

Program for EMN Meeting on Membranes 2016		
Monday Afternoon, April 4		
14:00-18:00	Onsite registration & Sign up	
Tuesday Morning, April 5 Room A		
08:00-08:10	Opening Ceremony	
Session: Membrane for Energy Conversion I Chair: Pascal E. Saikaly		
08:10-08:35	A01: Design of asymmetric supported mixed ionic-electronic conducting membranes for oxygen separation from air and catalytic partial oxidation of natural gas into syngas	Vladislav A. Sadykov Boriskov Institute of Catalysis, Russia
08:35-09:00	A02: Anionic exchange membranes for energy	Maria Luisa Di Vona University of Rome Tor Vergata, Italy
09:00-09:25	A03: The development and study of polymer electrolytes and their electrochemical interface in High Temperature PEM fuel cells	Stylianos G. Neophytides Foundation of Research and Technology, Greece
09:25-09:50	A04: Ampholytic polymer membranes for electrochemical energy technologies	Philippe Knauth Aix Marseille Université– CNRS, France
09:50-10:05	Session Break	
Session: Membrane for Energy Conversion II Chair: Maria Luisa Di Vona		
10:05-10:30	A05: Integration of advances in material science with microbial electrolysis cells for resource recovery from domestic wastewater	Pascal E. Saikaly King Abdullah University of Science and Technology, Saudi Arabia
10:30-10:55	A06: Pd-based Membrane-assisted Devices for Pure Hydrogen Production and Greenhouse Gas Treatment	Alessio Caravella University of Calabria, Italy

10:55-11:20	A07: Uncontaminated and Unpolluted Energy Conversion - Proton Exchange Membrane Fuel Cell With Static Power Electronics Conversion Devices	Subramaniyan Venkatanarayanan K.L.N.College of Engineering- Affiliated to Anna University Chennai - India
11:20-11:45	A08: Ionic liquids in composite SPEEK membranes for fuel cells: problems and advantages	Guntars Vaivars University of Latvia, Latvia
12:00	Lunch Break	

Tuesday Afternoon, April 5		
Room A		
Session: Membrane for Environmental Protection & Process Intensification Chair: Seda Keskin Avcı		
13:30-13:55	A9: Theoretical investigation on local proton conductance in proton exchange membranes	Takao Tsuneda University of Yamanashi, Japan
13:55-14:20	A10: How to control the nano-channels of PEM to make a real breakthrough	Hee-Woo Rhee Sogang University, South Korea
14:20-14:45	A11: Economic Studies using multi-objective optimization studies for Removal of VOCs from Aqueous Solutions by Pervaporation	Suggala V. Satyanarayana Jawaharlal Nehru Technological University, India
14:45-15:10	A12: Electrical sensors for detection of membrane fouling	Mariam Darestani Queensland University of Technology, Australia
15:10-15:35	A13: Functional Modification Strategies of Membranes	Zhi-Ping Zhao Beijing Institute of Technology, China
15:35-16:00	Session Break	
Session: Membranes for Nano-composite Gas Separation I Chair: Hee-Woo Rhee		
16:00-16:25	A14: MOF-based Mixed Matrix Membranes for CO ₂ /N ₂ Separations	Seda Keskin Avcı Koc University, Turkey

16:25-16:50	A15: Mixed matrix membranes comprising MOFs for pre-combustion application	Beatriz Zornoza University of Zaragoza, Spain
16:50-17:15	A16: Multilayered EVA/EVOH membranes for water/gas separation	Kateryna Fatyeyeva Rouen University, France
17:15-17:40	A17: Composite polymeric membranes with graphenes. Synthesis characterization and applications	Stefan Ioan Voicu University Politehnica of Bucharest, Romania
18:00	Dinner Social	

Wednesday Afternoon, April 6		
Room B		
Session: Osmosis and Nano filtration Membranes I Chair: Marcela A. Michaut		
13:30-13:55	B01: Designing polymer-matrix nanocomposite membranes for water treatment and reuse	Baolin Deng University of Missouri, Columbia, USA
13:55-14:20	B02: Nanocarbons-based robust RO and NF membranes	Morinobu Endo Shinshu University, Japan
14:20-14:45	B03: Water transport in microporous membranes and the role of hydrophilicity and surface barriers	Eliodoro Chiavazzo Politecnico di Torino - Energy Department - Small Lab, Italy
14:45-15:10	B04: In-situ studies of thin-film composite reverse osmosis membranes with small-angle neutron scattering during the process of desalination	Dietmar Schwahn Technische Universität München, Germany
15:10-15:35	B05: Plant-inspired osmotic actuation: a paradigm for biorobotics science and engineering	Edoardo Sinibaldi Italian Institute of Technology, Italy
15:35-16:00	Session Break & Poster	
Poster	P1: PBI mixed matrix membranes for	Javier Sanchez Lainez

	hydrogen purification	University of Zaragoza, Spain
Poster	P2: Synthesis, Characterization and Toxicological Evaluation of Magnetic Spinel Ferrites Nanoparticles in HepG2 Cellular Model	Muhammad Umar Farooq University of Electronic Science and Technology of China
Session: Osmosis and Nano filtration Membranes II Chair: Baolin Deng		
16:00-16:25	B06: Performance Evaluation of Commercially Available Ultrafiltration Tubular Membranes for salts retentions	Hilmi Mukhtar Universiti Teknologi PETRONAS, Malaysia
16:25-16:50	B07: Pre-Designed Surface Charge of Nanofiltration and Reverse Osmosis Membranes by Graft Polymerization of Oppositely Charged Monomers	Roni Kasher University of the Negev, Israel
16:50-17:15	B08: Membrane mechanics and transport: influence of pressure, asymmetry, protein and drug transport	Sowmya Purushothaman Univer sity of Exeter, UK
17:15-17:40	B09: Thermal responsive ionic liquid as novel draw solution for water desalination	Zhiping Lai King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
17:40-18:05	B10: High Performance Forward Osmosis (FO) Membranes for Water and Wastewater Treatment Applications	Ismail Koyuncu Istanbul Technical University, Turkey
18:00	Dinner Social	

Thursday Morning, April 7

Room A

Session: Membranes for Nano-composite Gas Separation II Chair: Antoine Venault		
08:25-08:50	A18: Mixed matrix membranes based on hyperbranched polyimides for gas separation	Petr Sysel University of Chemistry and Technology, Czech Republic
08:50-09:15	A19: Carbon nanotubes/polyethersulfone (CNT/PES) nanocomposite membranes fabrication and characterization	Vedat Uyak Pamukkale University, Turkey
09:15-09:40	A20: Adsorption-Based Separations of CO ₂ and H ₂ Gases	Xiaoqin Zou Northeast Normal University, China
09:40-10:05	A21: Enhanced ion transport in polymer-ionic liquid electrolytes containing 2D nanostructured	Yun Sheng Ye Huazhong University of Science and Technology, China
10:05-10:20	Session Break	
Session: Genral		Chair: Petr Sysel
10:20-10:45	A22: Design of low bio-fouling PVDF membranes by in-situ modification: formation aspects, characterization and applications	Antoine Venault R&D Center for Membrane Technology, Chung Yuan Christian University, Taiwan
10:45-11:10	A23: Preparation of High Performance Pervaporation Membranes and Application in Recovery of Ethyl Acetate from Aqueous Solution	Yinhua Wan Institute of Process Engineering, Chinese Academy of Sciences, China
11:10-11:35	A24: Green Membranes	Manal Rekaby Jazan University, Saudi Arabia
12:00	Lunch Break	

Thursday Afternoon, April 7		
Room A		
Session: Membranes for Biological and Medical Application I Chair: Hassan Kazemian		

13:30-13:55	A25: Synthesis and Properties of Optically Active Helical Polymers as Chiral Recognition Materials	Xinhua Wan Peking University, China
13:55-14:20	A26: Molecular mechanism of cortical reaction in mouse oocytes	Marcela A. Michaut National University of Cuyo, Mendoza, Argentina
14:20-14:45	A27: Fabrication and analysis of SiN nanopore membranes for DNA sequencing	Itaru Yanagi Hitachi, Ltd., Research & Development Group, Center for Technology Innovation, Japan
14:45-15:10	A28: A bead-supported unicellular membrane system for biological and biomedical purposes	Qiu-Xing Jiang University of Florida, USA
15:10-15:35	A29: Membranes with pore sizes from some ten nano-meters to some microns for biological applications in point of care diagnostics	Enrico Sowade Technische Universität Chemnitz, Germany
15:35-15:50	Session Break	
Session: Membranes for Biological and Medical Application II Chair: Xinhua Wan		
15:50-16:15	A30: Membrane protein, beta barrel and alpha helix	Hassan Kazemian London Metropolitan University, UK
16:15-16:40	A31: Flow cytometry used to study cell activity and membrane integrity in <i>Tetracelmis suecica</i>	Ingunn Alne Hoell Stord/Haugesund University College, Norway
16:40-17:05	A32: Shape transformations of multicomponent lipid membranes	Wojciech Gozdz Institute of Physical Chemistry, Polish Academy of Sciences, Poland
17:05-17:30	A33: Sebosomes, Novel Secretory Membrane Vesicles in Cultured Rat Sebocytes	Michihiro Sumida Ehime University, Japan

17:30-17:55	A34: Special devices in the synapse membrane for efficient signaling and plasticity	Tatsuo Suzuki Shinshu University, Japan
18:10	Dinner Social	

April 8
One day Academic exchange & Excursion