Sunday, Feb 2		Day 0 - Registration			
12:00	19:00	Registration open			
17:00	19:00	Welcome Reception @ Aerial Function Centre			
Monday, Feb 3		**Day 1**			
08:00	08:30	Registration and Poster setup			
08:30	09:15	Opening Ceremony and Welcome to Country			
09:15	09:50	*Plenary Speaker: Prof Claus Helix-Nielsen* Biomimetic and Bioinspired Membranes – Challenges and Future Prospects - 285			
09:50	10:25	*Plenary Speaker: Prof Rong Wang* Development of Novel Microporous Hollow Fiber Membranes Used for Gas–Liquid Membrane Contacting Processes - 278			
10:25	11:00	Morning Tea			
Parallel Sessions		**Novel membrane development, modifications and characterisation (1)**	**Water and Wastewater Treatment (1)**	**Gas separation (1)**	**Membrane Fouling (1)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Huanting Wang - Ikuo Taniguchi*	*Judy Lee - Christopher Davey*	*Vicki Chen - Colin A. Scholes*	*Matthias Wessling - Luca Fortunato*
11:00	11:20	**Keynote Speaker** **Scalable Smart Surfaces for Membrane and Purification Technologies - 177** ***Jas Pal Badyal***	**Keynote Speaker** **Sydney Desalination Plant's journey as Sydney's only non-dependent source of drinking water** ***Matt Blaikie***	**Keynote Speaker** **Thin Film Nanocomposite Membranes for Gas Separation: Stability and Architecture - 291** ***Vicki Chen***	**Keynote Speaker** **Enhanced performance and anti-fouling properties in membrane distillation - 260** ***Filicia Wicaksana***
11:20	11:40	**Invited Speaker** **Pushing New Limits of Membrane Materials - 261** ***Alexey Volkov***	**Keynote Speaker** **Chemically reactive membrane crystallisation: A new method for process intensification - 276** ***Ewan McAdam***	**Invited Speaker** **Membrane contactors for efficient gas separation - 55** ***Colin A. Scholes***	**Keynote Speaker** **Advances in Biofouling of Spiral Wound Membrane Research - 290** ***Johannes Simon Vrouwenvelder***
11:40	11:55	Selective Modification of Membrane Pore and External Surfaces - 117 *Ranil Wickramasinghe*	Impact of RO fouling and ageing on water recycling health risk and validation - 315 *Pierre Le-Clech*	Correlation between phase separation and gas transport properties in Polybutadiene based polyurethane membrane - 135 *Takuma Yamamoto*	Membrane Fouling Control: Practical Experience of Resolving Membrane Cleaning Issue - 165 *Steven Cao*
11:55	12:10	Application of Cross-linked Radiation-Grafted Cation Exchange Membranes for HI Concentration - 57 *Nobuyuki Tanaka*	End-caps design for gravity driven spiral-wound membrane systems. Decentralize areas case study - 30 *Raquel Garcia Pacheco*	MOF-in-MOF nanocomposite materials – an effective approach towards interfacial engineering for mixed matrix membranes? - 274 Jingwei Hou	Coatings made by plasma-assisted deposition processes of reverse osmosis membrane and feed spacer for biofouling mitigation - 142 *Andreas Heilmann*
12:10	12:25	HELIX – Flux enhancement technology in tubular waste water treatment membranes - 68 *Stefan Koel*	Microfiltration membrane performance, fouling and optimal operating strategies for urban water reuse - 236 *Andrzej Listowski*	Hollow Fibre Membrane Contactors under Oscillating Flow Conditions for Enhanced CO2 Separation from Flue Gas - 89 *Elaheh Hosseini*	Supersaturated CO2 backwash as novel effective method of membrane fouling mitigation - 85 *Alla Alpatova*
12:25	12:40	Simultaneous data-driven development of membranes and processes - 103 *Deniz Rall*	Pore-filled Alkaline-Stable Anion-Exchange Membranes - 252 *Jochen Meier-Haack*	Synthesis of Fluorinated Polyurethane Membrane for C2+ Hydrocarbon Separation - 114 *Ansori Muchtar*	Possibility of use of cis-2-Decenoic acid for regulating quorum sensing to reduce EPS on PVDF membrane surfaces - 96 *Wonjung Song*
12:40	12:55	The importance of porous supports in perfluorinated sulfonic acid ionomer-poly(tetrafluoroethylene) reinforced membranes for polymer electrolyte membrane fuel cells - 280 *Juhee Ahn*	Selective resource recovery from acid mine drainage by membrane distillation and adsorption hybrid system - 206 *SeongChul Ryu*	Translating Metal Organic Framework From Adsorbent Into Functional Selective Nanocomposite Membrane Layer For Ethane/Ethylene Separation - 225 *Muhammad Yazid Bin Zulkifli*	Combining persulfate-oxidation and membrane distillation process for emerging micropollutant degradation and membrane fouling control - na *Arbab Tufail*
12:55	13:55	Lunch			
Parallel Sessions		**Novel membrane development, modifications and characterisation (2)**	**Advances in NF and RO Membranes**	**Pervaporation, Vapour Separation and Membrane Distillation (1)**	**Membrane Fouling (2)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Stefan Smith - Jas Pal Badyal*	*Anne Brehant - Leonard Tijing*	*Alicia An - Gayathri Naidu*	*Filicia Wicaksana - Hans Vrouwenvelder*
13:55	14:15	**Invited Speaker** **CO2 Capture by Alkanolamine-containing Polymeric Membranes: Mechanism of Preferential CO2 Permeation and Modul Preparation - 197** ***Ikuo Taniguchi***	**Keynote Speaker** **Study of the removal of emerging water contaminants by low-pressure reverse osmosis membranes using pilot tests and a predictive approach - 273** ***Anne Brehant***	**Keynote Speaker** **Industrial textile wastewater treatment by membrane distillation with patterned membrane and fouling mechanism investigation - 288** ***Alicia An***	**Keynote Speaker** **What are the microscopic events during membrane filtration and backwashing? - 284** ***Matthias Wessling***
14:15	14:30	Microporous carbon membranes for liquid separation - 86 *Huanting Wang*	Pressure Retarded Osmosis: Modelling, Mirages and Prospects - 300 *Robert Field (Jun Jie Wu)*	Membrane condenser for brine concentration and organics recovery from aqueous mixtures - 262 *Alexey Volkov*	Monitoring the fouling control strategies in a gravity driven membrane bioreactor treating real wastewater - 36 *Luca Fortunato*
14:30	14:45	High performance membranes from recycled polystyrene blends for oily water purification at low driving pressures - 107 *Machawe M Motsa*	Enhanced desalination of dye solutions and imbued antibacterial properties for nanofiltration mixed-matrix membranes of polyethersulfone and polydopamine particles adorned with silver - 42 *Hazel Lynn C. Maganto*	Role of 3D Printed Spacers in Enhancing the Performance of Membrane Distillation - 257 *Gayathri Naidu*	Limiting the fouling of nanofibres on ultrafiltration membranes by surface plasma treatment - 32 *Marie Enfrin*
14:45	15:00	Porous Membranes from PSU-PDMS block copolymers for UF-applications - 247 *Jochen Meier-Haack*	Three-dimensional unsteady CFD simulations of oscillating flow mass transfer enhancement in spacer-filled membrane channels - 176 *Liang Yong Yeow*	High performance poly(vinyl alcohol)/MXene composite membrane for pervaporation desalination - 207 *Guang Yang*	Effective Removal of Perfluoroalkyl Substances by Direct Contact Membrane Distillation - 254 *Ludovic F. Dumée (Anbharasi Vanangamudi)*
15:00	16:05	Break and Poster Session (Wattle)			
Parallel Sessions		**Novel membrane development, modifications and characterisation (3)**	**Water and Wastewater Treatment (2)**	**MBR (1)**	**Electrically Enhanced Membrane Operation**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Ikuo Taniguchi- Alexey Volkov*	*Ewan McAdam - Raquel Garcia Pacheco*	*Simon Judd - Jingwei Hou*	*Jinxing Ma - George Chen*
16:05	16:25	**Keynote Speaker** **Development of a submerged tubular direct-contact membrane distillation system for saltwater treatment - 184** ***Bui Xuan Thanh***	**Keynote Speaker** **Membrane filtration of complex water and wastewaters - 215** ***Judy Lee***	**Keynote Speaker** **Immersed membrane bioreactor cost sensitivities - 164** ***Simon Judd***	**Invited Speaker** **Development of Electrochemical Membrane Filtration System for Removing Refractory Pollutants from Contaminated Waters - 310** ***Jinxing Ma (Zhiwei Wang)***

16:25	16:40	Development of Flexible Ceramic Nano-Fibrous Membranes for Air/Water Purification - 70 *Jongman Lee*	Challenges, perspectives and opportunities for integration of membrane distillation with waste heat from combustion for decentralised sanitation: Lessons from development of full-scale systems - 138 *Christopher Davey*	Anaerobic fluidized bed membrane bioreactor using PVDF multi-channel, tubular media to control membrane fouling and organic removal efficiency - 93 *Jeonghwan Kim*	Lithium recovery by electro-membrane processes - 224 *Anna Siekierka*
16:40	16:55	Shell and lumen side flow and pressure communication during permeation and filtration in a multibore polymer membrane module - 106 *Denis Wypysek*	Isolation and characterization of potent protease producing bacteria from waste water effluent of dairy - 25 *Awanish Kumar*	Quenching Microbial Signalling for Membrane Biofouling Control: The Sooner the Better - 153 *Xiaolei Zhang (Kwang-Ho Choo)*	Decision support system for electrodialysis reversal management in a DWTP of Barcelona - 65 *Lluis Godo-Pla*
16:55	17:10	Characterisation of Internal and External Membrane Pore Surfaces with (Solid-state) NMR Spectroscopy - 311 Marianne Gaborieau	Use of Clay Based Ceramic Membrane for Removal of Cr an Lead from Electroplating Effluent - 19 *Parmesh Kumar Chaudhari*	A New Generation of Sequential Enzyme Immobilization Materials and Methods for Membrane Bioreactor Applications - 81 *Sigyn Bjork Sigurdardottir*	Switchable Oxygen Depolarized Cathodes in flexible Chlor-Alkali Electrolysis - 104 *Kristina Baitalow*
17:10	17:25	Development of novel polymer membranes derived from unutilized renewable biomass - 124 *Shinji Kanehashi*	Exploiting Donnan Dialysis to Enhance Ammonia Recovery in an Electrochemical System - 98 *Mariana Rodrigues*	Membrane bioreactor coupled with anoxic sidestream reactor for enhanced sludge reduction and degradation of emerging trace organic contaminants - 79 *Zulqarnain Fida*	Silicate-induced Fouling in Capacitive Deionization (CDI) for Brackish Groundwater Desalination - 308 *Xiangtong Kong*
17:25	17:40	Anion-conducting Perfluorinated Ionomer Membranes for Polymer Electrolyte Alkaline Fuel Cells - 281 *Jin Pyo Hwang*	A Layer-by-layer Immobilization of nZVI onto Electrospun Nanofiber Membrane for Groundwater Remediation - 199 *Jiawei Ren*	Characterization of microbial communities associated with membrane fouling in a membrane bioreactor - 222 *Quynh Anh Nguyen*	Electrical Membrane Separation: Mechanism, Material and Reactor - 58 *Jingqiu Sun*

Tuesday, Feb 4		Day 2			
08:00	08:30	**Registration**			
08:30	09:05	***Plenary Speaker: A/Prof Baoxia Mi*** **The Promises and Challenges of 2D Nanomaterials - 216**			
09:05	09:40	***Plenary Speaker: Prof Maria Forsyth*** **Novel Ionomer Membranes for Next Generation Solid State Batteries - 294**			
09:40	10:15	***Plenary Speaker: Prof Jeff McCutcheon*** **Where Additive Manufacturing Meets Membrane Technology: Opportunities for Printing Membranes for Separations - 275**			
10:15	10:45	**Morning Tea**			
Parallel Sessions		**Novel membrane development, modifications and characterisation (4)**	**Water and Wastewater Treatment (3)**	**Gas separation (2)**	**Membrane Fouling (3)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Mainak Majumder - Amir Razmjou*	*Mark Mullett - Sherub Phuntsho*	*Sandra Kentish - Stefan Smith*	*Robert Field - Hans Coster*
10:45	11:05	**Keynote Speaker** **High performance polymers for a sustainable membrane technology - 49** ***Suzana Nunes***	**Keynote Speaker** **Assessing the passage of bacteria through reverse osmosis membrane process - 179** ***Takahiro Fujioka***	**Keynote Speaker** **The development of mathematical models for the transport of gases and vapours in polymeric membranes - 90** ***Sandra Kentish***	**Keynote Speaker** **Coagulation Characteristics of Colloids Indicating Irreversible Membrane Fouling in Coagulation–MF Membrane Filtration Process - 271** ***Qing Ding***
11:05	11:25	**Invited Speaker** **Size-selective Mixed Matrix Membranes containing molecular sieves for pre-combustion CO2 capture: fabrication, characterization and modeling - 187** ***Maria Grazia de Angelis***	**Invited Speaker** **Solar-powered batteryless desalination: case studies of stand-alone and hybrid OSMOSUN® plants 286** ***Andre Deratani***	**Invited Speaker** **Effect of Blending and Thermal Rearrangement on Gas Transport Properties of Poly(benzimidazole) - 266** ***Alexander Bridge (Benny Freeman)***	**Keynote Speaker** **Monitoring of Biofouling in RO Membranes - 99** ***Hans Coster***
11:25	11:40	Flower-like Copper Tin Sulfide-based Photothermal Material for Clean Water Production - 234 *Leonard Tijing*	Metal Organic Framework Membranes/Channels for Ion Transport and Separation - 248 *Huacheng Zhang*	Zirconia-based Composite Membrane for Oxygen Separation - 131 *Jong Hoon Joo*	*Understanding of Membrane Fouling in Reverse Electrodialysis - 283* *Jin-Soo Park*
11:40	11:55	Preparation of electrospun nanofibers membranes with ionic liquid for air filtration - 126 *Ana Claudia Canalli Bortolassi*	The Operational Strategies of Anaerobic Self-forming Dynamic Membrane Bioreactor in Up-flow Anaerobic Sequence Batch (UASB) Reactor - 133 *Muhammad Ahmar Siddiqui*	Study on a membrane reactor equipped with the one-end-closed silica membrane for hydrogen iodide decomposition - 43 *Myagmarjav Odtsetseg*	Role of protein sources on irreversible membrane fouling in industrial water treatment: comparing protein interactions with industrially aged membranes - 220 *Zainab Mustafa*
11:55	12:10	Photo-responsive smart anti-bacterial membrane surface modification via controlled loading/release of natural quorum sensing inhibitor - 44 *Pritam Das*	Industrial water treatment using second-hand membranes. Full and pilot scale cases studies - 39 *Raquel Garcia Pacheco*	A Systematic Approach to Modelling Gas Sorption in Semicrystalline Cellulose Acetates - 109 *Eleonora Ricci*	*Critical SADm evaluation in UF membranes: TIPS vs NIPS - 213* *Albert Galizia | Jordi Suquet*
12:10	12:25	Photo-electrocatalytic membranes prepared via Atomic Layer Deposition for degradation of persistent organic pollutants - 211 *Priyanka Kumari*	Combined enzymatic membrane bioreactor (EMBR) and UV-photolysis for enhanced degradation of emerging trace organic contaminants - 227 *Arbab Tufail*	Experimental Study of CO2-Resistant Dual-Phase Mixed Ionic-Electronic Conducting Oxygen Permeable Membranes - 41 *Claudia Li*	Submerged module of outer selective hollow fibre membrane for effective fouling mitigation in osmotic membrane bioreactor for treating municipal wastewater - 317 *Van Huy Tran*
12:25	13:55	**Lunch (optional lab tour)**			
Parallel Sessions		**Advances in MF and UF Membranes**	**Membrane Applications in Mining and Agriculture**	**Wine, Food and Dairy Application**	**Pervaporation, Vapour Separation and Membrane Distillation (2)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Qing Ding- Ludovic F Dumee*	*Takahiro Fujioka - Andre Deratani*	*Ranil Wickramasinghe - Genevieve Gesan-Guiziou*	*Mikel Duke - Myagmarjav Odtsetseg*
13:55	14:15	**Invited Speaker** **Modelling of Membrane Fouling: a Perspective - 301** ***Robert Field***	**Invited Speaker** **Observations from a Water Treatment Consultant in the Mining Sector - 307** ***Mark Mullett***	**Invited Speaker** **Combined Osmotic and Membrane Distillation for Concentration of Anthocyanin from Muscadine Pomace - 116** ***Ranil Wickramasinghe***	**Keynote Speaker** **Process Intensification and Integration Strategies in Designing Energy-Efficient Membrane Distillation Process - 228** ***Xing Yang***
14:15	14:30	Tight ultrafiltration membranes developed for treating perfluorooctanesulfonic acid (PFOS) compounds - 209 *Jingshi Wang*	Opportunities for Membranes to Treat Water for the Agricultural Sector - 229 *Rahul Jadhao*	Pilot Scale Trials of Forward Osmosis and Electrodialysis in Dairy Systems - 145 *George Chen*	MOF incorporated PVDF hollow fibre membranes for flux enhancement in direct contact membrane distillation - 190 *Zongli Xie*
14:30	14:45	Incorporating Polydopamine Particles to Cellulose Acetate for Improved Antifouling of Mixed-matrix Membranes Applied to Oil-Water Separation - 66 *Charelle Rose M. Macni*	How can membrane technology support food production under limited water availability - 316 Valeria Almeida Lima	Structural organization and behaviour of casein micelles fouling layer during crossflow filtration of milk at low temperature : A Small-Angle X-Ray Scattering (SAXS), osmotic stress and rheology study - 112 *Genevieve Gesan-Guiziou*	Amphiphilic Copolymer Membranes for Gas and Vapour Permeation - 269 *Faheem Hassan Akhtar*
14:45	15:00	The role of MOF thin film as a membrane in enzymatic based biosensors - 202 *Munirah Mohammad*		Membrane assisted reactive extraction of trans-aconitic acid from aqueous solutions using tri-n-octylamine in n-octanol - 22 *Dharm Pal*	Ion transport behaviour in the graphene oxide nanochannel for desalination by pervaporation - 171 *Withita Cha-umpong*
15:00	15:30	**Afternoon Tea**			
Parallel Sessions		**Novel membrane development, modifications and characterisation (5)**	**Membrane for Healthcare Applications**	**Forward and Engineered Osmosis (1)**	**Pervaporation, Vapour Separation and Membrane Distillation (3)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Suzana Nunes - Maria Grazia de Angelis*	*Antoine Venault - Andrea Merenda*	*Hokyong Shon- Marshall S. Sheldon*	*Xing Yang - Zongli Xie*
15:30	15:50	**Invited Speaker** **Practical Membranes from Atomically-Thin Materials - 306** ***Mainak Majumder***	**Invited Speaker** **Anti-biofouling membrane designs for improving acute/chronic wound recovery - 304** ***Antoine Venault***	**Forward Osmosis: Challenges and Opportunities** ***Hokyong Shon***	**Invited Speaker** **Review of water production costs by membrane distillation: where are we today? - 267** ***Mikel Duke***

15:50	16:05	The 4th Generation of Polymer Material for UF Permanent Hydrophilic Membrane Fabrication - 20 *Isabelle Duchemin*	Biocompatibility of current membrane-based apheresis methods: A review - 174 *Christine Bacal*	Exploring Dyeing Solutions as Draw Solutions against Alternative Feed Water Resources Using a Forward Osmosis Biomimetic Membrane - 180 *Marshall S. Sheldon*	Pressure-Retarded Membrane Distillation for Simultaneous Hypersaline Brine Desalination and Low-grade Heat Harvesting - 74 *Ziwen Yuan*
16:05	16:20	Li ion-selective nanostructured membranes: Design principles and Molecular Dynamic Study - 157 *Amir Razmjou*	Isolation of Sperm Cells with High Viability via Thermotaxis using Membranes - 193 *Roberto Katigbak*	Impact of FO operating pressure and draw spacers on fluid dynamics - 189 *Alexander J. Charlton*	Flue gas Condensate Cleaning via Air Gap Membrane Distillation - 9 *Imtisal-e-Noor*
18:00	21:00	**Conference Dinner**			

Wed, Feb 5		Day 3			
08:00	08:30	**Registration**			
08:30	09:05	***Plenary Speaker: Prof Wanqin Jin*** **Precisely Tuning the Interlayer Channels of GO Membranes**			
09:05	09:40	***Plenary Speaker: Dr Geoffrey Johnston-Hall*** **Experiences in Low Pressure UF Membrane Design and Development - 258**			
09:40	10:15	***Plenary Speaker: Prof Michael Guiver*** **Membranes designed for carbon dioxide and other gas separations - 230**			
10:15	10:45	**Morning Tea**			
Parallel Sessions		**Novel membrane development, modifications and characterisation (6)**	**Gas separation (3)**	**Membrane Applications**	**Pervaporation, Vapour Separation and Membrane Distillation (4)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Matthew R Hill - Yen Truong*	*Matteo Minelli - Tomohisa Yoshioka*	*Xiwang Zhang - Anna Siekierka*	*Norredine Ghaffour - Yun Chul Woo*
10:45	11:05	**Keynote Speaker** **Bio-inspired Zwitterionic Membrane - Design and Applications - 253** ***Yung Chang***	**Invited Speaker** **Gas sorption in ultra-high free volume glassy polymers at cryogenic temperatures - 34** ***Matteo Minelli***	**Keynote Speaker** **Progresses in Membrane Assisted Condensers - 194** ***Enrico Drioli***	**Keynote Speaker** **Optimization of a forward osmosis and membrane distillation (FO-MD) thermally and osmotically isolated integrated system - 186** ***Norredine Ghaffour***
11:05	11:25	Facile Integration of Nano Catalysts with Ceramic Membrane for Removal of Pharmaceuticals from Aquatic Environments - 238 *Quoc Cuong Do*	**Invited Speaker** **Gas permeation mechanisms in microporous ceramic membranes and in-situ characterization of subnano-scale porous structures - 303** ***Tomohisa Yoshioka***	**Invited Speaker** **Constructing 2D laminar membranes for water processing - 185** ***Xiwang Zhang***	**Invited Speaker** **Design and fabrication of novel electrospun nanofiber membranes for membrane distillation - 221** ***Yun Chul Woo***
11:25	11:40	Forming Frestanding Selective Layers by Wetting Control During Polyelectrolyte Complexation - 27 *Anna Kalde*	Dynamics of unsteady-state membrane gas separation: modelling and experimental verification - 162 *Ilya Vorotyntsev*	PV-RO desalination with panel cooling/feed preheating: optimising operation at higher temperatures and its effects on biofouling - 295 *Gustavo Adolfo Fimbres Wehis*	Maximizing heat recovery efficiency in membrane distillation by module and system configuration - 110 *Bastiaan Blankert*
11:40	11:55	Flexible electrospun carbon nanofiber membranes for air filtration application - 231 *Andrea Merenda (Riyadh Al-Attabi)*	First Experimental Measurement of Ternary Mixed-Gas Sorption in a Polymeric Membrane for Gas Separation: CO2/CH4/C2H6 in PIM-1 - 113 *Eleonora Ricci*	New industrial separation technology for water and gases at Pentair - 212 *Jens Potreck*	Patterned Superhydrophobic Polyvinylidene Fluoride (PVDF) Membranes for Membrane Distillation: Enhanced Flux with improved Fouling and Wetting Resistance - 182 *Alicia An (Jehad A. Kharraz)*
11:55	12:10		Ultra-selective carbon molecular sieve membranes for natural gas separations based on a carbon-rich intrinsically microporous polyimide precursor - 26 *Khalid Hazazi*	Control of biofilm formation using Î±-amylase/lysozyme enzyme immobilized on Polyethersulfone membrane surface - 158 Amir Razmjou	Pervaporation Desalination - 54 *Elisabeth Thomas*
12:10	13:25	**Lunch**			
Parallel Sessions		**Novel membrane development, modifications and characterisation (7)**	**Water and Wastewater Treatment (4)**	**MBR (2)**	**Forward and Engineered Osmosis (2)**
Location		**Harris**	**Jones**	**Broadway**	**Thomas**
Session Chairs		*Yung Chang - Noel Peter Tan*	*Enrico Drioli - Jia Ding*	*Kaushalya (Kaushi) Wijekoon - Luong Ngoc Nguyen*	*Felicity Roddick - Sungil Lim*
13:25	13:45	**Invited Speaker** **Porous Materials and Their Role in the Global Challenge of Energy Storage - 169** ***Matthew R Hill***	**High retention membrane bioreactors: challenges and opportunities - 318** ***Long D. Nghiem***	**Invited Speaker** **Optimisation of Membrane Bioreactor Air scouring: Effect of Air Scouring on MBR Long Term Hydraulic Performance - 195** ***Kaushalya (Kaushi) Wijekoon***	**Invited Speaker** **Adventures in the Treatment of Reverse Osmosis Concentrate from Municipal Wastewater Reclamation - 292** ***Felicity Roddick***
13:45	14:00	Laminated electrospun Janus membrane for oil/water emulsion separation - 218 *Yen Truong*	Optimisation of The Chemical Cleaning Process and System Design for Low Pressure Membrane Systems - 200 *Richard Bleach*	Phosphorus removal, membrane fouling, cleaning strategies and microbial community in iron-dosed submerged membrane bioreactor treatment of wastewaters - 48 *Muhammad Bilal Asif (Zhenghua Zhang)*	Covalent organic framework embedded outer-selective hollow fiber thin-film nanocomposite membranes for osmotically driven desalination processes - 250 *Sungil Lim*
14:00	14:15	Solution blow spinning (SBS) nanofiber membrane fabrication and modification - 47 *Noel Peter Bengzon Tan*	Control of Microstructure and Heterogeneous Catalyst Dispersion of Cobalt Tetroxide Silica by Rapid Thermal Processing for Dye Wastewater Degradation - 240 *Jia Ding*	Sanitation and dewatering of human urine by membrane bioreactor and membrane distillation hybrid process - 270 Sherub Phuntsho	Development of Pressure Assisted -Volume Retarded Osmosis (PA-VRO) to remove Perfluoroalkyl Substances (PFASs) for Wastewater Reclamation and Reuse - 143 *Paula Jungwon Choi*
14:15	14:30	A lab-scale ultrafiltration module with embedded spacers - 147 *Kristina Baitalow*	Delamination-free and electrochemically effective double-layered perfluorinated ionomer membranes for saline water electrolysis and carbon dioxide mineralization - 279 *Chang Hyun Lee*	A hybrid anaerobic and microalgae membrane bioreactor for high-strength wastewater treatment and algal biomass production - 239 *Luong Ngoc Nguyen*	Simultaneous cooling and provision of make-up water by forward osmosis for post-combustion CO2 capture - 223 *Lei Zheng*
14:30	14:45	Graphene oxide membranes intercalated with Zirconium-based metal-organic frameworks - 166 *Xiao Sui*	Hybrid membrane distillation-reverse electrodialysis configuration for thermal-to-electrical energy generation and simultaneous water recovery from human urine for decentralised sanitation - 136 *Christopher Davey*	Improved Recovery of Dissolved Methane from Anaerobic Membrane Bioreactor Effluent Using Degassing Membrane Contactors - 293 *Perlie Velasco*	Outer-selective hollow fiber forward osmosis membranes doped with aquaporin polymersomes for osmotic membrane bioreactors - 92 *Victoria Sanahuja-Embuena*
14:45	15:00	In Situ Growth of Two-dimensional ZIF-L Nanoflakes on Ceramic Membrane for Efficient Removal of Radioactive Iodine - 170 *Huan Xiao*	Stable polyelectrolyte multilayer based nanofiltration membranes for produced water treatment - 17 *Ettore Virga*		Evaluation of Forward Osmosis Spacer Performance for Produced Water Treatment - 265 *Jawad M. AlQattan*
15:00	15:30	**Afternoon Tea**			
15:30	16:00	**Closing Ceremony**			