

International Association for Shell and Spatial Structures (IASS)

## Evolution and trends in design, analysis and construction of shell and spatial structures

IASS 50th Anniversary

Under the auspices of:  
Universidad Politécnica de Valencia  
Centro de Estudios y Experimentación de Obras Públicas (CEDEX)



28 September – 2 October 2009

Valencia, Spain

### Objectives

In 1959 Prof. Eduardo Torroja founded the International Association for Shell and Spatial Structures. Since then, the IASS has been a major reference in all fields related to spatial and shell structures, from concept to practical execution. Engineers, architects, researchers and educators have addressed structural science topics in yearly symposia, colloquia and working groups with highly valuable results.

For 50 years the Association has witnessed the evolution of concepts, materials, systems, procedures and tools that are all related to structures. The combined action of each of these factors has led to the present panorama of structures and steers future progress in our discipline.

The 2009 Symposium which, as is customary, is held in Spain every 10 years, aims to gather a wide group of engineers, architects, researchers and educators able to contribute with their work, experience and perspective to the understanding of this past evolution and the exploration of future trends in the field of shell and spatial structures.

### Organizing Committee

C. Lázaro (Co-Chair), A. Domingo (Co-Chair), R. Astudillo, A. Samartín, M. Sánchez, S. Monleón, J. Rovira, P. Fuster, J. Casanova, C. Serna, J. Petri, F. Palacios, E. Moreno, I. Blanc.

### International Advisory Committee

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### Symposium Themes

The Symposium embraces all aspects of shell and spatial structures, including at least the following topics:

#### **Design and morphology**

Conceptual design, form finding, free form design, geometrical tools.

#### **Analysis**

Analytical models and computational methods applied to dynamics, stability, optimization, morphogenesis, control; AI applications.

#### **Materials**

Environmental compatibility, experiences with new structural materials, smart materials, material modelling.

#### **Structural systems**

Shells, spatial trusses and lattices, membranes, cable structures, tensegrity systems.

#### **Realization**

Towers, complex buildings, roof systems, bridges, footbridges, lightweight structures, retractable and deployable structures, construction processes, prefabrication, detailing, testing, monitoring and control.

#### **Other topics**

Historical buildings, damage and collapse, structural pathology.

### Venue & Dates

The symposium will be held at Hotel Westin and Palacio de la Exposición in Valencia on September 28 – October 2, 2009. Special room rates will be negotiated with nearby hotels to offer a range of differently priced accommodation.

### Call for papers

Authors are invited to submit abstracts of about 400 words on any of the above mentioned topics. The abstract should be accompanied by full address, fax number and e-mail address of the principal author(s), and should be uploaded to the symposium website.

### Deadlines

Submission of abstracts	January	31, 2009
Notification of preliminary acceptance	February	28, 2009
Submission of full paper	May	15, 2009
Notification of paper acceptance	June	30, 2009

## Registration

	<u>Standard Fee</u>	<u>Late Fee</u> (from July 15, 2009)
IASS members	550 €	600 €
IASS members > 25 years	500 €	550 €
IASS non-members	650 €	700 €
Accompanying persons	350 €	400 €
Students	150 €	200 €

Registration fees for students do not include the Reception Cocktail and Gala Dinner. Tickets can be purchased separately.

## Social Programme

Monday, September 28: Reception Cocktail  
Wednesday, September 30: Technical Excursion  
Thursday, October 1: Gala Dinner

## Language

English will be the official language for both oral and written presentations. No simultaneous translation will be provided for the technical sessions.

## Contact

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## Secretariat IASS 2009 Valencia

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Phone: +34 932 388 777

## Web site

Updated information on paper preparation, technical sessions, keynote and invited lectures, registration, accommodation and other related matters will be posted on the symposium web site:

[www.iassvalencia2009.com](http://www.iassvalencia2009.com)

## In and around Valencia

The city of Valencia sits at the centre of the Spanish Mediterranean coastline. Founded by the Romans in the year 138 BC, Valencia has accumulated enormous wealth from all the cultures which have resided here over the centuries. In the city you can see relics of Roman, Visigoth, and Islamic Cultures. Stroll through Valencia and feel the plurality and evolution of a city where prosperous historical tradition and recent and innovative architecture stand side by side. Gothic, Baroque and Modernist monuments, varied and renowned museums, architectural projects such as the City of Arts and Science are but a few of the many attractions which Valencia has to offer.

Valencia is one of the main industrial centres on the Mediterranean. It has also become a European conference venue, as well as an important focal point for international business and trade fairs. Valencia is a cosmopolitan city and is ideal for commerce and cultural exchange. Over the last years, the city has shown its splendour to the world as the host of major international events such as the America's Cup and the F1 European Grand Prix.

This beautiful Mediterranean city enjoys a mild temperate climate and offers a wealth of gastronomic delights, festivals and cultural events. Visit Valencia and enjoy the very pleasant surprises it can offer.

## 7th IASS Hangai Prize

IASS has established the Hangai Prize for young talented researchers, designers and engineers in the field of shell and spatial structures. The 7th IASS Hangai Prize will be awarded at the 2009 Valencia Symposium. Further information for applicants is available at this site: <http://hangai-prize.iis.u-tokyo.ac.jp/>



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UNIVERSITAT  
POLITÈCNICA  
DE VALÈNCIA

**CEDEX**

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(CEDEX)



MINISTERIO  
DE CIENCIA  
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