



Report on the 8th business meeting of CIB Working Commission W115 "Construction Materials Stewardship" 2014

Tuesday, 28 September 2014, 8:30 – 10:30 AM (UTC + 1:00 Barcelona, Spain)

The eighth business meeting of the CIB W115 was held in conjunction with the World Sustainable Buildings Conference (WSB14) in Barcelona.

The meeting was attended by participants from the United States, Germany, Austria, Norway, the Netherlands, Sweden, Canada and Singapore. Participants from Israel, UK, New Zealand, and Portugal joined the meeting by videoconference.

Meeting Attendees

Surname	Name	Affiliation	Country	Email
Chini (Coordinator)	Abdol	University of Florida	United States	chini@ufl.edu
Schultmann (Coordinator)	Frank	Karlsruhe Institute of Technology (KIT)	Germany	frank.schultmann@kit.edu
Storey (Coordinator)	John	Victoria University of Wellington	New Zealand	john.storey@vodafone.co.nz
Kibert	Charles	University of Florida	United States	ckibert@ufl.edu
Russell	Mark	University of New Mexico	United States	russ1307@unm.edu
Stengel	Julian	Karlsruhe Institute of Technology (KIT)	Germany	julian.stengel@kit.edu
Wallbaum	Holger	Chalmers University of Technology	Sweden	holger.wallbaum@chalmers.se
Passer	Alexander	Building Research Institute	Austria	alexander.passer@tugraz.at
Bohne	Rolf	Norwegian University of Science and Technology	Norway	rolf.bohne@ntnu.no
Bakens	Wim	CIB	Netherlands	wim.bakens@cibworld.nl
Mark	Gorgolewski	Ryerson University	Canada	mgoro@ryerson.ca

Surname	Name	Affiliation	Country	Email
Neng	Jeffery	Building and Construction Authority	Singapore	jeffery_neng@bca.gov.sg
Giau Leong	Low	Building and Construction Authority	Singapore	LOW_Giau_Leong@bca.gov.sg
Bradley	Guy	The Catholic University of America	United States	guy_brad@yahoo.com
Hobbs	Gilli	Building Research Establishment	United Kingdom	hobbsG@bre.co.uk
de Brito	Jorge	University of Lisbon	Portugal	jb@civil.ist.utl.pt
Silvestre	Jose Dinis	University of Lisbon	Portugal	jose.silvestre@ist.utl.pt
Peled	Gil	ECO-Challenges	Israel	g-peled@hotmail.com

Minutes of the Meeting

Item 1: Welcome and Introduction:

Abdol Chini, Frank Schultmann and John Storey welcomed the participants and the participants introduced themselves.

Item 2: Research Roadmap

John Storey reported about the roadmap process initiated by CIB. All Working Commissions are required to develop a Research Roadmap by 2016 defining a 3/4 year research programme and a 10 year research projection. In the case of W115 this is due at the middle of 2015.

The roadmap consists of 6 sections:

- 1 Conceptual Framework
- 2 State of the Art
- 3 Future Scenario
- 4 Development Strategy
- 5 Research Contribution
- 6 Research Agenda

The following volunteers agreed to serve as leader or member of the sections:

1 Conceptual Framework:

Leader: Charles Kibert

Member: Abdol Chini, Jeffery Neng (BCA), Mark Russell

2 State of the Art:

Leader: Frank Schultmann

Member: Mark Gorgolewski, Gil Peled, Jose Dinis Silvestre

3 Future Scenario:

Leader: Gilli Hobbs

Member: Holger Wallbaum, Gil Peled, Jeffery Neng (BCA), Rolf Bohne

4 Development Strategy:

Leader: Brad Guy

Member: Mark Russell, Gilli Hobbs, Mark Gorgolewski

5 Research Contribution & 6 Research Agenda:

Leader: Abdol Chini

Member: Holger Wallbaum Jose Denis Silvestre, Brad Guy, John Storey

It was noted that a timeline was needed to make sure that the subsequent sections are prepared in the right order. It was agreed that sections 1-3 could start immediately and that section 4-6 could start later.

Wim Bakens advised to have a public event like a webinar or an online conference to get relevant stakeholders involved in the roadmap process.

It is envisaged to have a final draft of the roadmap by June/July 2015 and to present and discuss this draft on the aforementioned webinar or online conference. The final version of the roadmap should be introduced on the CIB world conference in May/June 2016.

Item 3: Research Programme

Disadvantages and advantages of a single objective each year and work on multiple concurrent topics over a longer timescale have been discussed. Furthermore, possible solutions have been discussed, amongst them small single objective reports, collection of essays/papers, innovation reports (incl. innovation and application section) and different briefing notes for different stakeholders.

It was stated that W115 identifies research needs and does not necessarily perform research in all the identified problems. It was stated that the submission of an EU-Proposal with Gilli Hobbs and Frank Schultmann in the past was not successful. In order to enable original research, a more aggressive consortium building via the W115-commission could be aimed at.

Item 4: Other issues arising from the July 2014 questionnaire

a) Life Cycle Analysis (LCA)

Charles Kibert shortly summarized his doubts in current LCA use (landfilling/recycling, uncertainties, aggregation of high margin of errors, resource stocks are not considered adequately → perhaps project idea). He said that saving resources should be the first priority from his point of view. The way LCA is currently used is questionable. It was agreed by the commission that LCA is a tool rather than an objective and that it can contribute to the goals of W115. Furthermore, Wim Bakens suggested that strengths and weaknesses of using LCA in evaluating end of life options could be discussed via a webinar. It was also suggested that LCA should be combined with other topics such as Supply Chain Management, resource indicators, carbon footprinting, ecological footprinting, and others. Furthermore, W115 should collaborate with other CIB working commissions active in use of LCA in their analysis. It was noted that attention has to be paid on the accuracy of data used, the soundness and limitation of assumptions made, and the results of LCA analysis carefully evaluated. In addition it is noted that the social aspects of LCA is still underdeveloped.

b) Modification of Objectives and Wording of Existing Objectives of W115

It was agreed to revise the list of objectives of W115. The revised objectives are:

Develop methods, strategies and initiatives to promote:

- Effective use of new and existing construction materials
- Utilization of sustainable materials
- Regeneration of the construction material resource base
- Use of waste to make construction materials
- Building, component and material reuse
- Minimisation of construction waste
- Deconstruction and design for deconstruction
- Design and utilization of transformable and adaptable buildings
- Renovation and adaptable reuse of existing buildings
- Use of life cycle costing and management for CMS
- Collection of evidence to support policy and regulatory development for CMS

Wim Bakens noted that “adaptable reuse” is different than the other objectives and has an overlap with the “open building commission” (W104). This could enable a future collaboration.

Item 5: Future Meetings

- 2015:
 - A W115 business meeting will be held as a video conference. Wim Bakens offered to organize this event by the CIB secretariat.
 - A further webinar as part of the roadmap development process will be planned in 2015.
- 2016:
 - The business meeting will take place in conjunction with the CIB World Building Congress in Tampere, Finland, May 30 – June 3. In addition, the research roadmap will be presented in a workshop and a separate paper session will be planned.

Item 6: Expanding membership

W115 has 27 members from 17 countries, but some are inactive. The commission is seeking to expand its membership by 5 to 10 more members, in particular from countries like Australia, Brazil, Chile, China, France, Russia, South Korea and Spain.

Holger Wallbaum named an interested member from South Korea (Prof. Thorsten Schütze) and a possible member from Australia (Keith Hampson). Furthermore, Alexander Posser is considering becoming a member.

Wim Bakens mentioned CIB has regional offices in South America and Asia that can provide contacts to interested parties.

Item 7: Additional items

- None -

Item 8: Adjourn

- None -

Abdol Chini, John Storey and Frank Schultmann thanked the commission members for their meeting attendance.

Karlsruhe, 26 November 2014
Frank Schultmann
Julian Stengel