Chon, Elisabeth Salhi</i>		"Energy Consumption For Membrane Fouling Mitigation In Membrane Bioreactors (MBRs)" <i>Adrian Law, Yishuai Jiang, Tian Li, Agnes Kurniawati Harijanto, Anthony Fane</i>
13:50~14:10	[Oral A-2]	13:50~14:10 [Oral B-2]
"Visible Light Photocatalytic Oxidation Of Organic Compounds By H2O2-treated TiO2" <i>Changha Lee, Jiwon Seo, Hye-jin Lee, Hongshin Lee</i>		"Parameter Identification Of An Ultrafiltration Model For Organics Removal In Wastewater Reclamation" <i>Yunging Huang, Fu Sun, Siyu Zeng, Xin Dong</i>
14:10~14:30	[Oral A-3]	14:10~14:30 [Oral B-3]
"Recovery Of Cu (II) By Chemical Reduction Process Using Sodium Dithionite: Effect Of PH And Ligands" <i>Chi-Wang Li, Jui-Hsuan Yu, Pin-Jan Wang, Nicky Chou, Yu-Hsuan Chou</i>		"Recovery Of Diluted Draw Solutions In Forward Osmosis Process By Nanofiltration And Ultrafiltration" <i>Shiao-Shing Chen, Shu-Ying Wu, Cong Nguyen Nguyen, Thi Hau Nguyen</i>
14:30~14:50	[Oral A-4]	14:30~14:50 [Oral B-4]
"The Effects Of Electrode Material And PH Of Lead Removal By Electrochemical Processes" <i>Farihahusnah Hussin, Mohamed Kheireddine Aroua</i>		"Indicator Of Efficiency And Environmental Sustainability In Processes Of Liquid Effluent Treatment" <i>Ulises Damian Pepe</i>
Break	14:50~15:10	
Session 2	15:10~16:50	
[Oral Session A2] Room 325A		[Oral Session B2] Room 325B
Science & Technology in Water Reuse		Water-Energy Nexus
15:10~15:30	[Oral A-5]	15:10~15:30 [Oral B-5]
"Nano-porous Membrane Using Particular Shape Of V2O5 Nanowire For The Filtration Of Water-borne Virus" <i>Hee-Deung Park, Taek Seung Kim, Ok Jae Rhee</i>		"Evaluation Of Combined Forward Osmosis And Pressure-retarded Osmosis Systems With Ammonia-water Absorption chiller" <i>Changkyoo Yoo, Iman JanghorbanEsfahani</i>
15:30~15:50	[Oral A-6]	15:30~15:50 [Oral B-6]
"A Step Forward To The Improvement Of Osmosis Membrane Bioreactor For Sustainable Water" <i>Nguyen Cong Nguyen, Shiao Shing Chen, Nguyen Thi Hau, Wen-Hao Chan, Huu Hao Ngo, Wenshan Guo</i>		"Rice-dominated Gravity-fed Irrigation System Using The Punjab River Integrated Irrigation System" <i>Salamat Masih Bhatti</i>
15:50~16:10	[Oral A-7]	15:50~16:10 [Oral B-7]
"Effect Of Organic Shock Loadson Colloids In AnAnaerobic Membrane Bioreactor" <i>David Stuckey, Lin Chen, HuiChin Tan</i>		"Microwave Pyrolysis Of Sewage Sludge To Produce Biogas For Energy Recovery: Effect Of Ni-catalyst" <i>Jun Zhang, Yu Tian, Hao Chen, Wei Zuo, Hui Li, Jie Zhang</i>

16:10~16:30 "A Novel MFC-MBR Integrated System For Wastewater Treatment And Membrane Fouling Mitigation" Yu Tian , Hui Li , Jun Zhang	[Oral A-8]	16:10~16:30 "Evaluation of Membrane Performance and Power Consumption in Pilot-scale Anaerobic Membrane Bioreactor (AnMBR) Treating Domestic Wastewater at Ambient Temperature" Jaeho Ho , Shaleena Smith , Gyu Dong Kim , Hyung Keun Roh	[Oral B-8]
16:30~16:50 "Effect Of Coagulant Addition On Characteristic Change Of Mixed Liquor And BNR In MBR" Jinho Kim , Taesu Kim , Jiwoong Lee , Jinho Kim , Moonseog Jang	[Oral A-9]	16:30~16:50 "Forward Osmosis With Starch Draw Agent As Appropriate Technology" Hongsik Yoon , Jiye Kim , Jeyong Yoon	[Oral B-9]
Break	16:50~17:10		
Session 3	17:10~18:30		
	[Oral Session A3] Room 325A Science & Technology in Water Reuse		[Oral Session B3] Room 325B Desalination & Water Energy
17:10~17:30 "The Energy-saving Anaerobic Baffled Reactor - Membrane Bioreactor (ABR-MBR) System For Recycling Wastewater From High-rise Building" Chavalit Ratanatamskul , Charoenphol Chakraphan	[Oral A-10]	17:10~17:30 "Simultaneous Electricity Production And Direct Red 80 Degradation Using A Dual Chamber MFC" Dae Sung Lee , Waheed Miran , Kashif Rasool , Mohsin Nawaz , Avinash Kadam , Seolhye Shin , Jun Heo , Jiseon Jang	[Oral B-10]
17:30~17:50 "Rapid Optical Measurements Of Toxicants For Anaerobic Digestion" David Stuckey , JianLin Chen , Raphael Ortiz , Terry Steele	[Oral A-11]	17:30~17:50 "An Optimal Design Of Gas Hydrate And Reverse Osmosis Hybrid Process For Seawater Desalination" Suhan Kim , Jun-Heok Lim	[Oral B-11]
17:50~18:10 "Brewery Wastewater Treatment By Anaerobic Membrane Bioreactor" Shen Chang , Richard Chen , Youngseck Hong	[Oral A-12]	17:50~18:10 "Comparison Of Flat-Sheet And Hollow-Fiber Membrane Modules For Air Gap Membrane Distillation (AGMD)" Hyeongrak Cho , Jaewuk Koo , Yonghyun Shin , Sangho Lee , Dong-ha Kim	[Oral B-12]
18:10~18:30 "Effect Of Iron-oxides On Batch Anaerobic Digestion Performances Treating Dairy-processing Wastewater" Gahyun Baek , Jaai Kim , Changsoo Lee	[Oral A-13]	18:10~18:30 "EfOM Removal And Energy Consumption Of Various Pretreatment Systems For Osmotic Dilution SWRO System" Seungkwan Hong , Bongchul Kim , Byeonggyu Choi	[Oral B-13]

Daily Programme (Oral Session)

Day 3 (October 23rd, Thursday)

Hyorim Plenary Session	09:00~09:40 (Room 325A)		
"Ensuring the Safety of Recycled Water" Shane A. Snyder , <i>Professor of Chemical & Environmental Engineering of University of Arizona (USA)</i>			
Break	09:40~10:00		
Session 4	10:00~11:40		
	[Oral Session A4] Room 325A Science & Technology in Water Reuse		[Oral Session B4] Room 325B Emerging Contaminants and Reused Water Qualities
10:00~10:20 "Biofouling Control By Silver-polydopamine Membrane Coating In Forward Osmosis-Bioelectrochemical system" In S. Kim , Euntae Yang , Mi-Young Lee	[Oral A-14]	10:00~10:20 "Water Treatment By High-valent Metal Species From The Fenton-like Reactions At Neutral PH" Changha Lee	[Oral B-14]
10:20~10:40 "Optimization Of De-wetting Condition For PVDF Membrane Using Response Surface Methodology" Sangho Lee , Yonghyun Shin , Yoon-Jin Kim , Jae-Wuk Koo	[Oral A-15]	10:20~10:40 "Prevalence Of Emerging Bacterial Pathogens in Treated Wastewater Effluent and Receiving Aquatic Milieu" Ademola Olaniran , Siphephile Nzimande	[Oral B-15]
10:40~11:00 "The Effect Of Dark And Light Cycle On Nutrient Removal By Using Microalgal Membrane Bioreactor" Mohammad Reza Mehrnia , Azadeh Babaei , Jalal Shayegan , Mohammad Hossein Sarrafzadeh , Neda Fakhimi	[Oral A-16]	10:40~11:00 "Development And Identification Of A Multi-species Model For Reclaimed Water Distribution Systems" Shun Li , Fu Sun , Siyu Zeng , Xin Dong , Pengfei Du	[Oral B-16]

11:00~11:20	[Oral A-17]	11:00~11:20	[Oral B-17]
"Greywater Treatment Using A Solar Powered Electro-coagulator And Vacuum Membrane Distillation System"		"Eco-efficiency Assessment Of Concepts And Solutions For Water Reuse In Dairy Product Industry"	
Muttucumaru Sivakumar , Mohammad Ramezaniapour , Aleksandar Stojanovski		Palle Lindgaard-Jorgensen , Gert Holm Kristensen , Martin Andersen	
11:20~11:40	[Oral A-18]	11:20~11:40	[Oral B-18]
"Composite Metal Oxide Adsorbents For The Recovery Of Phosphorous From Membrane Bioreactor Effluent"		"The Arab Experience With Wastewater Treatment And Reuse : An Overview"	
Kwang-Ho Choo , Hak-Soon Park , Se-Hoon Kwak , Byung-Ho Lee		Youssef Filali-Meknassi , Muriel Auriol	
Lunch/Poster	11:40~13:00 (Hall 1, 1F)		
Session 5	13:00~14:50		
	[Oral Session A5] Room 325A		[Oral Session B5] Room 325B
Science & Technology in Water Reuse		Emerging Contaminants and Reused Water Qualities	
13:00~13:30	[Keynote 3]	13:00~13:30	[Keynote 4]
TBA		TBA	
13:30~13:50	[Oral A-19]	13:30~13:50	[Oral B-19]
"Enhanced Photocatalytic Efficiency Using Binary TiO ₂ /ZrO ₂ Metal Oxide To Remove Humic Acid Fouling"		"Effect Of Mixed Liquor PH In Membrane Bioreactor On Micro-pollutant Removal From Landfill Leachate"	
Sovann Khan , Jeonghwan Kim		Chart Chiemchaisri , Samunya Sanguanpak , Wilai Chiemchaisri , Kazuo Yamamoto	
13:50~14:10	[Oral A-20]	13:50~14:10	[Oral B-20]
"Decolourization Of Reactive Black 5 Dye By Electrochemical Oxidation Using Different Anode Materials"		"UV-Oxidation For Removal Of Recalcitrant Chemical Contaminants In Drinking Water"	
Mohamed Kheireddine Aroua , Wei Tze Mook		Scott Bindner , Michael Kuhns , Adam Festger	
14:10~14:30	[Oral A-21]	14:10~14:30	[Oral B-21]
"Degradation Of Heavy Metals By Nano Molecule Technique Using Titanium Dioxid And Aluminum Monoxide"		"Transformation Of Ranitidine During Water Treatments With Chlorine, Ozone, UV, And UV/H ₂ O ₂ "	
Naser Grima , Naser Turki , Ramzi Alawemri		Jisoo Kim , Zahra Ramadhany Hidayat , Dahee Jeon , Yunho Lee	
14:30~14:50	[Oral A-22]	14:30~14:50	[Oral B-22]
"Application Of In-situ Electro-coagulation For Membrane Fouling Control In MBR"		"Effects Of Three Environmental Organophosphate Retardants In Human Embryonic Kidney (HEK293) Cells"	
Jun Young Kim , In-Soung Chang		Xianghao Ren , Ying-Ying Kou , Kyu-jung Chae , Gyu-Tae Seo , In S. Kim	
Break	14:50~15:10		
Session 6	15:10~16:30		
	[Oral Session A6] Room 325A		[Oral Session B6] Room 325B
Science & Technology in Water Reuse		Emerging Contaminants and Reused Water Qualities	
15:10~15:30	[Oral A-23]	15:10~15:30	[Oral B-23]
"Effect Of Pollutants' Size And Molecular Weight On Color Removal Of Reclaimed Water During Ozonation"		"Correlation Of Antibiotic Resistant E.coli And Water Characteristics In Solid Waste Leachate"	
Qianyuan Wu , Hongying Hu , Feng Zhang , Tze Kang Lam		Wilai Chiemchaisri , Simanata Threedeach , Toru Watanabe , Chart Chiemchaisri , Ryo Honda , kazuo Yamamoto	
15:30~15:50	[Oral A-24]	15:30~15:50	[Oral B-24]
"Using Ozonation To Elimination The Inhibition Of Soluble Algal Products (SAP) On Microalgae Growth"		"Ferrate(VI) Oxidation Of Algal-derived Taste And Odor Compounds: Reaction Kinetics"	
Lin-Lan Zhuang , Yin-Hu Wu , Hong-Ying Hu		Donghyeon Lee , Jaedon Shin , Yunho Lee	
15:50~16:10	[Oral A-25]	15:50~16:10	[Oral B-25]
"Influence Of H ₂ O ₂ Feeding On The By-product Of Landfill Leachate Treatment By EFR Process"		"Occurrence Of Micro Pollutants In Wastewater Treatment Plants In Korea"	
Thanakorn Methatham , Ming-Chun Lu , Chavalit Ratanatamskul		Wontae Lee , Soohyung Park , Jinho Kim	
16:10~16:30	[Oral A-26]	16:10~16:30	[Oral B-26]
"Enhanced Degradation Of Nitrobenzene In Water By Combined Ultrasound And Zero-valent Zinc Catalyst"		"Effects Of SRT On Biodegradation Of POPs In Sequencing Anoxic/anaerobic-aerobic Membrane Bioreactor"	
Guangming Zhang , Shan Chong , Yali Song , He Zhao		Zubair Ahmed , Saleh F. Magram	
Break	16:30~16:50		
Session 7	16:50~18:10		

[Oral Session A7] Room 325A	[Oral Session B7] Room 325B
Science & Technology in Water Reuse	Potable & Nonpotable Water Reuse
16:50~17:10 [Oral A-27] "Application Of Aerobic Granulation Sequencing Batch Reactor For Delivering Reusable Quality Water" Fenghao Cui , Moonil Kim, Bohyun Kim, Seyong Park	16:50~17:10 [Oral B-27] A Prototype IT/OD-MBR (Inclined-Tube/Oxidation-Ditch Membrane Bioreactor) System For High-rise Building Wastewater Recycling Chavalit Ratanatamskul , Tiennalin Romsaku, Kazuo Yamamoto
17:10~17:30 [Oral A-28] "NOMs Fouling Characteristics Of Ceramic Microfiltration Membrane Process For Water Treatment" Kyung-Jo Kim , Am Jang	17:10~17:30 [Oral B-28] "Study On Migration Of Metals From Polymeric Pipes Used For Distributing Industrial Reclaimed Water" Shuming Liu , Ruonan Liu , Ling Zhang
17:30~17:50 [Oral A-29] "Study Of Applied Forces On Dynamic Membrane Formation" Mohammad Reza Mehrnia , Neda Fakhimi , Azade Babaei	17:30~17:50 [Oral B-29] "Optimization Of Coagulation Conditions For Pretreatment Of Microfiltration Process Using RSM" Jungwoo Jung , Yoon-Jin Kim, Sangho Lee, Dong-ha Kim, Youn-jong Park
17:50~18:10 [Oral A-30] "Measurement Of Vibration Of Flat-sheet Membrane Modules For MBRs Using Laser Displace Sensors" Hiroshi Nagaoka	17:50~18:10 [Oral B-30] "Characterization Of Modified PVDF Membrane By Gamma Irradiation For Non-potable Water Reuse" SeungJoo Lim , Tak-Hyun Kim, Jun-young Kim, In Shin

Daily Programme (Oral Session)

Day 4 (October 24th, Friday)

Plenary Session	09:00~09:40 (Room 325A)
"Energy Reduction for Water Desalination Using Forward Osmosis and Bio-surfactants" In S. Kim , <i>Professor of Environmental Science and Engineering of GIST (Korea)</i>	
Break	09:40~10:00
Session 8	10:00~11:40
[Oral Session A8] Room 325A	[Oral Session B8] Room 325B
Science & Technology in Water Reuse	Smart Management in Water Reuse & Recycle
10:00~10:20 [Oral A-31] "Flotation Of Algae For Water Reuse And Biomass Production" Dong-Heui Kwan , Mi-Sug Kim , Il-Joo Jeong, Kee-Hwan Oh	10:00~10:20 [Oral B-31] "Analysis Of Urban Stormwater Runoff And Water Quality Using Storm Water Management Model, Korea" Dong Il Seo , Jongsung Kim, Yanghui Han
10:20~10:40 [Oral A-32] "A New Class Of Draw Solutions To Promote Forward Osmosis Process" Hau Thi Nguyen , Shiao Shing Chen, Nguyen Nguyen Cong, Shu-Ying Wu, Huu Hao Ngo, Wenshan Guo	10:20~10:40 [Oral B-32] "A Two Stage Optimization Approach For The Synthesis Of Resource Conservation Networks With Multiple" Changkyoo Yoo , Srinivas Sahan Kollu, Kolluri Srinivas Sahan
10:40~11:00 [Oral A-33] "Effect Of Various Advanced Treatment Processes On The Biological Stability Of Reclaimed Water" Xin Zhao , Hong-Ying Hu, Tong Yu, Guo-Qiang Li , Chang Su	10:40~11:00 [Oral B-33] "Model Evaluation Of The Single Stage Nitrogen Removal Process Using Double-layered Gel Beads" HyoKwan Bae , Seockheon Lee
11:00~11:20 [Oral A-34] "Effect Of LSI On Industrial Wastewater Softening With Simultaneous Removal Of Polyacrylamide Residue" Jin Young Jung , Daehee Choi	11:00~11:20 [Oral B-34] "Scenario Generation Of Water Use Systems With The Application Of Multi-Objective Optimization" Jun Nakatani , Seiya Maki, Kiyo Kurisu, Yoshiomi Otsuka, Toshiya Aramaki, Keisuke Hanaki
11:20~11:40 [Oral A-35] "Carbonaceous Nanowire Membrane For Elimination Of Heavy Metals At High Water Flux " Shijie You , Zhang Jinna	11:20~11:40 [Oral B-35] "Application Of DGT Technique for Assessing Biogeochemical Conditions In Youngsan River, South Korea" Yongseok Hong , Miyoung Lee, Jihye Im
Lunch/Poster	11:40~13:00 (Hall 1, 1F)
Session 9	13:00~14:50

[Oral Session A9] Room 325A		[Oral Session B9] Room 325B	
Science & Technology in Water Reuse		Desalination & Concentrate	
13:00~13:30	[Keynote 5]	13:00~13:30	[Keynote 6]
TBA		TBA	
13:30~13:50	[Oral A-36]	13:30~13:50	[Oral B-36]
"Organic Shock Loading In A Submerged Anaerobic Membrane Bioreactor : Effect Of Nutrient Supplementation" David Stuckey , B. Ketheesan , P.M Thanh		"Inhibition Of Biofouling By Modification Of FO Membrane Using Quaternary Ammonium Chloride" Hee-Deung Park , Kang-Hee Park , Sang-Hyun Yu	
13:50~14:10	[Oral A-37]	13:50~14:10	[Oral B-37]
"The Application Of Advanced Ammonia Stripping Using Electrolyzed Oxidizing System" Seyoung Park , Heaseung Lee , Hyejin Kim , Moonil Kim		"Enhanced Desalination Performance In Membrane Capacitive Deionization Using Graphene /TNT Electrode" Ahmed Kalil , Jae-Hwan Choi , Barakat Nasser A. M.	
14:10~14:30	[Oral A-38]	14:10~14:30	[Oral B-38]
"Anaerobic Digestion of Seaweed Biomass (Ulva.sp) in Sequencing Batch Reactor" Heejeung Jung , Jaai Kim , Changsoo Lee		"Treatment Of Reverse Osmosis Concentrate Using Bio-regeneration Of Ion-exchange Resin" Byung-Uk Bae , Youn-Woo Nam	
14:30~14:50	[Oral A-39]	14:30~14:50	[Oral B-39]
"Nitrogen Transformation In A Sustainable Engineered System Of Aquaponics" Jae Woo Lee , Shukra Raj Paudel , Sungpyo Kim , Ohkyung Choi , Samir Kumar Khanal , Kartik Chandran		"Next Generation, Molecular Layer-by-layer Assembled Membrane For Desalination And Water Treatment" Jung-Hyun Lee , Seockheon Lee , Jong Suk Lee , Soonbum Kwon	
Break	14:50~15:10		
Session 10	15:10~16:30		
[Oral Session A10] Room 325A		[Oral Session B10] Room 325B	
Science & Technology in Water Reuse		Desalination & Concentrate	
15:10~15:30	[Oral A-40]	15:10~15:30	[Oral B-40]
"Performance Of A Submerged Anaerobic Membrane Bioreactor (SAMBR) At Different HRTs And SRTs" David Stuckey , Chinagam Kunacheve		"Autopsy Of A Fouled Reverse Osmosis Membrane From A Wastewater Reclamation Plant" Hong-Ying Hu , Fang Tang , Li-Juan Sun , Nozomu Azuma , Masanobu Osawa , Yun-Tao Guan	
15:30~15:50	[Oral A-41]	15:30~15:50	[Oral B-41]
"Anaerobic Treatment Of Rice-washing Wastewater Using Upflow Anaerobic Filter Packed With Slag Grains" YeaDam Jo , Changsoo Lee , Jaai Kim		"Pilot Studies for the Reuse of NF Brines using High Recovery RO" Jun Kim , Lan Doan , GyuDong Kim , HyungKeun Roh	
15:50~16:10	[Oral A-42]	15:50~16:10	[Oral B-42]
"Forward osmosis for nutrient recovery from urine" Chuyang Y. Tang , Jiefeng Zhang , Qianhong She , Victor Chang , Richard Webster		"Ageing Study Of Coated And Uncoated Polyamide Membrane Using Sodium Hypochlorite And Monochloramine" Vera Puspitasari , Brian Loh , Qiantao Cai	
16:10~16:30	[Oral A-43]	16:10~16:30	[Oral B-43]
"Effects Of Mixed Liquor Biosolids Characteristics On Fouling Behavior In A Membrane Bioreactor" Kwang-Ho Choo , Nuwan Asanka Weerasekara , Chung-Hak Lee		"Developing Australian National Guidelines To Validate Reverse Osmosis Processes In Water Recycling" Marie-Laure Pype , Marlene Cran , Pierre Le-Clech , Stephen Gray , Greg Leslie , Francesco Busetti , Damien Arrigan , Wolfgang Gernjak	
Break	16:30~16:40		
Closing Ceremony	16:40~17:00		