



## 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.

February 2007

### Around the Task Groups and Working Commissions

#### W115 – Construction Materials Stewardship

### Introducing a New Working Commission

During its meeting in September 2006 in Atlanta, USA the CIB Programme Committee established a new Working Commission W115 on Construction Materials Stewardship and appointed Prof. Dr. Abdol R Chini, University of Florida, USA, Assoc. Prof. John B Storey, Victoria University of Wellington, New Zealand, Prof. Dr. Frank Schultmann, University of Siegen, Germany as its Coordinators.

#### Objectives and Scopes

This Commission aims to:

- drastically reduce the deployment and consumption of new non-renewable construction materials, to replace non-renewable materials with renewable ones whenever possible, to achieve equilibrium in the demand and supply of renewable materials and ultimately to restore the renewable resource base
- carry out these tasks in ways to maximize positive financial, social and environmental and ecological sustainability effects, impacts and outcomes.

Against this background the Commission's Objectives are to:

- determine ways to utilise new and existing construction materials in the most effective and ecologically, environmentally, socially and economic manner possible
- develop life cycle costing and management mechanisms for materials
- develop systems to mitigate and ultimately avoid construction material waste
- develop ways of using material wastes as raw material for making construction materials
- develop methodologies for designing transformable and adaptable buildings and spaces to extend service life and so reduce overall construction material resource use
- establish strategies to promote whole buildings, components and materials re-use
- establish ways to regenerate the renewable material resource base and improve the

performance, availability and use of renewable construction materials

- establish methods and strategies to enhance utilisation of used construction materials
- establish what the barriers are to the sustainable use of building materials and devise methodologies to overcome those barriers
- develop information and research outcomes that will contribute to and facilitate the establishment of policy and regulatory standards, initiatives and options aimed at reducing new materials deployment and consumption
- develop the necessary techniques and tools to support the foregoing objectives.

#### Current Work Programme

For the very first period after the official establishment of this Commission its programme objective concern:

- expanding the commission membership base
- developing cooperative and synergetic working relationships with other CIB Task Groups and Working Commissions that are active in the area of Sustainable Building and Construction
- developing and agreeing a set of detailed objectives and establishing a priority roadmap for achieving these objectives, taking into account work already covered by other CIB Task Groups and Working Commissions.
- a first programme objective in support of this is to develop a Commission Database containing:
- all accessible literature with accompanying literature reviews on (aspects of) Construction Materials Stewardship
- information on relevant initiatives, interventions and programmes in member countries.

#### Internal Structure

Within the Commission a series of Specialists Groups will be established that will carry out a coherent programme or research, which will fit into an overall programme matrix (roadmap). Each of these Specialist

Groups will be supported by, report to and obtain feedback from the Commission as a whole. Every opportunity will be taken to establish and develop synergies with other CIB Task Groups and Working Commissions.

### Future Meetings

- Commission meeting on Construction Materials Stewardship, in conjunction with the CIB Co-sponsored: SB07 Lisbon - Sustainable Construction, Materials and Practices: Challenge of the Industry for the New Millennium, 12-14 September 2007.
- Commission meeting on Construction Materials Stewardship, in conjunction with the CIB Co-sponsored: World SB08 Melbourne - World Sustainable Building Conference, 21-25 September 2008

## Introducing the W115 Coordinators



Prof. Dr. Abdol Chini

Abdol Chini is currently a professor of Building Construction and Director of M.E. Rinker, Sr. School of Building Construction at the University of Florida. He received his Ph.D. in Structural Engineering in 1986 from the University of Maryland at College Park. Abdol has performed extensive research on the reuse and recycling of construction materials including recycled concrete aggregates, wastewater generated at concrete plants, and salvaged lumber from deconstructed buildings to minimize environmental impacts. Prof. Chini is a registered professional engineer and his work experience includes quality control manager and project manager for several construction projects in Washington DC metropolitan area. Abdol was the Coordinator of Task Group 39 (Deconstruction) of the International Council for Research and Innovation in Building Construction (CIB). Prof. Chini has edited three books and published more than 80 papers. He was listed in Who's Who in Science and Engineering in 2000/2001 and was the recipient of the 2003 UF Research Foundation Professorship.



Prof. John Storey

John Storey is Associate Professor and Reader in Sustainable Architecture at Victoria University of Wellington School of Architecture in New Zealand. John was the New Zealand national coordinator for Task Group 39 (Deconstruction). He continues to work to promote the adoption of resource effectiveness, resource recovery and deconstruction principles, both nationally and internationally, through advice to government agencies and industry and through research and practice. He is an architect, has practiced in the UK, Finland, Hong Kong and New Zealand, and has gained a number of national and international design awards and is the principal of an architectural practice that specialises in designing and advising on sustainable architecture and environmental design and construction. He was Deputy Dean of VUW's Faculty of Architecture and Design 2002-2005 and Acting Dean in 2003.

A/Prof. Storey was Technical Advisor to The NZ Parliamentary Select Committee on Weather tightness in Buildings, which precipitated major revisions to the New Zealand Building Code. He was also a member of the New Zealand Building Reference Group which advised the New Zealand Government on the introduction of sustainable development into the NZ Building Act (2004) and is currently a member of the NZ Department of Building and Housing Working Group developing performance standards and criteria for the resource conservation and efficiency sections of the new NZ Building Code. He is a member of the NZ Green Building Council Technical Committee, the Victoria University of Wellington Environment Committee, the VUW ESD Team and the VUW Campus Planning Group. He is consulted by a wide variety of central and local government and industry organisations on sustainability related design and construction matters. A/Professor Storey is the author of more than 70 reports, articles and conference publications as well as numerous invited presentations and lectures on aspects of sustainability. His extensive contract and personal research is entirely focused on sustainable design and construction.



Prof. Dr. Frank Schultmann

Frank Schultmann is a full professor and holds the Chair of Business Administration, Construction Management and Economics, Faculty of Civil Engineering, at the University of Siegen. He studied Business Engineering at the University of Karlsruhe and was research assistant and head of two research groups at Institute for Industrial Production and the French-German Institute for Environmental Research at the University of Karlsruhe. He completed his doctoral thesis (1998) at the Faculty of Economics and Business Engineering and his habilitation (2003) receiving the *venia legendi* (teaching authority) in Management Science. In 2003, he was appointed to the position of an associate professor at the University of Karlsruhe. In 2003, he was offered a professorship of Business Administration at the University of Bremen. In 2004 he was appointed to the professorship of Industrial Management at the University of Koblenz-Landau, where he was head of the Department "Industry, Production and Logistics". In 2004 he was appointed to his present position.

He has been awarded several scientific awards and a large number of research grants. He has conducted more than 40 research projects. He is a member of several scientific organisations, member of the editorial boards and several scientific commissions. His list of publications includes 6 monographs, 4 editorships and more than 130 scientific articles.

### Additional Information

For additional information about the CIB W115 meetings please contact the Coordinators:

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You can find more information on the activities of CIB W115 at [www.cibworld.nl/website](http://www.cibworld.nl/website) - section "Databases" - database "Commissions" - type W115 in the search field "Commission number".