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Membrane Science 2018

Info Leaflet



Membrane Science 2018 Invitation

Dear All,

We are extremely delighted to host 2nd International Conference on Membrane Science and Technology.

Membrane Science 2018 London Meet was highly successful & enriching and we aim for a bigger sky this time. The Membrane Science Series, over years, has become a successful site for the industry, science and technology fusion and envisioning a greater and wider span for advancing the segment of this new science.

We invite your participation for this mega scientific event set to happen in London this year as we start to prepare the dais for a grand discussion with the theme “Membrane Science as a Pluridisciplinary Science for Everyone in the World”.

Regards

Organizing Committee Panel
Membrane Science 2018 London



The Membrane Science 2018 London conference calls for the newest and healthiest proposals for the Meet from researchers, industrial personnel and pioneering students.

This summit is designed to meet every nook and corner research topic related to the advancement in the research and development of Membrane Science and Technology such as Membranes and Technology, Waste Water Treatment, etc.

Advisory Panel

TRACK

Membrane for Water & Wastewater



PONTIE Maxime

Angers University, France

Biography:

Maxime Pontié, born on March 14, 1968, in Montauban, France, is professor and works at the University of Angers since 2004. He received a DSc degree under professors Lemordant and Rumeau in 1996 from the University Francois Rabelais in Tours, France. After a postdoctoral research study with professor R.W. Bowen, Swansea University of Wales, UK, with a research topic dedicated to mass transfer mechanism in nanofiltration. His current research interests is water desalination membrane processes with a way to intensified the processes in a sustainable development approach. He has over 100 publications that have been cited over 100 times, and his publication H-index is 35 and has been serving as an editorial board member of reputed Journals. He was a board member of the European Desalination Society for 2012 to 2017.

TRACK

Membrane for Water & Wastewater



Pierre MILLET

Paris-Sud University, France

Biography:

P. Millet is an electrochemical engineer, Professor of physical-chemistry at the University of Paris-Sud, campus of Orsay. He graduated in 1986 from the French "Ecole Nationale Supérieure d'Electrochimie et d'Electrométallurgie de Grenoble", "Institut National Polytechnique de Grenoble" (INPG). He completed his PhD thesis on water electrolysis in 1989, at the French "Centre d'Etudes Nucléaires de Grenoble" (CEA-CENG). He is currently Director of the "Laboratory of Research and Innovation in Electrochemistry for Energy applications" at the French "Institute of Molecular Chemistry and Material Science" in Orsay. His research activities focus on water electrolysis, water photo-dissociation hydrogen permeation across metallic membranes. He is the author of more than 150 research papers and book chapters and has presented more than 150 oral communications at national and international conferences.

TRACK

MF/UF/NF Membranes For Little Communities



Vandré Barbosa Brião

University of Passo Fundo - Brazil

Biography:

Vandré Barbosa Brião is food engineering and Ph.D. in Chemical Engineering in membrane separation processes. As engineer, he was operator of a RO system for water desalination in a dairy industry. Professor at University of Passo Fundo since 2000, Mr. Brião has been researched MF/UF/NF/RO in food and water/wastewater applications. The water reuse has been the goal seeked in him work and the researches has been focused in post-treatment of water/wastewater with hybrid systems by coagulation-electrocoagulation-adsorption coupled with membrane separation.

TRACK

Membrane Fouling Mechanisms



Hans-Curt Flemming

University of Duisburg-Essen, Germany

Biography:

Hans-Curt Flemming Study of chemistry in Stuttgart and Freiburg, Scholarship of Fritz ter Meer-Stiftung, Heinrich-Hörlein-Award of the German Biological Society. He was Chair for Aquatic Microbiology, University of Duisburg; Member of the board of scientific directors of the IWW Centre for Water, Mülheim/Ruh. He was Managing Director of the Biofilm Centre and also a Member of Specialist Group Steering Group of IWA.

TRACK

MF/UF/NF Membranes For Little Communities



Xiao-Lin WANG

Tsinghua University, P.R. China

Biography:

Professor WANG has published more than 300 papers and taken out more than 20 patents. He is a standing committee of the society of seawater desalination and water re-use in China from 2006, a vice dean of the Membrane Engineering and Application Committee subjected to China Membrane Industry Association from 2006, the secretary-general of Beijing Membrane Society from 2005, and the council member of Aseanian Membrane Society from 2004. He was the chairman of the organization committee of the 3rd conferences of Aseanian Membrane Society in 2005 in Beijing China and the 8th conferences of Aseanian Membrane Society in 2014 in Xi'an China. He was one of congress chairmen of the 10th international congress on membranes and membrane processes (ICOM) in 2014 in Suzhou China.

TRACK



Gassan Hodaifa

Pablo de Olavide University, Spain

Biography:

Gassan Hodaifa is a Food Engineer (Albaath University, Syria), Chemical Engineer (Granada University, Spain) and Dr. by Jaén University (Spain) in the Doctoral Program: Biotechnology and Agricultural Engineering. His research began in the year 1997 with a Doctoral Scholarship to perform in Spain, has joined to the research group "Bioprocesses TEP-138" (Government of Andalusia) and he work in the research lines of Biotechnology of Microalgae, Industrial and Urban Wastewater Treatment, Chemical Oxidation, Membrane Technology and Adsorption processes. Participated in over 21 research projects (European, National, regional, and with companies), with which it has signed several contracts for research. As a result of this research activities has been published 40 articles in journals all included in JCR, 1 patent, 3 books, 24 book chapters, and has participated in 80 Congresses and Conferences.

TRACK

Membrane for Water & Wastewater



G.Arthanareeswaran

National Institute of Technology
Tiruchirappalli, India

Biography:

G.Arthanareeswaran graduated as a Chemical Engineer in India. He completed his Masters in petroleum refining and petrochemicals and defended his PhD thesis at Anna University, Chennai, India. Current research involves improving the performance of polymer membranes by mixing with inorganic micro particles and fillers by a mixed matrix method for ultrafiltration (UF) applications. Arthanareeswaran has received awards for research exchange including the Research exchange award from the Royal Academy of Engineering (RAE) London in 2010 and the Endeavour Executive award from Australian Government. He has been a Guest Editor of the Special Issue "Current development in wastewater treatment in India" to Desalination Journal. Arthanareeswaran has authored over 85 original articles in peer review

Conference Directory

Day 1: Opening Ceremony

• Registrations	Final attendance of the participants
• Introduction	Day 1 kicks off by Moderator's introductory speech
• Guest's Speak	Briefing the conference theme by Honorable Guest

Day 1 Sessions

• Keynote Bout	Talks covering the Theme of the Conference
• Coffee Break	Coffee and Candid shots of the Group
• Oral Session 1	Membrane Fouling Mechanisms | Membrane for Water & Wastewater
• Special Session	A exclusive Exhibitor hosted session/Workshop for effective B2B chance
• Luncheon	Networking over Lunch
• Oral Session 2	Separation Processes using Membranes | Gas and Vapor Separation
• Coffee Break	Post-lunch coffee break session for networking
• Oral Session 3	Case studies/General discussions

Day 2 Sessions

• Keynote Bout	Re-opening the day with Keynotes again
• Coffee Break	Coffee and Networking
• Oral Session 4	Separation Processes using Membranes | Ion exchange and electrically driven processes
• Luncheon	Networking over Lunch
• Oral Session 5	RO Membrane Reuse | New Membrane Materials and New Trends
• Coffee Break	Post-lunch coffee break session for networking
• Poster Session	Accepted Poster presentations



Tentative Speakers

Title: Water treatment using membranes : desalination of brackish / sea waters or surface water treatment resources? Big size unit and isolated pilot ?
PONTIE Maxime, Angers University, France

Title: Seven deadly sins in membrane biofouling
Hans-Curt Flemming, Biofilm Centre, Germany

Title: Flux-enhanced mixed matrix membranes (MMMs) containing graphene oxide and derivatives for membrane technology
Patricia Gorgojo, The University of Manchester, UK

Title: Membranes with CO2-selective transport channels
Michael D. Guiver, Tianjin University, China

Title: Mild heat treatment of a ceramic supported, ionic liquid membrane, for enhanced SO2/CO2 and CO2/N2 separation performance
Anastasios Labropoulos, National Center for Scientific Research "Demokritos", Greece

Title: Nanomembrane process for treatment and reuse dyes effluent from Al-Kut Textile Factory: Recent progress in fouling control
Hatem Asal Gzar, Wasit University, Iraq

Title: Understanding Nanofiltration: A Molecular Separation with Nanometer Effects
Xiao-Lin WANG, Tsinghua University, P.R. China

Title: Management of stormwater by ultrafiltration
Vandré Barbosa Brião, University of Passo Fundo - Brazil

Title: Nanostructured Polymer-Graphene Hybrid Coatings for Membrane Separations and Energy Applications
Michael Z. Hu, Oak Ridge National Laboratory, USA

Title: 3Deem Fluorescence Spectroscopy For On-Line Membrane Bioreactor Fouling Control
G. Lesage, Université de Montpellier, France

Title: Sustainable synthesis and separation with solvent-resistant membranes
Gyorgy Szekely, The University of Manchester, UK

Title: Fabrication of mixed matrix membranes for wastewater reclamation
G.Arthanareeswaran, National Institute of Technology Tiruchirappalli, India

Title: Hydroxyl
Title: Nano-Textured Polymer And Biopolymer Membranes For For Nanoparticle, Fungi, Mold, And Heavy Metals Ions Removal
A.L. Yarin, University of Illinois, Chicago
Fahd Alghunaimi, EXPEC Advanced Research Center, Saudi Arabia

Title: Effect of Osmotic Pressure Equilibrium on Water Permeation through Semi-Permeable Membrane
Yu Chang Kim, Korea Institute of Machinery & Materials, South Korea

Title: Mesoporous materials are meso scale remedies for biofouling mitigation
Yasin Orooji, Nanjing Tech University, P.R. China

Title: Dynamics of Hydrogen Permeation across mono- and bi-Layer Hollow Cylinders: Electrochemical and Gas-Phase Impedance Spectroscopy Analysis
Pierre MILLET, Paris-Sud University, France

Title: A novel semi-aromatic polyamide TFC nanofiltion membrane
Lifen Liu, Zhejiang University of Technology, China

Title: Preparation and characterization of amphiphilic polyamide nanofiltration membrane with improved antifouling properties by two-step surface modification method
Congjie Gao, Zhejiang University of Technology, China

Title: Three-Dimensional Network Structure Architecture via UV Irradiation in Canion Exchange Membranes for Electrodialysis Applications
Jiangnan Shen, Zhejiang University of Technology, China

Title: Hybrid membrane process with catalytic micro-reactor
Bao Yueping, Nanyang Technological University (NTU), Singapore

Title: Preparation and characterization of PVDF/reduced graphene oxide nanocomposite membranes for air gap membrane distillation
Ahmed Abdel-Karim, The University of Manchester, UK

Title: Synthesis and electrochemical studies of cobalt arsenate composite membrane
Rafiuddin, Aligarh Muslim University, India

Tentative Speakers

Title: Preparation of high-flux nanoporous solvent resistant PAN membrane with potential fractionation of dyes and Na2SO4
Jiangnan Shen, Zhejiang University of Technology, China

Title: A durable and antifouling monovalent selective anion exchange membrane modified by synergy of polydopamine and sulfonated reduced graphene oxide
Jiangnan Shen, Zhejiang University of Technology, China

Title: One-pot approach to prepare internally cross-linked monovalent selective anion exchange membranes
Jiangnan Shen, Zhejiang University of Technology, China

Title: Preparation and characterization of amphiphilic polyamide nanofiltration membrane with improved antifouling properties by two-step surface modification method
Jiangnan Shen, Zhejiang University of Technology, China

Title: Imidazole-based anion exchange membranes were crosslinked by click reaction with improved water uptake for electrodialysis
Jiangnan Shen, Zhejiang University of Technology, China

Title: Preparation and characterization of TiO2-doped ZrO2 and nanofiltration membrane deposited on low-cost bentonite support for filtration of dyes and heavy metal solutions
Abdelmjid Bouazizi, University of Hassan II, Morocco

Title: Jetfiltrations Of Membrane Technology To Water/Wastewater For The Middle-East Region
ElSayed Ahmed ElNashar, Kafrelsheikh University, Egypt

Title: Photo-responsive ZnO polyamide (PA) thin film nanocomposite (TFN) membrane for water desalination
Ahmed Al Mayyahi, University of Basra, Iraq

Title: A method and a system for converting large quantities of wastewater into water and fertilizer - the YSATÎ case, basedon Patent INPI PI 0905596-7 A2
Silvio Ricardo Taboas, tabVlae Engineering Services ltda, Brazil

Title: Anaerobic Membrane Biotechnology for Wastewater Treatment: Fouling Control and Energy Considerations
Muhammad Aslam, Inha University, South Korea

Title: Two-Dimensional Metal Carbides (MXenes) Membranes: New Frontiers for Water Treatment Applications
Khaled A. Mahmoud, Hamad Ben Khalifa University, Qatar

Title: Development of Homochiral Metal Organic Framework (MOF) Membrane for Efficient Chiral Separation
Jun Yong Chan, Monash University, Australia

Exciting Opportunity For The Young Researcher Mind!!!

Young scholars are not just new intros in the scientific community; rather are the up surging minds with huge potential to take the advances in the Membrane Science and Technology segment to a height anew.

We'd love to have these exceptional students speak and share their ideas for a major brain-storming session among themselves; attendees from education and industrial sectors.

Abstract Submission Link:

https://membranescience.conferenceseries.com/abstract-submission.php

Be on the World's finest Membrane Science and Technology Technocrat Speakers' list!

Register now to grab this opportunity!

POSTER PRESENTATION

Put your thoughts on the canvas and showcase it to the participants. If you are looking forward to share your work with like-minded and similarly focussed people, then Poster would make a perfect path to join the heart of this conference.

YOUNG RESEARCHERS' FORUM

A very few students can hold on to the opportunity of giving an Oral Presentation along with those highly affiliated expert minds. Exceptional abstracts can grab this chance and exhibit their research verbally.

INDUSTRY REPRESENTATIVE

Communicate the ideas on behalf of your organization in the form of a scientific talk or be a delegate to proxy your company's attendance at the Meet.

INTERATIVE BOOTHS

Showcase the latest product or service of your industry. Book your booth and avail free passes to the conference sessions.

B2B and B2A SESSIONS

At the Membrane Science 2018 London, industries are welcome to display their products in the industrial exhibition, organise a symposium/workshop or benefit from many other sponsoring opportunities.

Experience the demonstration of finest ideas from best speakers of this field, meet with industry partners and customers, and examine recent market trends and opportunities- all over the luncheon and coffee break sessions.

Minimise this gap between the lab and the industry, meet your rivals and contemporary only at Membrane Science 2018 London

For details of the conference click:
https://membranescience.conferenceseries.com/

Sponsorship & Exhibiting Opportunities are open for benefits of and exposure among a diverse range of attendees at Membrane Science and Technology Conferences!!!

Being in London

London 2018

London is a most imperative worldwide city, with qualities in expressions of the human experience, instruction, trade, stimulation. Innovative work, tourism, and transport all adding to its unmistakable quality it is one of the world's driving monetary focuses and world social capital. London is the world's most-gone to city as measured by universal appearances and has the world's significant city air terminal framework measured by traveler movement. London is the world's driving venture goal facilitating more. As indicated by the report London likewise positions first on the planet in media advancement and outline, programming and offers initially position in innovation preparation.

London is the capital and most crowded city of England and the United Kingdom. Remaining on the River Thames, London has been a noteworthy settlement for two centuries, its history backpedaling to its establishing by the Romans. The London Eye is a giant Ferris wheel sited on the edge of the River Thames. A short leave, the range gloats the London Aquarium the Shard, opened a watching stage to the general population. Other significant vacation destinations in London incorporate the Buckingham Palace, Tower of London , Tower Bridge Experience, Madame Tussauds, London Dungeon, ZSL London Zoo and St Paul's Cathedral.



For Early Bird Confirmations

Membrane Science 2018 London

BE THERE TO LIVE THE LIVE DISCUSSION!!!

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For details about Sponsorship and Exhibition Click on https://membranescience.conferenceseries.com/exhibition.php

Check the Conference Updates and status at https://membranescience.conferenceseries.com/

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Scientific Program

International Conference on

Membrane Science and Technology

September 11-12, 2017 Paris, France



UK: Conference Series llc LTD
47 Churchfield Road, London, W3 6AY
Toll Free: +44 8000148923

Conference Day 01 | September 11, 2017

Hall Name: Buttes & Oscars

08:00-08:30	Registrations
08:30-08:55	Welcome Note & Opening Ceremony

KEYNOTE SESSION

08:55-09:00	**Introduction**
09:00-09:45	**Title: Metal-organic framework membranes for CO_2 capture, biofuel purification and water desalination: A computational perspective** **Jianwen Jiang,** National University of Singapore, Singapore
09:45-10:30	**Title: Recent advance in direct ethanol fuel cell for sustainable energy production** **L An,** The Hong Kong Polytechnic University, China

GROUP PHOTO

REFRESHMENTS AND NETWORKING BREAK 10:30-10:50 @ Foyer

10:50-11:35	**Title: Membrane bioreactor operation–past achievements and future challenges** **Christoph Brepols,** Erftverband, Germany

Sessions: **Membrane Filtration | Membrane Development and Characterization**

Session Chair: P Millet, Université Paris-Sud, France

Session Co-chair: Christoph Brepols, Erftverband, Germany

Session Introduction

11:35-12:00	**Title: Neophil long lasting hydrophilic PVDF ultrafiltration in GIGAMEM large modules: Benefits and case studies of Polymem large plants performances** **Olivier Lorain,** Polymem, France
12:00-12:25	**Title: Ultra-wetting graphene based ultrafiltration membranes for efficient wastewater treatment** **J Antony Prince,** Ngee Ann Polytechnic, Singapore
12:25-12:50	**Title: Continuous fabrication of composite hollow fiber membranes for humidification** **Isabel Jesswein,** University of Stuttgart, Germany

12:50-13:15	**Title: Cellulose based hollow fiber carbon membranes for CO_2 removal from high pressure natural gas in subsea process** **Xuezhong He,** Norwegian University of Science and Technology, Norway

LUNCH BREAK 13:15-14:15 @ Sunset 2

14:15-14:40	**Title: Electrokinetics tools to better characterize synthetic membranes and help understanding their behavior in contact with real fluids** **Maxime Pontie,** Angers University, France
14:40-15:05	**Title: Synergy between anti-adhesion and antimicrobial effects of Ag doped mesoporous carbon PES UF membrane** **Yasin Orooji,** Nanjing Tech University, PRC

YOUNG RESEARCHERS' FORUM 15:05-17:25

15:05-15:25	**Title: Membrane crystallization of valuable salts from waste streams** **Israel Ruiz Salmón,** Université catholique de Louvain, Belgium
15:25-15:45	**Title: Development of reverse osmosis membrane based on UiO-66 nanoparticles deposited on polymeric support** **Dai Xuan Trinh,** Japan Advanced Institute of Science and Technology, Japan

REFRESHMENTS AND NETWORKING BREAK 15:45-16:05 @ Foyer

16:05-16:25	**Title: Scale-up and predicting flux-pressure relationships of tangential flow filtration (TFF) using a combined computational fluid dynamics (CFD) and ultra-scale-down (USD) techniques: Method and Application** **Mohd Shawkat Hussain,** University College London, UK
16:25-16:45	**Title: PVA and cellulose nanocrystal (CNC) nanocomposite membranes for CO_2/CH_4 separation at higher pressure** **Zaib Jahan,** Norwegian University of Science and Technology, Norway
16:45-17:05	**Title: Optimization of ceramic membrane for oil-water separation** **Harjot Kaur,** Thapar University, India
17:05-17:25	**Title: The synthesis of zeolitic imidazolate framework-95/matrimid® mixed matris membranes for CO_2, CH_4, and H_2 separations** **Ilke Ilicak,** University of Istanbul, Turkey

PANEL DISCUSSION

Conference Day 02 | September 12, 2017

Hall Name: Buttes & Oscars

KEYNOTE SESSION

09:00-09:45	**Title: Novelties in membrane processes management by a sustainable approach: From autopsy to reuse of old reverse osmosis (RO) membranes** **Maxime Pontie,** Angers University, France
09:45-10:30	**Title: High selective carbon membranes for water and gas separation** **Hannes Richter,** Fraunhofer Institute for Ceramic Technologies and Systems, Germany

REFRESHMENTS AND NETWORKING BREAK 10:30-10:50 @ Foyer

SPECIAL SESSION

10:50-11:35	**Membrane science much essential for developing countries** **Bhibin Sherchan,** Sunrise Nepal Pvt. Ltd., Nepal

Sessions: Membrane Development and Charecterization | Gas and Vapour Separation | Ion Exchange Membrane

Session Chair: Hannes Richter, Fraunhofer Institute for Ceramic Technologies and Systems, Germany

Session Co-chair: Zdenek Slouka, University of Chemistry and Technology, Czech Republic

Session Introduction

11:35-12:00	**Title: Polymer electrolytes membranes for energy applications** **Asmae Mokrini,** National Research Council of Canada, Canada
12:00-12:25	**Title: Analysis of the dynamics of hydrogen permeation across Pd-based metallic membranes using gas phase impedance spectroscopy** **P Millet,** Université Paris-Sud, France
12:25-12:50	**Title: Benzene plume behavior in a saturated subsurface system: influence of the mass transfer and dispersion coefficients** **Hatem Asal Gzar,** Wasit University, Iraq

LUNCH BREAK 12:50-13:50 @ Sunset 2

POSTER PRESENTATIONS 13:50-14:30 @ Foyer

MST-001	**Title: Swelling of heterogeneous ion-exchange membranes analyzed by micro-computed tomography** **Lucie Vobecka,** University of Chemistry and Technology, Czech Republic

MST-002	**Title: Taurine extraction from waste seafood canning using membrane processes** **Beatriz Cancino-Madariaga,** Universidad Técnica Federico Santa María, Chile
MST-003	**Title: A resistance-based approach to scale-up of membrane filtration** **Susanne Haindl,** Leibniz University Hannover, Germany
MST-004	**Title: Mechanical, thermal and swelling properties of cellulose nanocrystals/PVA nanocomposites membranes** **Zaib Jahan,** Norwegian University of Science and Technology, Norway
MST-005	**Title: Synthesis, characterization and gas permeation study of HAB-6FDA/ZIF-11 mixed matrix membranes** **Ayse Gizem Kirikci,** University of Istanbul, Turkey
14:30-14:55	**Title: Electrochemistry, electrokinetics and microCT analysis of heterogeneous ion-exchange membranes** **Zdenek Slouka,** University of Chemistry and Technology, Czech Republic
14:55-15:20	**Title: Spin transport of the frustrated quasi-two-dimensional XY-like antiferromagnet** **L S Lima,** Centro Federal de Educação Tecnológica de Minas Gerais, Brazil
15:20-15:45	**Title: Excellent biofouling alleviation of thermoexfoliated vermiculite blended polyethersulfone ultrafiltration membrane** **Yasin Orooji,** Nanjing Tech University, PRC
15:45-16:10	**Title: Effects of monovalent ions on membrane potential and permselectivity of polymer based zirconium aluminophosphate composite membrane** **Rafiuddin,** Aligarh Muslim University, India

VIDEO PRESENTATION

16:10-16:20	**Title: Computational study of the effect of spin-orbit coupling on photo-physical properties of metal complex for dye sensitized solar cell** **Ratna Juwita,** National Central University, Taiwan

REFRESHMENTS AND NETWORKING BREAK 16:20-16:40 @ Foyer

PANEL DISCUSSION

Awards & Closing Ceremony