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## FOREWORD

The first suggestion for the Seminar came from Prof. G. Winter (Cornell University) at the IABSE Congress held in New York in 1968.

At the Prague meeting (1971) Prof. G. Wästlund, President of Working Commission III, confirmed Prof. G. Oberti with the organization of the Seminar. During the Amsterdam Congress (May 1972) the Permanent Committee gave the official approval.

The purpose of the Seminar was to bring together engineers and scientists interested, from both a designing and constructional viewpoint, in the analysis and study of the statical and dynamic behaviour of plain and reinforced concrete (prestressed or not) subjected primarily to triaxial stresses, possibly associated with thermal effects.

Consideration has been given to contributions presenting methods applicable to structural analysis, both of calculation (finite element method, dynamic relaxation, etc.) and experimentation (structural models, suitable instrumentation, and so on). Comparisons between different research procedures and, possibly, with results obtained directly on full-scale structures were appreciated.

Two kinds of contributions were planned:

- the first one consisted in a report on the studies conducted and techniques used in one's country for one or more types of structures (national reports prepared by selected authors for each country);
- the second one was a report on a particular investigation carried out (personal contributions).

The Seminar was restricted to a limited number of specialists and research men who were actively engaged in the related field.

Place of the Seminar: Congress Hall of ISMES (Istituto Sperimentale Modelli e Strutture) - Viale Giulio Cesare, 29 - 24100 Bergamo, Italy

Sponsor: Commission III of IABSE

Languages: English, French and German. Simultaneous translation was provided.

### Organizing Committee:

Chairman: Prof. Ing. G. Oberti, President of ISMES

Vice-Chairman Prof. Ing. E. Fumagalli, ISMES Director

Members: Prof. Ing. A. Marazio, ENEL-DSR

Dr. Ing. G. Tognon, ITALCEMENTI

Secretary Dr. G. F. Camponuovo, ISMES

The Seminar was divided into four Working Sessions:

SESSION I            Friday, May 17th                            9.00 h - 12.00 h

Topic: National Reports

Reports presented: 9

SESSION II           Friday, May 17th                            14.30 h - 17.30 h

Topic: Prestressed Concrete Pressure Vessels

Reports presented: 10

SESSION III           Saturday, May 18th                            9.00 h - 12.00 h

Topic: Personal Reports on General Subjects

Reports presented: 8

SESSION IV           Saturday, May 18th                            14.30 h - 17.30 h

Topic: Deep Arch-Gravity Dams

Reports presented: 9

Each Session was chaired by a Chairman and a Co-Chairman who were assisted by a Technical Secretary for the Session. There was no General Reporter.

In the first part of the Sessions each author had 5-10 minutes to complete or bring his paper up to date. The second part of the Sessions was devoted to the discussion. It was also possible to present a short communication on the topics of the Seminar, without reference to a specific paper.

The present volume reproduces:

- the 36 reports presented
- an account of the free discussion during the Sessions.

The reports had been distributed to the participants about two months before the Seminar, as Preprints.

The free discussion have been edited on the basis of the tape recording and notes taken during the Sessions. All Delegates were given the opportunity of editing their own contribution prior to the final co-ordinating and editing by the Organizing Committee.