International Congress on Membranes and Membrane Processes

Project ID: HPCF-CT-2001-00229-01
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International Congress on Membranes and Membrane Processes


Project details

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<th>Total cost:</th>
<th>Topic(s):</th>
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<td>Not available</td>
<td>1.4.1.-3.1S3 - Engineering Sciences</td>
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<th>EU contribution:</th>
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<td>Not available</td>
<td>ACM - Preparatory, accompanying and support measures</td>
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Objective

The International Congress on Membranes and Membrane Processes (ICOM) is held once every three years. Since its inception (1990), it has been organised by the European, Japanese and North American membrane societies. This makes it the foremost scientific event in the membrane world. The next opportunity, after 2002, for organising ICOM in Europe will probably only be in twelve to fifteen years ICOM 2002 aims at presenting the latest advances in membrane science and technology covering the broadest possible range of topics.

The call for papers encourages the presentation of innovative papers in the following areas:
- New membranes (affinity membranes, bipolar membranes, catalytic membranes including enzymatic membranes, "smart" membranes);
- New developments in electro-membranes for fuel cells;
- Recent developments in membrane manufacture and characterisation;
- Characterisation and modelling of fouling: new methods for fouling characterisation, simulation of fouling;
- Developments in process operation, e.g. ways to decrease energy consumption;
- Module design and hydrodynamics;
- Recent improvements in modelling: from statistical modelling to describe a complete, complex system to local simulation (CFD) to better predict mass and/or heat transfer in membranes and modules;
- Novel processes: membrane reactors, membrane contactors;
- Hybrid membrane processes (integration of membranes in traditional processes with synergy effects resulting from the coupling of membranes with other unit operations);
- New applications such as environmental applications (flue gas and wastewater treatment, cleaner technology), medical and healthcare applications (controlled release, artificial organs).

A specific session will be devoted to bio-medical applications and to artificial organs. The organisation of the sessions will promote interaction between specialists in the different scientific fields that all contribute to research on membranes and membrane processes (chemistry, physical chemistry, chemical engineering, fluid).
Coordinator
Type of Event: Large Conference
This event takes place in Toulouse, France

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