



International Council for Research and
Innovation in Building and Construction

W115 - "Construction Materials Stewardship"

Report on the third business meeting of
CIB Working Commission W115 "Construction Materials Stewardship
Enschede 2009

Sunday, 14 June 2009, 9:00 – 11:20

University of Twente, Enschede, The Netherlands

The third business meeting of the CIB W115 was held in conjunction with the CIB W115 2009 Conference on Lifecycle Design of Buildings, Systems and Materials, University of Twente, Enschede, The Netherlands, 12-15 June 2009.

The meeting was attended by participants from Canada, Germany, Japan, The Netherlands, Israel, New Zealand, Portugal, Turkey, the United States, United Kingdom, Venezuela, Singapore and Norway.

Meeting Attendees

- John Storey, Victoria University of Wellington, New Zealand (Coordinator)
- Abdol Chini, University of Florida, United States (Coordinator)
- Frank Schultmann, Universität Karlsruhe (TH) / Karlsruhe Institute of Technology, Germany (Coordinator)
- Wim Bakens, CIB Secretary General, The Netherlands (wim.bakens@cibworld.nl)
- Elma Durmisevic, University of Twente, The Netherlands
- Nicole Sunke, University of Siegen, Germany
- Mark Gorgolewski, Ryerson University, Canada
- Shiro Nakajima, Building Research Institute, Japan
- Carlos Suarez, Universidad Centroccidental Lisandro Alvarado, Venezuela
- Rogerio Amoeda, Green Lines Institute for Sustainable Development, Portugal
- Gil Peled, Eco-Challenges, Israel
- Gillian Hobbs, BRE, United Kingdom
- Kristin S. Wigum, Gaia Trondheim, Norway
- Anne Sigrid Nordby, NTNU, Norway
- Maarten Douwe Bredero, Architect, The Netherlands
- Birgul Yildir Technical University, Turkey
- Tjark van de Merwe, University of Twente, The Netherlands
- Stefan Binnemars, University of Twente, The Netherlands
- P.M. Beeker, University of Twente, The Netherlands
- Lilliana Abarca, TU Eindhoven, The Netherlands
- Edward Anggadaja, Building and Construction Authority (BCA), Singapore
- Yvonne Soh, Building and Construction Authority (BCA), Singapore
- Gary Ong, National University of Singapore, Singapore
- J.I.M. Halman, University of Twente, The Netherlands

Minutes of the Meeting

1. The coordinators of W115 welcomed the participants, especially the new members of W115, introduced the organizational structure of the commission and outlined the main objectives and the mission statement of the commission. They thanked Elma Durmisevic for her outstanding job in organizing the "CMS2009" conference, especially her efforts in bridging the gap between the theory and practice in the field of sustainable design and construction by involving the designers and constructors in the conference. The proceedings of the conference were distributed during the conference as the second publication of W115: "Lifecycle Design of Buildings, Systems and Materials" - CIB publication number 322. The agenda of the meeting was agreed on.
2. Wim Bakens, the CIB Secretary General provided a summary of the CIB activities related to sustainability and mentioned that sustainability is of the main focus of the CIB research activities. Currently, several CIB working commissions and task groups (e.g. procurement, design, and robotics) have focused their activities on sustainability issues. CIB will encourage these activities by holding regional conferences and satellite events which will culminate in the next Global Sustainable Building conference to be held in London in 2011.
3. Activities of the Commission's subgroups :
 - Subgroup 3: *Develop systems to mitigate and ultimately avoid construction material waste*
 Gilli Hobbs presented a report on waste reduction activities in UK (see attachment No. 1). She stated that her subgroup is planning to provide a publication evaluating wastage rate for a number of key building products widely used by the construction industry. She asked all national representatives to provide waste statistics for their countries by October 2009 to publish the report by December 2009. Gilli will send a list of data to be provided to all members by mid July 2009.
 - Subgroup 4: *Develop ways of using material wastes as raw materials for making construction materials*
 Shiro Nakajima presented activities on this subgroup in conjunction with an update of a country report in Japan (see attachment No. 2). His subgroup is planning to develop a list of barriers for deconstruction and reuse of materials and the best strategies to overcome these barriers. Shiro will coordinate with Gilli to include his questions into the survey Gilli is planning to send to all members. The goal is to publish this information in the same publication Gilli is planning to complete by December 2009.
 - Subgroup 5: *Develop methodologies for designing for closed loop materials use and for the effective recovery of materials and components from existing buildings*
 Rogerio Amoeda agreed to assist Charles Kibert in coordinating this subgroup.
 - Subgroup 6: *Develop design and construction methodologies for transformable and adaptable buildings and spaces to extend service life and so reduce overall construction material resource use*
 Elma Durmisevic summarized actions of subgroup 6 and its future plans. Her subgroup intends to publish a report on design aspects and construction

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methods for transformable and adaptable buildings before the next annual meeting. She will send an outline of the reports to the national representatives for their contributions in this publication.

- Abdol Chini reminded that membership in W115 subgroups is expanded to all W115 members. All members of W115 are encouraged to participate in every subgroup and to respond to the requests of the subgroup leaders.
4. John Storey reported that he is working on developing a list of best practices in CMS based on the first publication of W115 (CIB Publication 318). He will send a draft to all members by November 2009.
 5. Update of country reports were presented from
 - Japan (Shiro Nakajima)
 - UK (Gilli Hobbs)
 - New Zealand (John Storey)
 - Norway (Anne Sigrid Nordby).

Edward Anggadaja provided a report on the state of construction waste and recycling of construction materials in Singapore.

6. John Storey discussed the status of the questionnaire on tertiary education associated with construction materials stewardship. He will send the updated questionnaire with an introduction sheet on how to use it to all members before the fall semester starts.
7. It was agreed to expand the commission membership by proactively contacting key persons in several countries including India, France, Russia, Brazil, South Africa, South Korea, and Chile (Carlos Suarez). Every member of the commission is welcome to submit relevant information.
8. The location and time of the fourth CIB W115 annual meeting was discussed. For the location China was proposed. It is intended to contact Professor Peiyu Yan, Institute of Building Materials, Tsinghua University, who volunteered to host the meeting in Beijing to find a date in June-July, preferably in conjunction with another conference. No firm decision was made at this time.
The commission agreed to check the possibility of providing other meeting options like video conferencing for those members who cannot attend a meeting.
9. To develop cooperative working relationships with other CIB Task groups and working commissions that are active in the area of sustainable building and construction the following members were assigned as a CIBW115 liaison with these groups:
 - TG66 - Energy and the Built Environment - Andrew Miller
 - W104 - Open Building Implementation - Elma Durmisevic
 - W116 - Smart and Sustainable Built Environment - Frank Schultmann
10. Wim Bakens encouraged the commission to provide an update on their activities to be included in the CIB Newsletter. He also volunteered to contact the CIB members from the countries listed in item 8 above for finding an individual with interest in CMS to join W115 and to distribute the Educational Survey questionnaire to all CIB member universities. John Storey will send a copy of the questionnaire and covering letter to Wim at the same time that it is sent to members of the W115 commission.

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11. The commission's website will be transferred from the University of Siegen to the University of Karlsruhe. All members will be informed about the new URL of the website as soon as the new sites are established.

Karlsruhe/Siegen, 18 June 2009

Frank Schultmann
Nicole Sunke