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## Structural Concrete

IABSE Colloquium, Stuttgart, Germany, April 10 – 12, 1991

### Introduction

As we enter the second century of reinforced concrete history, it is a most appropriate time to move towards the unification of design approaches for all forms of reinforced concrete and prestressed concrete under the general heading «Structural Concrete». It is envisaged that the term «structural concrete» denotes any application of concrete in a structure or structural element in which the concrete works structurally. Thus, structural concrete represents a continuous spectrum for simple non-reinforced applications through the most involved combinations of concrete with steel reinforcement. This reinforcement can be ordinary reinforcement, prestressing steel or structural steel elements as used in composite members.

«Structural Concrete» will reflect a new maturity regarding concrete design practice.

The objectives of this Colloquium are:

- to unify reinforced concrete and prestressed concrete design under the overall «Structural Concrete» approach
- to redirect the engineer's focus to overall structural behaviour and flow of forces
- to encourage the unification of codes and standards for non-prestressed and prestressed concrete into single documents with a consistent approach
- to stimulate open discussion of these issues.

### Technical Programme

Each session starts with invited lectures, continues with the presentation of selected papers and provides sufficient time for a discussion open to all participants.

#### *Theme 1: Structural Concrete*

J. E. Breen, Austin, TX, USA

A. S. G. Bruggeling, Nootdorp, Netherlands

#### *Theme 2: Consistent Models for Design, Analysis and Detailing*

##### *Sub-Theme 2.1: Performance Requirements*

M. Wicke, Innsbruck, Austria

H. Trost, Aachen, Germany

##### *Sub-Theme 2.2: Modelling of Structural Concrete*

J. Schaich, Stuttgart, Germany

T. P. Tassios, Athens, Greece

J. Eibl, Karlsruhe, Germany

##### *Sub-Theme 2.3: Analysis*

A. Scordelis, Berkeley, CA, USA

M. Menegotto, Rome, Italy

##### *Sub-Theme 2.4: Dimensioning and Detailing*

J. G. Mac Gregor, Edmonton, AB, Canada

P. Marti, Zurich, Switzerland

##### *Sub-Theme 2.5: Reliance upon Concrete Tensile Strength*

A. Hillerborg, Lund, Sweden

G. König, Darmstadt, Germany

T. Tanabe, Nagoya, Japan

##### *Theme 3: Implementation in Codes of Practice*

R. Walther, Lausanne, Switzerland

T. P. Tassios, Athens, Greece

##### *Theme 4: Impact on Future Structures*

C. Menn, Zurich, Switzerland

D. Vandepitte, Gent, Belgium

M. Virlogeux, Bagneux, France

The **Colloquium Report** containing all invited and accepted papers will be distributed to all participants at the beginning of the Colloquium.

### Technical Excursion

A technical excursion is scheduled on Saturday 13, April, 1991, from 09.00 till 16.00 h including

- visit to the testing laboratories, University of Stuttgart (Otto-Graf-Institute)
- lunch
- visit to interesting bridge sites and to architectural and technically attractive buildings in Stuttgart.

### Location and Date

The Colloquium will take place at the University of Stuttgart, Germany, from April 10 to 12, 1991.

### Language

The official language at the Colloquium will be English.

### Participants

The Colloquium is proposed for civil and structural engineers and all others concerned with Design, Analysis, Detailing, Codes, Education, Research and Development of Structural Concrete.

### Information/Registration

All enquiries concerning Registration, the Technical Excursion and the Programme for Accompanying Persons should be addressed not later than 31 January 1991 to:

IABSE Colloquium, Stuttgart 1991

Organizing Committee

Institut für Tragwerksentwurf und -konstruktion

(Institute for Structural Design)

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