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## Preface

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 from 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 introduce rational, transparent models to improve detailing
- 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 on these issues.

This Colloquium Report contains the Invited Lectures and papers which reflect these objectives under the different themes and subthemes. All authors, and especially the Invited Lecturers, deserve our sincere thanks for their great efforts to present their ideas and contribute to this Colloquium.

Thanks also go to the members of the Scientific Committee for planning the Colloquium, for developing the Invitations and for selecting the papers.

Last but not least, our appreciation to the Organizing Committee and the IABSE Secretariat for compiling this report.

Stuttgart, March 1991

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