



Membranes 2011

5-7 October 2011, Barcelona, Spain

Conference Secretariat

International Center for Numerical Methods
in Engineering (CIMNE)

CIMNE - Congress Management Department

"La Cup", Campus Norte UPC

C/Jordi Girona, 1-3 / 08034 Barcelona, Spain

Phone +34 - 93 405 46 96 Fax +34 - 93 205 83 47

membranes@cimne.upc.edu

<http://congress.cimne.upc.es/membranes2011>

Location

The Conference will take place at the Master Room (Building A3), Campus Nord of the Technical University of Catalonia (UPC), Jordi Girona 1-3 (08034) Barcelona.

The Barcelona of the 21st century is a city shaped by the '92 Olympics, a city transformed for and by the need to do justice to that great international event. The Barcelona we see around us now, the Barcelona we enjoy today, is a new Barcelona, Mediterranean in keeping with its traditions, with its face to the sea and its arms open to other cultures and peoples, giving and receiving, happy to make and to share its riches.

Registration Fees

The registration fees in euro, including social events, with early registration applicable if received before **15th May 2011** are:

	Early	Late
Delegates	490 €	590 €
Students	290 €	350 €

ECCOMAS and IACM members will have a 5% reduction on the delegates fees.

The delegate fees will include:

Conference Proceedings; Attendance at all scientific sessions; Coffee breaks, reception and banquet

Social Programme

A social programme for delegates will be arranged, including a reception and a banquet at a local place of interest, as well as a social programme for accompanying persons.

Accommodation

Block reservations at preference rates will be arranged by the organizers. Detailed information will be available on the Conference site.

Supporting Organisations

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- International Association for Shell and Spatial Structures (IASS)
- International Center for Numerical Methods in Engineering (CIMNE)
- Universitat Politècnica de Catalunya
- Build Air Ingeniería y Arquitectura S.A.
- German Association for Computational Mechanics (GACM)
- Tensairity Structures S.L.



Structural Membranes 2011

V International Conference on Textile Composites and Inflatable Structures

5-7 October 2011, Barcelona, Spain

An IACM Special Interest Conference



<http://congress.cimne.upc.es/membranes2011>

Objectives

The V Conference on "Textile Composites and Inflatable Structures" (Structural Membranes 2011) will be organised on 5-7 October 2011 in Barcelona, Spain.

The previous conferences of these series were held in Barcelona (Spain) on 30 June – 3 July 2003, in Stuttgart (Germany) on 2 - 4 October 2005, in Barcelona on 17 - 19 September 2007 and in Stuttgart (Germany) on 5 - 7 October 2009

The objectives of Structural Membranes 2011 are to collect and disseminate state-of-the-art research and technology for design, analysis, construction and maintenance of textile and inflatable structures. The conference will address both the theoretical bases for structural analysis and the numerical algorithms necessary for efficient and robust computer implementation. A significant part of the conference will be devoted to discuss advances in new textile composites for applications in membrane and inflatable structures, as well as in innovative design, construction and maintenance procedures.

In summary, Structural Membranes 2011 aims to be a forum for discussing recent progress and identifying future research directions in the field of textile composites and inflatable structures.

Plenary Lectures will be complemented by Invited Sessions organised by recognised experts in targeted research areas of particle-based techniques as well as by contributed papers received from the general Call for Papers.

Conference Topics (the list is not exhaustive)

- Adaptivity
- Climate Impact
- Construction Methods
- Design Methods
- Energetic Aspects
- Environmental Aspects
- Manufacturing
- Maintenance Techniques
- New Membrane Materials
- Numerical Methods for Structural Analysis
- Pressure Management
- Testing Procedures
- Applications: membrane roofs and covers, sails, inflatable pavilions and buildings, inflatable bridges and dams airships, spill recovery bags airspace structures inflatable antennas, furniture, etc.

Organising Committee

E. Oñate, Universitat Politècnica de Catalunya, Spain

B. Kröplin, University of Stuttgart, Germany

K.-U. Bletzinger, Technical University of Munich, Germany

Advisory Scientific Committee

E. Barbero, USA

M.C. Bernasconi, Switzerland

A. Bown, UK

D. M. Campbell, USA

J.I. de Llorens, Spain

F. Flores, Argentina

R. Flores, Spain

A.J. Gil, UK

K. Ishii, Japan

M. Kawaguchi, Japan

K. Kurokawa, Japan

K.W. Linkwitz, Germany

J. Llorens, Spain

M. Majowiecki, Italy

J. Marcipar, Spain

E. Moncrieff, Germany

J. Monjo, Spain

M. Mollaert, Belgium

R. Motro, France

H. Ohmori, Japan

M. Papadrakakis, Greece

S. Pellegrino, USA

J. Pons, Spain

A. Pronk, Netherlands

E. Ramm, Germany

R. Rossi, Italy

M. Saitoh, Japan

A. Samartin, Spain

R. Sastre, Spain

K. Schweizerhof, Germany

E. Stach, USA

E. Stein, Germany

T. Stegmaier, Germany

R. Tarczewski, Poland

R. L. Taylor, USA

R. Wagner, Germany

D. Wakefield, UK

P. Wriggers, Germany

R. Wüchner, Germany

An ECCOMAS Thematic Conference

Structural Membranes is one of the Thematic Conferences of the European Community in Computational Methods in Applied Sciences (ECCOMAS). For further information on ECCOMAS visit: www.eccomas.org

Structural Membranes is also an IACM Special Interest Conference. More information about IACM in: www.iacm.info

Important Dates

Deadline for presenting one page abstract **13 February 2011**

Acceptance of the contributions and instructions for writing the paper **11 March 2011**

Deadline for submitting the paper and early payment **15 May 2011**

Booking of hotel accommodation **soon available in the web**

Exhibition

An exhibition on membrane and inflatable structures will be organized in connection with the Conference. Interested exhibitors can find the necessary information on the conference website.

Exhibition of France Railway Station, Barcelona, Spain



Membranes 2011

Barcelona, Spain, 5-7 October 2011

How to register and submit contributions

Authors are invited to submit their contributions on any of the conference topics. Submission of contributions and conference registration should be performed electronically via the conference web site.

<http://congress.cimne.com/membranes2011>