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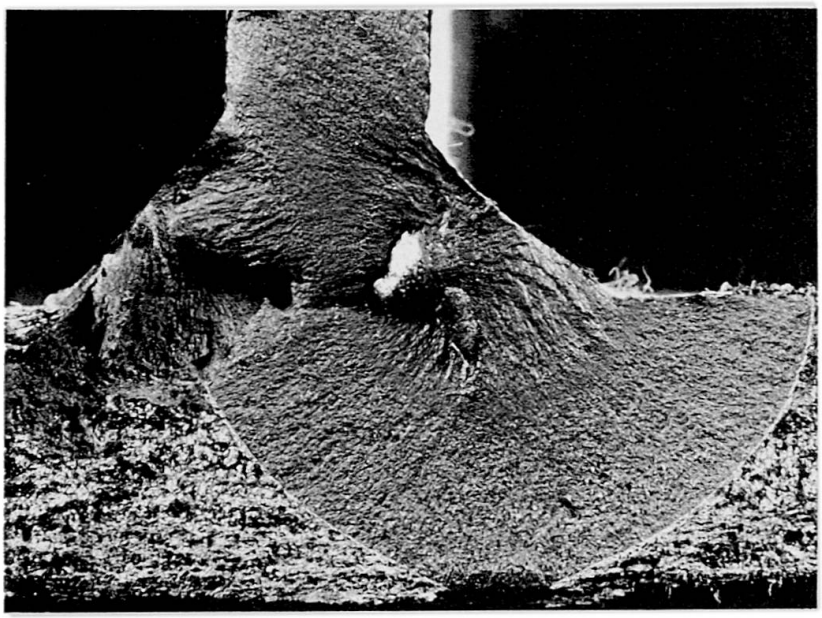

4. Fatigue of steel and concrete structures Lausanne, Switzerland, March 24-26, 1982

The IABSE Colloquium which is cosponsored by ASCE, CEB, ECCS and RILEM will be held from Wednesday to Friday, March 24-26, 1982 at the Swiss Federal Institute of Technology, Lausanne, Switzerland.

Motivation and objectives

Many countries are in the process of preparing national specifications for the design of fatigue loaded structures. Much basic information is available on the fatigue strength of structural elements and is often used in a similar way by specification writing bodies. However, little information on the load assumptions for bridges, cranes and other fatigue loaded structures is available. In addition, unified fatigue design concepts using modern methods to define fatigue life expectancy are rarely used or differ widely. International organizations have started to act in order to harmonize the various national efforts.

During the past decade an impressive amount of research has thus been conducted in the development of new technology to design, construct and maintain steel and concrete structures. Much has been learned about these complex problems and should be conveyed to a user community that represents varied interests such as governments, transportation agencies, consulting engineering firms, industry, universities and specification writing bodies. Much remains to be learned, and the same user community should be involved in guiding future work in the field of structural fatigue.

The main objective of the 1982 IABSE Fatigue Colloquium is to facilitate an interchange of information on all aspects of design and maintenance of fatigue loaded structures of specific interest to design engineers. The colloquium will cover the fields of research, development, and practice and their applications to administrative decision making in design, construction and maintenance.

Technical sessions

The following topics will be handled in technical sessions which in some cases will be run concurrently:

- Fatigue Design Concepts for Aluminium, Concrete and Steel Structures
  Fatigue Design Codes
- Fatigue Behaviour of Steel and Steel Elements
- Fatigue Behaviour of Plain Concrete, Reinforcing Bars and Concrete Elements
- Fatigue Behaviour of Bolts and Rivets, Bolted, Riveted Connections and Welded Connections
  Fatigue Behaviour of Prestressing Wires and Strands
  Fatigue Behaviour of Composite Structures
  Fatigue Behaviour of Aluminium and Aluminium Elements
- Case Studies of Bridges, Cranes and Special Civil Engineering Structures
- Measured Loads and Load Models for Fatigue Calculations

Papers

Based on abstracts submitted before Spring 1981, a choice has been made by the Scientific Committee. Ninety authors were invited to prepare papers to be presented and discussed at the Colloquium. The papers will be published in the PROCEEDINGS of the Colloquium which will be available to the participants on the first day of the Colloquium and subsequently to all interested persons through the IABSE Secretariat.

Final invitation

The Final Invitation has been published in August 1981 and was mailed to all IABSE members and interested persons.
It can be ordered also at the following address

IABSE Fatigue Colloquium
EPFL-ICOM
GCB (Ecublens)
CH-1015 Lausanne, Switzerland