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Open Building Implementation



## **CIB W104 International Conference: OPEN AND SUSTAINABLE BUILDING**

**16<sup>th</sup> International Conference** of the CIB W104 Open Building Implementation on  
“**Open and Sustainable Building**”, organized jointly with Tecnalia.

**May 17-19, 2010 Bilbao (Spain).**

### ***Venue***

The Conference is being held at the **Euskalduna Conference Centre and Concert Hall** (<http://www.euskalduna.net>) in **Bilbao (Spain)**. Inaugurated on February 19<sup>th</sup> 1999, this is a very unique building and is one of the flagships of the new Bilbao of the 21<sup>st</sup> century.

Although The Euskalduna Conference Centre and Concert Hall is in the city centre it is also a few minutes away from the airport and boasts convenient connections to highways, railways and seaports. Nearby are some of the major museums of Bilbao (the Guggenheim Museum, the Museum of Fine Art, the Ría de Bilbao Maritime Museum), as well many hotels, shops and restaurants, all within walking distance.

### ***Date***

May 17-19, 2010

### ***Language***

The language for the Conference is English with simultaneous translation (Spanish to



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English, English to Spanish)

### ***Short introduction of the aims and objectives of the Congress***

This conference is one of a series held around the world in recent years focused on developments in the building industry related to new realities in the built environment. These developments are occurring in support of two major societal objectives: 1) an adaptable – and thus sustainable - building stock and, 2) a more user-centered process of design and construction. A process formerly restricted to office buildings and shopping centers is now becoming mainstream in housing and health care facilities. That is, one party constructs a base building, in such a way as to define architectural and urban character, interior public spaces and circulation, and primary utility system pathways. These “open” buildings are fitted-out unit-by-unit initially and over time by other parties, to meet the individual (and changing) preferences of inhabitants “behind their front doors”. “Private” infrastructure of each unit of occupancy connects to the “public” infrastructure of the base building. These developments – which are happening internationally - are spawning new kinds of businesses, the development of new products and management tools, and the introduction of new regulations and financing tools to match. This conference will examine the changing roles and methods of knowledge management, new architectural design concepts, and evolving technical solutions accompanying this new reality.



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### ***Short introduction of the CIB W104***

CIB W104 was formed in 1996. Members come from many countries including the USA, the Netherlands, the UK, Finland, France, Japan, Korea, China, Taiwan, Mexico, Brazil and South Africa.

The commission's purpose is twofold. First, it documents developments toward open building internationally. Second, it stimulates local implementation by disseminating information and by holding international conferences at which government and university researchers, practitioners and others exchange information and support local initiatives. These activities focused originally on the technical and methodological aspects of residential open building but are now extending to other building types. There are continuing exchanges between colleagues in the less developed countries and developed countries, but the dominant focus was the latter.

Between 1996 and 2008, the commission met 14 times, sometimes with other CIB Commissions, in Delft, Tokyo, Taipei, Washington, DC, Mexico City, Brighton (UK), Helsinki, Paris, Hong Kong, and Muncie, Indiana (USA). Each conference has produced a published book of proceedings, containing a total now of over 300 peer-reviewed papers.

### ***Short introduction of Tecnalia***

Tecnalia is a private, independent and internationally recognized Technology Corporation created within the Basque technology environment. We include the



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following Technology Centres: Azti, Cidemco, European Software Institute (ESI), Fatronik, Inasmet, Labein, Neiker, Robotiker. Some facts about Tecnalia:

- ✓ More than 1,350 persons 165 PhDs, 120 taking the PhDs
- ✓ 115 M€ annual incomes
- ✓ Over 3,600 clients per year
- ✓ 26 patents per year
- ✓ 2nd Spanish organisation in returns from European 7th Framework Programme projects
- ✓ 40 Projects in which TECNALIA participated, of which we have led 4, with a total income of 13.4 Million Euros
- ✓ 12 international offices located in France, Bulgaria, USA, Chile, Argentina, Brazil, Ecuador, Mexico, China and Australia.

Our mission is to offer value and wealth to society in general, and to the business community in particular, by means of research and innovation. Our operation model is based on sector-based business units. The market focus and our specialisations are our identify signs. Our business units, are made up of multidisciplinary teams. These units optimise our offers to the various strategic sectors, allowing us to offer more comprehensive, specialised and excellent services for business and government.

The fields of activity in which building is applied range from the cutting - edge proposals aimed at the manufacturers of materials through the use of nanotechnology to satisfying



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tecnalia  
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the needs of local leaders as regards saving our heritage. To this we should add the support offered to new businesses related to industrialisation and energy in building.

### ***List of topics for the call for abstracts***

Prospective authors are invited to submit abstracts of 500 words, maximum, (in English) before September 4, 2009.

The abstracts should include the title, body of the text, and keywords. On a separate cover sheet, authors' names, paper title, affiliation, and contact details must be provided.

The abstract must be sent to the following e-mail address [jachica@labein.es](mailto:jachica@labein.es) or uploaded to the Congress website, [www.labein.es](http://www.labein.es).

Abstracts are invited in the following broad areas:

- Market size, segmentation and demand for adaptable or open buildings
- Case studies: successful past attempts at procuring change-ready buildings
- Implications of open building procurement for stakeholders involved, design & construction process, and facilities management know-how
- Base building architecture: new thinking in regard to interior public space and facades as architectural issues
- An Infill industry: a new business entity to meet the demand for variable fit-out
- New technical products and processes to make open building work effectively
- Economic studies of open building processes and results



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- Knowledge and design management in open building implementation
- Incremental housing in developing societies: working with inhabitants in open building processes
- Change-ready hospitals – open building in the healthcare sector
- Open-building for ageing people
- Cost efficient upgrading for energy efficiency through adaptable, open buildings.

### ***The International Student Competition***

An international “Open Building” student competition will be held in association with the Congress. Currently enrolled students are invited to submit design proposals, to be judged by an international jury of industry leaders. Cash awards and stipends to support travel to the Congress will be granted to the top entries. Winning entries will be published in the conference proceedings.

Instructions for submitting abstracts, papers and student competition entries will be available soon in the website at: [www.labein.es](http://www.labein.es)

### ***International Scientific Committee***

Prof. Dr. Stephen Kendall, Ball State University, USA

Prof. Dr. Beisi Jia, University of Hong Kong, China

Prof. Dr. Kazunobu Minami, Shibaura Institute of Technology, Japan

Prof. Dr. R.P.Geraedts, Delft University of Technology, The Netherlands



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Additional members to be determined

### ***National Organizing Committee***

Dr. Javier Urreta Director of Tecnalia Construction

Ms. Azucena Cortés, Manager of Sustainable Building and Built Environment

Mr. Juan Pérez, Head of R&D for Innovation in Construction Processes

Dr. José A. Chica, Head of Industrialised Construction

Additional members to be determined

### ***Contact details of the National Organizing Committee***

Dr. Ing. Jose A. Chica, Ph. D. Eng.

Head of Industrialised Construction. LABEIN-Tecnalia

C/ Geldo - Parque Tecnológico de Bizkaia. Edificio 700.

E-48160-DERIO (Bizkaia) - SPAIN

Tel.:+34 94 607 33 88 (direct dial); Tel.:+34 94 607 33 00; Fax: +34 94 607 33 49

[jachica@labein.es](mailto:jachica@labein.es), [www.labein.es](http://www.labein.es)

### ***Congress Proceedings***

Peer reviewed papers will be published in an indexed publication.

### ***Key dates***

Early registration: 1 October 2009

Deadline for the submission of abstracts: 4 September 2009

Notification of abstract acceptance: 25 September 2009



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Manuscript submission deadline:	8 January 2010
Notification of final acceptance:	1 February 2010
Submission of revised manuscripts:	1 April 2010
Deadline for conference fee for authors	15 April 2010
International Congress:	17 – 19 May 2010

**Registration fees**

	Received before September 1st, 2009	Received after September 1st, 2009
Participants(*)	350 €	450 €
Lecturers, presenting authors	200 €	300 €
Student Competition Winners	0 €	0 €

(\*) For a limited number of delegates classified as architecture or structural engineering students, the National Organising Committee will cover partially the registration fee. The final fee for them will be 100 €, covering delegate information pack, Congress proceedings, lunches and coffees.

- The Conference fee is reduced for one presenting authors per paper. At least one author of each accepted paper is expected to be present at the Congress. Accepted papers will not be included in the published proceedings unless payment of the conference fee is received by 1st February 2010.
- Conference registration fee includes a delegate information pack, Congress proceedings, lunches and coffees.





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- Registration fees should be paid to (see details on [www.labein.es](http://www.labein.es))
- Upon receipt of your registration form and payment, the secretariat will send you a receipt of payment. The receipt should be presented when registering at the Conference.
- Cancellation should be made to the secretariat with a written notice. Refunds will be available with a 15 percent cancellation charge before January 15th, 2010. No refunds will be provided after January 15th, 2010.