

Program

9 :30 - 10 :00 - Welcome – Prof. Philippe Miele (Director of European Institute of Membrane –Montpellier), Region, Agglomeration of Montpellier

10 :00-10 :45 - Prof. Alain Grasmick - IEM - Montpellier (France)
"Introduction to MBRs - The recent EU projects (MBR cluster)- And outside (USA and China/ANRs)"

Coffee break

11 :00 – 11 :30 - Dr. Claire Albasi - LGC - Toulouse (France)
"New MBR design for microorganic pollutants - The case of hospital wastes – The MBRMed CTP project"

11:30-12:00 – Dr. Ignasi Rodriguez-Roda – ICRA – Girona (Spain)
"How to deal with the analysis of micropollutants with MBR technologies?"

Round table 1 /Moderators: - Dr. Christelle Guigui – INSA Toulouse & Annie Tazi-Pain – Veolia Paris. "MBR technology as it is now in practice"

Lunch 12:45-14:00

14:00 – 14:30 - Dr. Marc Heran – UM2 Montpellier (France)
"An old idea...but also a strong perspective for tomorrow: the anaerobic membrane reactor"

14:30-15:00 - Prof. Joao Crespo – UNL - Lisbon (Portugal)
"The elimination of highly pollutant inorganics and ions – The case of perchlorates"

15:00 – 15:30 - Dr. Chris Dotremont , VITO – Belgium
"MBRs: the next generation: New opportunities in a biobased economy"

Round table 2 /Moderator: Prof. Gilbert Rios - EMH (WssTP, EIP on Water, ...)
"What is the EU vision on this question?"

End 16:15

Information

Contacts

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Registration

50 Euros (Conference fees include attendance, lunch, coffee break, portfolio and documentation)

Venue

Amphitheatre of CNRS Montpellier
CNRS Région Languedoc-Roussillon
Route de Mende n°1919
34293 MONTPELLIER Cedex 2,
FRANCE

transferts 

Agence Régionale de l'Innovation
du Languedoc-Roussillon



**"Membrane Bioreactors for Water
& Wastewater Treatment :
Where are we? Quo vamus?"**

16 May 2013 - Montpellier, France

CNRS Amphitheater

**A One-Day Seminar
with Prominent Speakers
Addressing Membrane Bioreactors
Process and Challenges**

MBRMed Partners



Technical Support



This seminary is an output of various regional actions

About the Speakers

Alain Grasmick, France

Professor in Polytech'Montpellier, Engineering School of University of Montpellier (where I have been in charge of the Department of Water Sciences & Technologies and Vice Dean of the School). My research activity is developed in the European Membrane Institute of Montpellier.

My activity concerns teaching and research in water and wastewater treatment processes integrating liquid-solid separation step and / or biological reactor: (i) physico-chemical separation systems and (ii) intensive biological systems (biofilter, trickling bed and membrane bioreactor notably). Nowadays my research activity is focused on the definition of new concepts of water treatment favouring reuse of treated water and recovery of energy and by-products.

Chris Dotremont, Belgium

She is holding a PhD in Applied Biosciences and is specialised in the domain of environmental research and development, more specific in technologies for wastewater treatment & recycling and for the production of process water and drinking water. She has gained profound expertise in membrane technology with a track record of more than 20 years in membrane development. Currently, she is heading the membrane engineering team at VITO – the Flemish Institute for Technological Research. Today's research topics are focused on membrane bioreactors, membrane distillation and organophilic pervaporation for in-situ-product-recovery (ISPR).

Joao Crespo, Portugal

Professor of Chemical Engineering at Universidade Nova de Lisboa (NOVA), Portugal, where he is Vice-Rector for Research and Innovation. Former Vice-President of Fundação para a Ciência e a Tecnologia (Portuguese National Science Foundation) and former Academic Dean of the Faculty of Sciences and Technology at NOVA.

Member of the editorial board of Journal of Membrane Science, Journal of Biotechnology, and Desalination and Water treatment. Founder and member of two university spin-off companies. Research interests: Membrane separation processes; Membrane bioreactors; Process monitoring.

Claire Albas, France

Doctor in chemical engineering and environment with a membrane background, her main research activities are focused on membrane bioreactor following two axes, the first one is devoted to the energy saving by mastering the aeration in sMBR, thanks to CFD performed in sludge, the second one is centred on the application of MBR for hospital effluent treatment, including ecotoxicological test and micropollutants biodisponibility studies, from *in situ* experiments. She is for the 4 next years head of the department "bioprocesses and microbial systems" of the Laboratoire de Génie Chimique in Toulouse. She is also an active member of the "Club Français des Membranes" where she has in charge the animation of the working group on "Water, effluents and agro-food fluids". She is coordinator of two successive ANR projects, "Toxeaubam" and "Panacea". She is member of an ANSES working group, and teaches water treatment in IPST-CNAM.

Ignasi Rodriguez-Roda, Spain

Full professor at the Chemical Engineering Department of the University of Girona (UdG) and head of the Technology and Assessment area at the Catalan Institute for Water Research.. His current main field of research concerns the application of artificial intelligence tools (e.g. decision support systems) for the design, modelling, control and supervision of environmental domains, the activated sludge system, membrane bioreactors and other technologies for wastewater treatment, and the investigation of degradation mechanisms of pharmaceuticals and micropollutants.

Marc Heran, France

Associate Professor of Chemical Engineering at Polytech'Montpellier, He was graduated in 1997 with an Engineering level in water science and technologies and obtained his PhD in 2000 with the thesis High frequency reverse filtration in Micro/Ultrafiltration. Its fields of expertise concern water and wastewater treatment, separation process, membrane separation, biological process and membrane bioreactors. He has taken part in national and international conferences and focuses on waste treatment for tomorrow: water management, waste and valuations of co-products as well as the integration of chemistry of interfaces in the development of selective separation by membrane. His research team has various equipment, and hardware dedicated to wastewater treatment and modeling. And its mains activity is dedicated to process intensification by the help of membranes.

About the Moderators

Annie Tazi-Pain, France

Expert she is in charge of development of innovative hybrid membrane processes for drinking and waste water application. She has especially a great experience of MBR for the treatment of municipal and industrial influent. She was leader of three work-packages in the European AMEDEUS project: Evaluation of three innovative membrane technologies for the MBR, modelling of the biological treatment in a MBR and analysis of standardization of MBR. She is coordinating two research projects (France and Australia). with the objective to determine the most appropriate treatment strategy for waste water recycling using membrane technologies

Christelle Guigui, France

Associate Professor of Chemical Engineering at the Institut National des Sciences Appliquées de Toulouse (INSA Toulouse), her research activity is developed in the Laboratoire d'Ingénierie des Systèmes Biologiques et Procédés (LISBP- UMR INSA/CNRS/INRA) in the field of Membrane Processes and Water Treatment. Her current main field of research concerns (i) the influence of hydrodynamic condition on fouling reduction with local and global hydrodynamics characterisation in MBR, (ii) the development of methods for membrane deposit structural characterization and on line membrane retention and (iii) the identification of membrane fouling compounds and fouling control in membrane water treatment (drinking, MBR and reuse). She was involved in the European Project EUROMBRA dedicated to MBR and in many projects on the development of reuse processes with membrane (including most of time a MBR) for irrigation or for high water quality production. She is a member of the "Club Français des Membranes".

Gilbert Rios, France

He is an expert in the field of Membrane Technologies.. He is a Fellow of the Institution of Chemical Engineers (London), and a Member of other international scientific societies (European Membrane Society –EMS-, European Federation of Chemical Engineering –EFCE- ...)

He acted during 5 years as the coordinator of the European Network of Excellence on "Nanoscale-based membrane Technologies" (NanoMemPro - FP6 NMP). He is serving today as the Chief and Executive Officer of the European Membrane House and also the deputy-director of SIMEV, a UNESCO chair on "Membranes for the environment".

About the Organizers

EMH

The European Membrane House is a non-profit making international association established in 2009 by universities and research institute in 10 European countries working together around membrane technologies within the framework of the Network of Excellence NanoMempro. It aims at gathering the best existing entities in order to create a virtual reference structure in this field of activity.

www.euromemhouse.com

Transfert LR

Founded in 2005 at the initiative of the Region and State, its mission is to support the competitiveness of enterprises through innovation and technology transfer in Languedoc-Roussillon.

www.transferts-lr.org

Trimatec

Established in 2005. Trimatec's aim is to stimulate innovative projects using processes that are clean and safe for humans and the environment, and to provide support for such projects as they emerge. These innovations target a variety of markets, including the environment, energy, health and food processing sectors.

www.pole-trimatec.fr