



Thurs 3rd Dec morning

Session 1: Membranes for gas separation and pervaporation

Chair: Andrew Foster

Vice Chair: Bibiana Comesana Gandara

Session 1 (GMT)	Speaker	Institution	Title
9.00-9.30 am (plenary)	Dr. Qilei Song	Imperial College, London, UK	Membrane Technology for COVID-19 and Climate Change: Challenges and Opportunities
9.30-9.45	Noelia Esteban	University of Valladolid, Spain	New Microporous Polymer Materials for Advanced Applications
9.45-10.00	Eleonora Ricci	University of Bologna, Italy	Multicomponent effects in CO ₂ /CH ₄ separation with glassy membranes
10.00-10.15	Cenit Soto	University of Valladolid, Spain	Enhancement of CO ₂ /CH ₄ selectivity for biogas upgrading via Thermal Rearrangement of Mixed Matrix Membranes
10.15-10.30	Jiangtao Liu	King Abdullah University of Science and Technology (KAUST), Saudi Arabia	Smart Membrane with Light- switchable Valves
10.30-10.45 am	Monica Alberto	The University of Manchester, UK	PIM-1/graphene thin Film Nanocomposite membranes (TFNs) for pervaporation

Break / discussion (30 min)



Thurs 3rd Dec morning

Session 2: Membranes for pollution removal and other studies

Chair: Saeed Mazinani

Vice Chair: Zamidi Ahmad

Session 2 (GMT)	Speaker	Institution	Title
11.15-11.30 am	Berta Alcalde	University of Girona, Spain	A polymer inclusion membrane (PIM) for the removal of fluoride from natural waters
11.30-11.45	Sebastian Leaper	The University of Manchester, UK	Effective arsenic removal using electrospun PVDF membranes enhanced by POSS-functionalised graphene oxide in membrane distillation
11.45-12.00	Luis Felipe Dos Santos Esteves	University of Duisburg-Essen, Germany	Fluid Flow in porous membrane based on momentum sink added to governing momentum equations
12.15-12.30	Sajjad Mohsenpour	The University of Manchester, UK	Morphological changes in polymeric membranes by addition of graphene oxide: Experimental and thermodynamic study
12.30-12.45	Ahmed Ameen	The University of Manchester, UK	Opportunity and evaluation of Polymer of intrinsic microporosity PIM-1 to treat sour natural gas by Hybrid membrane-amine process: Economic study
12.45-1.00 pm	Ngai Yin Yip	Columbia University, New York, USA	New Insights into Solute-Selectivity Relationship of Thin-Film Composite Polyamide Membranes

Lunch / discussion (60 min)



Thurs 3rd Dec afternoon

Session 3: Membranes for gas separation

Chair: Bibiana Comesana Gandara

Vice Chair: Andrew Foster

Session 3 (GMT)	Speaker	Institution	Title
2.00-2.15 pm	Laura Matesanz Niño	University of Valladolid, Spain	Gas Separation Membranes obtained by Partial Pyrolysis of Polyimides having Polyethylene oxide moieties
2.15-2.30	Anand Jain	Magdeburg University, Germany	High performing 6FDA-DAM:DABA mixed matrix membranes with ZIF-8 and GO mixtures for effective CO ₂ /CH ₄ separation
2.30-2.45	Jose Miguel Luque-Alled	The University of Manchester, UK	Physical aging prevention of PIM-1 based mixed matrix membranes (MMMs) in CO ₂ /CH ₄ gas separations
2.45-3.00	Sharon Lin	Massachusetts Institute of Technology, USA	Thermal free volume modification effects on gas transport properties for a 6FDA-HAB polyimide with BOC functionality
3.00-3.15 pm	Albert Xiuyuan Wu	Massachusetts Institute of Technology, USA	Elucidating the role of fluorine content on the gas sorption properties for fluorinated polyimides

Break / discussion (30 min)



Thurs 3rd Dec afternoon

Session 4: Electrochemical membrane applications

Chair: Zamidi Ahmad

Vice Chair: Greg Mutch

Session 4	Speaker	Institution	Title
3.45-4.15 pm (plenary)	Prof. Zachary P. Smith	Massachusetts Institute of Technology, USA	Processable Porous Materials for Membrane-Based Gas Separations
4.15-4.30	Aitor Marcos-Madrazo	Universidad de Cantabria, Spain	Development of Membrane Coated Electrodes for CO ₂ electroreduction
4.30-4.45	Phumlani Msomi	University of Johannesburg, South Africa	Enhancing polymer electrolyte membrane properties for fuel cell application using nanostructured materials
4.45-5.00 pm	Chunchun Ye	The University of Edinburgh, UK	Membranes from sulfonated polymers of intrinsic microporosity for aqueous redox flow batteries

End of day



Friday 4th Dec morning

Session 5: Membranes for desalination

Chair: Edidiong Asuquo

Vice Chair: Zamidi Ahmad

Session 5 (GMT)	Speaker	Institution	Title
9.00-9.30 am (plenary)	Prof. Rahul R. Nair	The University of Manchester, UK	Science and technology of 2D materials based membranes
9.30-9.45	Oneeb Ul Haq	Chonbuk National University, Republic of Korea	Facile synthesis of ultrathin IEM for brackish water desalination via MCDI
9.45-10.00	Jehad Abbaas Abed Alhaleem Kharraz	University of Hong Kong, Hong Kong	Macro-corrugated and nano-patterned hierarchically structured superomniphobic membrane for treatment of low surface tension oily wastewater by membrane distillation
10.00-10.15	Swatantra Pratap Singh	Indian Institute of Technology Bombay, India	Doped Laser-Induced Graphene Catalytic Filters and Membranes for Wastewater Treatment
10.15-10.30	Ulrich Hellriegel	Karlsruhe University of Applied Sciences, Germany	Energy efficient desalination with membrane capacitive deionization (MCDI): Findings of theoretical and pilot studies
10.30-10.45 am	Clara Skuse	The University of Manchester	Graphene oxide membranes for desalination via membrane distillation

Break / discussion (30 min)



Friday 4th Dec morning

Session 6: Ceramic membranes

Chair: Greg Mutch

Vice Chair: Andrew Foster

Session 6 (GMT)	Speaker	Institution	Title
11.15-11.30 am	Amanmyrat Abdullayev	Technische Universität Berlin, Germany	Effect of Particle Shape on Properties of Freeze Cast Mullite Ceramic Membranes
11.30-11.45	Fabrício Eduardo Bortot Coelho	University of Torino, Italy	Photocatalytic Ultrafiltration ZrO ₂ /TiO ₂ Membrane
11.45-12.00	Mogolodi Dimpe	University of Johannesburg, South Africa	Fe ₃ O ₄ -SiO ₂ coated tyre-based activated carbon nanofibers as a nanoadsorbent for ultrasound assisted dispersive solid phase extraction of arsenic, cadmium and thallium in environmental samples
12.15-12.30	Esra Eray	Aalborg University, Denmark	Enhanced Fabrication of Silicon Carbide Membranes for Water Treatment
12.30-12.45	Natalia Cristina Fontão	University of Bremen, Germany	Asymmetric porous SiOC membranes for microfiltration produced by phase-inversion tape casting technique
12.45-1.00 pm	Hassan Alali Alhweij	University of Bath, UK	Comparative study of novel antifouling sulfonated polyaniline nanofiltration membranes and conventional treatment for water and seawater (pre)treatment

Lunch / discussion (60 min)



Friday 4th Dec afternoon

Session 7: Membranes for filtration

Chair: Saeed Mazinani

Vice Chair: Edidiong Asuquo

Session 7 (GMT)	Speaker	Institution	Title
2.00-2.15 pm	Sucipta Laksono	University of Duisburg-Essen, Germany	Relating Fouling Mechanisms of Ultrafiltration Capillary Membranes in Mini-plant Operation to Characteristics of Algae-contaminated Water
2.15-2.30	Ali Sayegh	Karlsruhe Institute of Technology, Germany	Treatment of hydrothermal liquefaction liquid waste with pressure driven membrane technologies
2.30-2.45	Pablo López-Porfiri	The University of Manchester, UK	Supported Liquid Membranes (SLM) using green solvents for bio-based organic acids extraction.
2.45-3.00 pm	Ana Carolina Santana	Federal University of ABC, Brazil	Cotreatment of landfill leachate and synthetic wastewater: effect on mixed liquor filterability and membrane fouling
3.00-3.15 pm	Giorgio Pratofiorito	Karlsruhe Institute of Technology, Germany	Biofilm online monitoring in a nanofiltration system

Break / discussion (30 min)



Friday 4th Dec afternoon

Session 8: Membranes for healthcare applications

Chair: Edidiong Asuquo

Vice Chair: Saeed Mazinani

Session 8	Speaker	Institution	Title
3.45-4.00 pm	Francesca Liva	University of Pisa, Italy	Fabrication and characterization of a biotechnological Bruch's membrane for an in vitro model of the outer blood-retinal barrier
4.00-4.15	Serena Regina	Institute on Membrane Technology (CNR-ITM), Italy	Development of membranes with antibacterial and antiradical activity
4.15-4.30	Prantik Samanta	Karlsruhe Institute of Technology, Germany	DOC and antibiotic removal from pig manure by nanofiltration (NF) to produce ammonium enriched liquid
4.30-4.45 pm	Kseniya Papchenko	University of Bologna, Italy	Evaluating sustainable materials for membrane separations through molecular simulations: the case of Polyhydroxyalkanoates (PHA)
4.45-5.00 pm	Andrew Foster	Closing remarks	
To follow	NYM committee meeting	Best presentation awards (sponsored by EMS) Prize Announcements	1 st prize (500 Euros) 2 nd prize (300 Euros) 3 rd prize (200 Euros) Certificates from EMS Video mailed to all attendees