



## CIB NEWS ARTICLE

International Council for Research and Innovation  
in Building and Construction

Providing a global network for international exchange and cooperation in research and innovation in building and construction, in support of an improved building process and of improved performance of the built environment.

November 2005

### Around the Task Groups and Working Commissions

#### TG55 – Smart and Sustainable Built Environments

## Report on the 2<sup>nd</sup> TG55 International Workshop, 26 September 2005, Tokyo, Japan

by

Jay Yang

### Background

As planned at the inaugural workshop in Canada 2004, the 2<sup>nd</sup> CIB TG55 international workshop was held prior to SB05, for exchange and networking among members and new colleagues. A total of 24 members and visitors attended the workshop, which incorporated a presentation program in the morning, and a technical tour to Obayashi Corporation's Technical Research Institute in Kiyose shi and task group meeting in the afternoon.



Workshop Presentation

The workshop was kindly sponsored by Utsunomiya University (for transportation and workshop organisation) and Obayashi Corporation, Japan (for hosting the technical visit and providing catering, facilities and presentations). Their support was appreciated by all participants.

### Technical Presentations

Eight technical presentations were made in the morning, in two categories of (1) Exchange of views and strategies of sustainable development, and (2) A portrait of current practices and actions. A special invitation was made to Chrisna du Plessis of CSIR, Coordinator of CIB TG38 on Urban Sustainability as well as our TG55 member, to present and share her research work on developing countries. Her presentation and inspirational views were well received.

The presentations will be available in pdf format on the Task Group website at: [www.cibtg55.qut.edu.au](http://www.cibtg55.qut.edu.au) in due course.

*Academic presentations included:*

1. Being Smart and Sustainable in a Third World Context - Chrisna du Plessis, CSIR, South Africa
2. Trends of Smart and Sustainable Building Design and Application in Japan - Nori Yokoo, University of Utsunomiya, Japan and Masafumi Kondo, Ishimoto Architects, Japan

3. A Resource Circulating Society - More Intensive Use of Built Resources by Keeping Them in Closed Loops - David Ness, State Government, South Australia, Australia
4. A Tale of Many Small but Mighty Cities: The Case of the U.S. Army Installations - Ilker Adiguzel, US Army Engineer Research and Development Center, Champaign, U.S.A.
5. Partnerships in Sustainable Built Environments - The Role of Energy Contracting - Sonia Cypra, University of Karlsruhe, Germany and Frank Schultmann, University of Siegen, Germany
6. The Significance and Priorities of ICT for Sustainable Development - Jay Yang, Queensland University of Technology, Australia
7. Climate Change and Energy Based Sustainable Spatial Planning - Andy van den Dobbelsteen, Technological University Delft, the Netherlands
8. Scion's Involvement in NZ Urban Sustainable Residential Environment Projects - Karen Bayne, SCION Next generation biomaterials (formerly Forest Research), New Zealand

### Technical Tour



Technical tour of Obayashi

During the technical tour in the afternoon, senior staff of Obayashi TRI introduced the 240 people strong organisation as well as its advancement in research areas ranging from tri-axial shaking tables for seismic consideration of building foundations through heat island mitigation technologies to roof top greeneries.

Presenters from Obayashi TRI during the technical tour included:

1. Dr Yutaro Omote, Managing Director, TRI, Obayashi Corp, Japan
2. Mr Masayuki Ishii
3. Mr Shun-ichi Higuchi
4. Dr Osamu Yoshida and
5. Mr Hiroyuki Akagawa



The super energy building at Obayashi TRI

### Task Group Meeting

A round table discussion was held to discuss work strategies and action plans of the Task Group. Jay Yang gave a report on recent TG55 events, including TG55 website establishment, release of the edited book, special issue of Journal of Construction Innovation, and the progress of SASBE2006 preparation and organisation.



Jay Yang presenting a token of appreciation to Dr Yutaro Omote, Managing Director, Obayashi, TRI

#### *On Work Strategies and Action Plans:*

Tian Feng invited all to revisit TG55 objectives which centre upon the identification, research and promotion of integrated approaches to developing smart and sustainable built environments.

Jay Yang also reported TG55 initiatives to work with other WCs and TGs. In fact TG55 now has members representing in or sharing information with TG38, TG39, TG43, W078, W098, and W108.

It was stated that TG55 should focus on infrastructure development and maintain a multi-disciplinary approach. USA Green Building Council has now

realised the disconnection between buildings and the infrastructure they operate within. Therefore it will be a challenge and an opportunity TG55 to take this on board.

Overall, the participants feel confident and believe that the Task Group is on the right track of being innovative and integrated in our research and professional endeavours.

*On Short to Medium Terms Goals and SASBE2006:*

Jay Yang reiterated the benefit to develop a technical report based on the presentations and those who will be able to submit papers on their research and project cases. The report will be refereed and published in line with CIB requirement.



Workshop presentation

### **Next Meeting**

The next TG55 meeting will be in November 2006, 2<sup>nd</sup> CIB International Conference on Smart and Sustainable Built Environment (SASBE2006) in Shanghai China!

### **Additional Info**

You can find more information on the activities of CIB TG55 at [www.cibworld.nl](http://www.cibworld.nl) Search under Databases/CIB Commissions. Click on Commissions and type TG55 in the search field.

For additional information about CIB TG55 and its future meetings, please contact TG55 Coordinator Jay Yang [j.yang@qut.edu.au](mailto:j.yang@qut.edu.au)