



First Announcement and Call for Papers

# ENGINEERING WITH MEMBRANES: MEDICAL AND BIOLOGICAL APPLICATIONS

Cenobio dei Dogi Hotel  
Camogli - Portofino Coast, Italy  
16-19 May 2005

## The Conference

Following on the success of the previous conferences in the series 'Engineering with Membranes' (Il Ciocco, Italy 1994; Granada, Spain 2001), we are pleased to announce that 'Engineering with Membranes 2005 will be held in 16-19 May 2005 at *Camogli - Portofino Coast, Italy*. This conference particularly focuses on 'Medical and Biological Applications' viewing the growing role that membrane technology plays in healthcare and biotechnological industries.

## Topics

The conference will cover the following topics and related fundamental engineering aspects of membrane processes:

### Medical applications:

Artificial kidney and dialysis  
Artificial pancreas  
Biocompatibility  
Biosensors and online analytical applications  
Blood detoxification  
Blood fractionation  
Dental applications  
Drug delivery and controlled release  
Gas exchange and artificial lung  
Liver assist devices  
Medical membrane preparation  
Regenerative medicine  
Tissue engineering

### Biological Applications:

Bio-interactions at membrane surfaces  
Biosensors and analytical applications  
Cell encapsulation  
Downstream bioprocessing  
Extractive enzyme membrane reactors  
Functional membrane preparation  
Membrane affinity chromatography  
Membrane fermentation  
Membrane validation processes  
Protein fractionation  
Separation of antibiotics  
Sterile gas filtration  
Sterile liquid filtration

## Organising Committee

### Advisory Committee

R Ben Aim (Toulouse, France)  
A G Fane (New South Wales, Australia  
and Nanyang, Singapore)  
J A Howell (Bath, England)

### Organisers of the Conference Series

V Chen (New South Wales, Australia)  
Z F Cui (Oxford, England)  
S Luque (Oviedo, Spain)

### Local Organising Committee

J R Álvarez (Oviedo, EMS repr.)  
A Bottino (Genova, Italy)  
G Capannelli (Genova, Italy)  
G Catapano (Calabria, Italy)  
D B Das (Oxford, UK)

## Important Dates

Submission of abstract (200 words) and pre-registration forms:	15 October 2004
Abstract acceptance notification:	1 December 2004
Registration at reduced rates:	1 March 2005

<http://www.uniovi.es/EWM2005>

Abstract submission: [EWM2005@eng.ox.ac.uk](mailto:EWM2005@eng.ox.ac.uk) Contact: [Susana Luque \(sluque@uniovi.es\)](mailto:Susana Luque (sluque@uniovi.es))

### **Advisory Committee**

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- ❑ **D B Das (Oxford, UK)**
- ❑ **S Luque (Oviedo, Spain), *Chair***

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- ❑ **G Belfort (Rensselaer, USA)**
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