



**International Council  
for Research and Innovation  
in Building and Construction**



**December 2011**

## **Forthcoming Meeting**

### **W107 - Construction in Developing Countries**

#### ***Call for Papers***

## **World Construction Conference 2012 - Global Challenges in Construction Industry**



**28-30 June 2012, in Colombo, Sri Lanka**

The Ceylon Institute of Builders (CIOB), International Council for Research and Innovation in Building and Construction (CIB) and Building Economics and Management Research Unit (BEMRU), Department of Building Economics, University of Moratuwa, Sri Lanka are organising the Ceylon Institute of Builders World Construction Conference 2012 on 28th -30th June, 2012.

The congress will provide a special forum for researchers and practitioners in the area of challenges for construction industry worldwide to share their knowledge, experience and research findings.

### **Conference Theme**

The construction industry of most developing countries face the issues of chronic resource strategies, lack in technology and low technology experience. Culture affects construction projects, firms and sites. Globalization's impact as the involvement of international finances help implement major infrastructure projects, job opportunities and technology transfer while the competition among the foreign entities lower project costs. The down side to globalization is that most local firms have no large funds to bid for private projects and they lack technical

expertise to under-take foreign funded projects. Soil erosion, drought, flooding, salinization, alkalisation, aridity, rapid loss of forest cover are common environmental problems. And speedy and unorganized urbanization lead to air pollution while putting pressure on old or solid waste management systems.

Each country faces a unique set of challenges in their construction industry. The adaptation of the industry to meet these issues have taken place over the years and the methods practiced have become solidly established. Knowledge transfer between countries on such methods can help each other identify methods they can apply in their day-to-day challenges faced.

The need to conduct honest environmental analysis and adhering to standards goes a long way in the reputation of the contractor and suppliers as well as the long term cost effectiveness of the project for the project owner. The source of material, its use, processors conducted, machines used and designs implemented, discarding of waste and maintenance be should be included in early decision making. Hence the life-cycle perspective, from beginning – end should be considered to prevent or reduce environment pollution in all forms, before, during and after project. It is also

important that students, be taught on the platform of sustainability.

All stakeholders of the industry should concentrate on how to develop their energy management processors, where a large amount of cost savings can be made. The stakeholders' collaboration at the planning stage could result in energy optimized lighting, heating and ventilation systems, thereby reducing long-term running costs of the building and reduced emission of heat and energy wastage. Energy Management in construction is a relevant topic for preventing global warming.

Project Financing is a critical area in construction industry, with the need of proper feasibility study and costing initially being carried out. Unforeseen costs due to varied unexpected events and delays can cost millions for project financiers. Risk Management in the Construction Industry is key in terms of managing cost, environmental sustainability, safety, time and quality. Be it a tight project schedule, design variations, approval procedures, high performance vs quality expectation or program design issues, taking short cuts results in high costs as well as considerable safety. Those specializing in these topics in the construction industry can provide much insight to the industry at large.

The construction industry continues to evolve with changes in socio-economic scene, the world of architectural designs over time as well as environmental challenges and requirements. Learning from those who have experienced any of the above, and being prepared helps any country in the world, i.e. be it facing a tsunami, earthquake, need for new engineering feats or the need to use basic resources during a repressive economy: the construction industry should be prepared. Continuous learning facilitates this process. The learning of new concepts, techniques and tools: the adoption of know-how helps the industry develop and sustain.

The construction industry most often employs traditional, proven methods that have over many years provided solid solutions. But the need for innovative practices and robotics in construction is increasing with the increase in complexity of modern projects and their urgency. Innovative design elements could offer shorter times spans and cost effectiveness. Robotics too is making way into the construction industry, though at a slow pace. The side-by-side development of the IT, Robotics and the Construction industry, will surely prove to be mutually beneficial.

Efficient purchasing of labor, material and equipment offers project owner with lowered costs. It is important to have in place procedures that will deliver value for money: from the early procurement of long-lead items, through labour and material management, material flow, warranty fulfillment, return of material

to expediting orders. Procurement management is a large subject area in construction industry alone.

### Abstract Submission

The main theme of the Conference is Global Challenges in Construction Industry

Authors are invited to submit Abstracts written in English within 250 words relating to congress main theme and to the following sub themes:

- Multinational Construction Practices
- Construction in Developing Countries
- Sustainable Development
- Disaster Management
- Energy Management
- Project Financing and Risk Management
- Knowledge/Technology Transfer and Learning
- Innovative Practices and Robotics in Construction
- Information Technology in Construction
- Procurement Management
- Law and Dispute Resolution
- Construction Quality and Productivity
- Stakeholder Management in Construction
- Facilities Management in Construction
- Construction Research and Education
- Construction Marketing

Abstracts should include the full title of the paper and provide a brief and comprehensive summary of the purpose, content and conclusions of the manuscript with 3-5 key words. Author/s are required to provide their name, affiliation, addresses, e-mail addresses and telephone/fax.

All contributions must be of high quality, original and not published elsewhere or submitted for publication during the review period. A scientific committee will review all papers. All accepted papers will be published in the conference proceedings. Papers will only be accepted on the basis that one of the authors will attend the conference and present the paper.

Abstract and full papers can be submitted through the conference secretariat (see contact details provided below). The important deadlines of the congress are as follows.

### Conference Organizers



## Conference Venue



The conference will take place in Cinnamon Grand Colombo, Sri Lanka.

## Important Dates

Abstract Submission	<b>15 January 2012</b>
Notification of Abstract Acceptance	<b>27 January 2012</b>
Full Paper Submission	<b>30 March 2012</b>
Notification of Full Paper Acceptance	<b>27 April 2012</b>
Camera Ready Paper Deadline	<b>18 May 2012</b>
Registration On or Before	<b>18 May 2012</b>
Conference Dates	<b>28 - 30 June 2012</b>

For abstract submission and further enquiries please contact Dr. Sepani Senaratne or Dr. Yasangika Sandanayake through the conference secretariat at [ciobconference2012@yahoo.com](mailto:ciobconference2012@yahoo.com)  
Mob +94771227269 (Chandanie)

## Additional Information

For further information about the conference visit the designated website at: <http://worldsymposium.ciob.lk/>

or contact

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For additional information about CIB W107 contact the Coordinators:  
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You can find more information on the activities of CIB W107 in the CIB online Database "Commissions": see [here](#). In the shown search engine type "W107" in the field "Commission number" and press "Find records".