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.

March 2006

Forthcoming Meeting / CIB Co-Sponsored

Final Invitation

European Symposium on Service Life and Serviceability of Concrete Structures – ESCS 2006

Service life 50 years.. *100 years..* *100,000 years*

12 - 14 June 2006, Espoo, Finland

About the Conference

Building and civil engineering is an important forum in realisation of sustainability in our societies. Typically the design service life of structures lies between 50 years and 100, sometimes even several hundreds of years. The final survival life of buildings and civil infrastructures is generally several hundreds of years; especially this is the case in Europe, where the built environment as a cultural heritage is highly respected. This is the reason why durability and serviceability are especially challenging for building and civil engineering practice. The lifetime-oriented design and management processes are aimed to balance the objectives of long durability and serviceability in as cost-effective manner as possible. This will facilitate the change of the design as well as of the facility maintenance and management from a reactive approach into a predictive approach. Service life and serviceability of concrete structures are key issues in predictive and optimising design and management of buildings and civil infrastructures.

There are intensive research and development works going on in this area. In addition, the European and global standards are under development to include increasingly service life, durability and serviceability aspects. Extensive development has also been directed on developing maintenance, repair and rehabilitation concepts, technologies and products for optimised increase of service life and serviceability.

It is now time to present a focused picture of the current state and future trends in this issue, including theory, practice and education. The methodology and methods of durability and serviceability design have to be applied into norms and standards. Major use of these results might also be in the education, training

and general development of expertise of building and civil engineers and architects.

The aim of this symposium is to provide participants with updated knowledge on current theories and practices in this field of the symposium. The reports consist of specific and detailed results of analysis and modelling of degradation, service life and serviceability, but also more broad and integrated methodologies and visions of predictive and optimising service life design and management. This will be concretised with invited keynote lectures, selected oral presentations, posters on research and practice, and discussions during sessions.

The scope of the symposium includes concrete buildings, as well as industrial and civil infrastructures. All issues mentioned above will be addressed in the sessions and reports.

The invitation to ESCS-2006 Symposium has produced a great response: we have got totally 88 abstracts, of which 81 have been selected for full papers into the Symposium proceedings. These will be presented in the symposium as oral reports or some posters, followed with discussions between all participants.

It is the wish of organisers that we, in co-operation with all participants, can establish a creative and interactive atmosphere in the sessions, breaks and social events of the symposium, thus following the traditional ideas of symposia.

Asko Sarja
Professor, Dr.
Chairman of the Scientific Committee

Klaus Söderlund Managing Director
Concrete Association of Finland

Topics

The symposium topics cover a range of themes, including:

- Service life planning of structural systems in buildings, industrial and civil infrastructures: methodologies, optimisation methods, standards, guidelines
- Durability design of concrete structures: principles, methodologies, methods, standards and guidelines
- Quantification and classification of degrading loads onto structures
- Degradation mechanisms and models of structures under different degrading loads
- Lifetime quality and criteria for service life, durability limit states and reliability of structures against degradation
- Long term strategies and planning of MR&R (Maintenance, Repair and Rehabilitation) actions for lifetime engineering
- Life Cycle (Working Life) costs in relation to durability and MR&R programs
- Innovative preventive MR&R technologies, concepts, methods and products
- Service life issues in education and training

Venue

The Symposium will be held at Hanasaari, the Swedish-Finnish Cultural Centre, Espoo, Finland.

Additional Information

For additional info on Registration, Scientific Commission, etc. please download the conference brochure from here.

Contact Details

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