

Objectives

The European Membrane Institute (IEM / UMR 5635 – www.iemm.univ-montp2.fr) will organize in Montpellier on June 6th a one-day seminary devoted to “Membranes and nanotechnologies”, a hot topic regarding research in progress and new industrial opportunities. Experts from different countries will give their views and their personal experience in this broad area, will report on new trends and perspectives as they appear from literature... the ultimate goal being to discuss the holistic approaches which are necessary to tackle correctly the new challenges. In this field at the interface between chemistry and processes, new materials and new engineering concepts are strongly intertwined, and most of the time there is a strong need to deal with them simultaneously to be successful.

The European Membrane Institute has a long story of collaborative activities in this field (through the coordination of the NoE NanoMemPro, through its leading position with the new Erasmus Master EM3E in Membrane Engineering or its partner position with the EUDIME PhD program as well as through a lot of other projects and achievements). It can offer to the community a strong potential of expertise and facilities. This seminary should help to the emergence of new projects (as an example within the framework of the next FP7 NMP Call programmed in July 2011) and should facilitate first discussions around their preparation.

The European Membrane House (EMH – www.euromemhouse.com) which is the Durable Integrated Structure created at the outcome of the Network of Excellence NanoMemPro (Nanoscale-based membrane technologies – EU/FP6) will support this seminary. The topic and associated societal issues (notably for water treatment) are also of a main importance for the UNESCO chair SIMEV on “Membrane applied to the Environment” (SIMEV – <http://chaireunescosimev.euromemhouse.com/>) which is hosted at IEM.

Registration

The seminary will hold at the Conference Room of the Institute. The participation will be free of charge. The number of places is limited.

In order to facilitate the organization (reservation of the meeting room, buffet, visit) it is asked to the participants to **register before to Monday 23rd by sending an email to:**

Sadika.guedidi@iemm.univ-montp2.fr

Your email should **indicate also if you are interested by the visit of the laboratory?** or not ?

How and why nanoscale-based membrane technologies?

Opening (9:30-10:00)

- Welcome of participants
- Presentation of IEM – Objectives and topics of the meeting
Prof. P. Miele (Dir. IEM) & Prof. G.M.Rios (CEO EMH)

Session 1 (10:00-12:30)

- 1 / Prof. Jesus Santamaria – UNIZAR (Zaragossa - Spain)
What place and perspectives for nanotechnology with membrane technology?
- 2/ Dr. Ingé Genné – VITO (Mol - Belgium)
Nano4water : a large cluster of EU projects concerning membranes and nanotechnologies for water applications
- 3 / Prof. André Ayral – IEM (Montpellier - France)
Nano-enhanced membranes for photocatalytic processes

Buffet (12:30-14:00)

Session 2 (14:00-16:30)

- 4/ Dr Pierre Aimar – LGC (Toulouse- France)
*The views of the JMS Editor on this hot topic:
achievements, trends and perspectives*
- 5/ Prof. Bart Van Der Bruggen – KUL (Leuven - Belgium)
*Use of nanoparticles in polymeric and ceramic membrane structures:
manufacture and performance improvement (Water treatment)*
- 6/ Dr André Deratani –IEM (Montpellier - France)
Blockpolymers and polyelectrolyte layers: today and tomorrow

Round table and discussion (16:30-17:00)

Conclusions

For those who are interested, a short visit of the laboratory will be organized after the end of the seminary