

TG22/RILEM TC-EDM - Environmental Design Methods in Materials and Structural Engineering



This is a joint Group with RILEM and so it was very appropriate that the Task Group's first meeting should be held in conjunction with its environmental TCs of RILEM.

These are:

- Environmental Criteria for Building Products
- Environmental Design Methods in Materials and Structural Engineering
- Systematics of the Environmental Impact Database of Building Materials

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Participants at the first meeting of TG22.

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This is a Joint Group with RILEM whose Secretary General Michel Brusin took the opportunity to acquaint delegates with the way of working and general set-up of the organisation. CIB Deputy Secretary General Chris Pollington reciprocated.

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The Joint Meetings themselves took place in Domaine Saint-Paul, Saint-Rémy-lès-Chevreuse, a pleasant location near Paris and well-known to RILEM and CIB Members.

The productive outcome to this first meeting particularly in formulating future plans owed much to the effective leadership shown by the Chairman Professor Asko Sarja.

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There were two delegates from Japan. Toshio Fukushima (above) presented a paper on Ecomaterials Design of Structural Composite Materials and Components.

He will be responsible for the Chapter in the Guide on Applications into Building and Bridge Design.

The meetings took place in the spacious premises at Saint-Rémy-lès-Chevreuse near Paris, where RILEM usually hold their meetings in France.

Thanks to the effective Chairmanship of Professor A. Sarja a Work Programme and Task List, for which responsibilities were assigned, was agreed as follows:

- Establishing terms and definitions
- Scheduling the framework of integral structural design and its procedures
- Systematising the procedures of the environmental structural design in different phases of design
- Defining the environmental parameters of the structures during the entire service life
- Defining the indices of the environmental efficiency of structures and structural systems
- Defining the methods for the assessment of the recycling and reuse on different hierarchical levels (building, structural system, modules, components, materials)
- Defining the systematics for the analysis of the environmental profiles and environmental efficiency of alternative structural systems and their solutions
- Defining the methods and procedure of the environmental optimisation as a part of the multiple requirements optimisation and selection of the structural solutions
- Example of applications into some building and bridge structures
- Collection of a guide for environmental structural design

It is planned to publish the results of the activities of TG22 in various media including:

- Guide for Environmental Structural Design
- Symposium Reports and Articles
- Articles in CIB and RILEM
- Internal Reports CIB/RILEM
- Articles of TC members in their own countries and international
- Information on Internet and World-Wide-Web

The meeting also drew up a schedule comprising 2 conferences and 5 meetings over the ensuing three year period.

The first of the two conferences will be in conjunction with the CIB Congress in Gävle, Sweden next year.

The Task Group itself has since met again on 12th and 13th June 1997.