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## FOREWORD

The purpose of the Seminar was to gather updated information on practical and technical aspects of construction in seismic areas. Consideration has been given mainly to contribution dealing with design criteria and construction methods, as well as with comparison between analytical results or testing. The repair techniques as well as the reconstruction methods have been regarded as meriting special attention.

Principal goals of the Seminar were therefore:

- to collect data on recent developments in design criteria and construction methods;
- to examine the effectiveness of repairing or reconstruction techniques and practice;
- to discuss methods for the checking and surveillance, and proposals for possible improvement of the seismic efficiency of large structures.

These subjects have been examined mainly in the light of practical examples taken from recent earthquake experience. For this reason, a visit has been made to the Friuli region hit by the 1976 earthquake, with the scope of inspecting the work done for reparation and reconstruction of civil and industrial structures.

The Seminar was organized by IABSE and ISMES with the cooperation of the Italian Delegation of IABSE, the International Center for Mechanical Sciences, CISM, and the Italian Association for Earthquake Engineering, AIDIS.

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

Language: English.

Organizing Committee:

Chairman: Prof. Ing. Guido Oberti,  
President, ISMES  
President Italian Committee, IABSE

Vice-Chairman: Dr. A. Castoldi  
Director Dynamic Department, ISMES

Members: Dr. L. Broili  
Consultant Geologist  
  
Mr. A. Golay  
Executive Director, IABSE  
  
Prof. G. Grandori  
President EAEE

Prof. A. Marazio  
ENEL/DSR

Prof. L. Sobrero  
President, CISM

Secretary: Dr. M. Casirati  
Dynamic Department, ISMES

The Seminar was divided into four Working Sessions:

1st SESSION                      Wednesday, May 10th, 1978                      9.00 - 12.30 a.m.

"Design Criteria For Structures in Seismic Zones"

Papers presented: 10

2ns SESSION                      Wednesday, May 10th, 1978                      2.30 - 6.00 p.m.

"Repairs and Reconstruction of the Structures"

Papers presented: 6

3rd SESSION                      Thursday, May 11th, 1978                      9.00 - 12.30 a.m.

"Effects of Recent Earhtquakes"

Papers presented: 10

4th SESSION                      Thursday, May 11th, 1978                      2.30 - 6.00 p.m.

"Seismic Efficiency of Large Structures. (Recommendations, Checking and Surveillance)"

Papers presented: 8

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.

Each other had 10 - 15 minutes to complete or to bring his paper up to date; the presentation of each paper was followed by discussion.

It was also possible to present short Communications on the topics of the Seminar, without reference to a specific paper.

The present volume reproduces:

- the 34 reports presented
- the 8 short communications presented
- the transcription of the discussion during the Sessions.

The reports had been distributed to the participants about a month before the Seminar, as Preprints.

The discussion has been edited on the basis of the tape recording taken

during the Sessions. All participants were given the opportunity for editing their own contribution prior to the final co-ordinating and editing by the Organizing Committee.

The Organizing Committee wishes to extend its thanks to all authors and participants to the Seminar. Grateful thanks are due also to the firms of Snaidero of Maiano (Udine) and Fantoni of Rivoli di Osoppo (Udine), as well as to the Comune di Cividale del Friuli, without whose kind courtesy and hospitality the visit to the restoration sites would not have been possible.

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