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About the Workshop

The participation in the Colloquium was restricted to a limited number of specialists and researchers who were engaged in the related fields.

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

Language: The Colloquium (i.e. presentation of papers, discussions, etc.) was conducted in English.

Organization: IABSE and its Working Commission VI "Informatics in Structural Engineering", in cooperation and with the support of ISMES (Experimental Institute for Models and Structures), organized the Colloquium in Bergamo. Two Committees had their tasks appointed for the selection of papers and the organization, respectively:

Scientific Committee:
(Alphabetic order of Members)

Chairman: M. Fanelli (Italy)
Members: E. Anderheggen (Switzerland)
J. Blaauwendraad (The Netherlands)
A. Cusens (United Kingdom)
G. Deprez (Belgium)
B.A. Szabo (U.S.A.)
H. Werner (Federal Republic of Germany)

Organizing Committee:
(Alphabetic order of Members)

Chairman: R. Riccioni (Italy)
Members: E. Anderheggen (Switzerland)
M. Fanelli (Italy)
A. Peano (Italy)
H. Werner (Federal Republic of Germany)

Honorary President: Prof. Bruno Thürlimann was the Honorary President of the Colloquium.

Working Sessions: The Seminar was divided into five Working Sessions according to the four Themes of the Colloquium (Theme 1 had two Sessions).



SESSION I

Wednesday, October 6th

9.00 h. - 12.30 h.
14.30 h. - 17.00 h.

Topic: **New Applications of Informatics in the Construction Industry**

Reports Presented: 7

SESSION II

Wednesday, October 6th

17.00 h. - 18.30 h.

Thursday, October 7th

8.30 h. - 12.30 h.

Topic: **New Applications of Informatics in the Construction Industry**

Reports Presented: 6

SESSION III

Thursday, October 7th

14.30 h. - 18.30 h.

Topic: **Impact of New Hardware and Software Technology**

Reports Presented: 8

SESSION IV

Friday, October 8th

8.30 h. - 10.30 h.

Topic: **Technical and Legal Responsibility Associated with Structural Computations. Quality Assurance Procedures.**

Reports Presented: 3

SESSION V

Friday, October 8th

10.30 h. - 13.30 h.

Topic: **Education and Computer Based Structural Analysis and Design.**

Reports Presented: 5

Each Working Session was chaired by a Chairman chosen among the Participants. Two types of papers have been accepted: "Invited Papers" and "Contributed Papers".

The Authors of "Invited Papers" had from 15 to max. 30 minutes to show and comment their reports. The Authors of "Contributed papers" were allowed to briefly comment their reports (5 minutes) during the Discussion concerning the related Sessions.

All Speakers were kindly requested to avoid merely reading their papers and to bring some new information.

Free Discussion was held after each Working Session.



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Opening Speeches

Ing. Roberto RICCIONI

Ladies and Gentlemen,

on behalf of Dr. Dolcetta (President) and Prof. Marazio (Managing Director) of ISMES, I am really pleased to welcome you to this second International IABSE Colloquium on "Informatics in Structural Engineering", which follows the first one, held here in 1978.

This Conference gives again to our Institute the unique opportunity of meeting a selected group of Scientists and Experts in the field of Informatics and Structural Engineering.

I thank you for the highly qualified contributes and I wish also to express the gratitude of the IABSE Working Commission VI, chaired by Prof. Fanelli.

To open the Colloquium, I am now honoured to introduce Prof. Guido Oberti (Honorary President of ISMES and Chairman of the Italian Group of IABSE) and Prof. Bruno Thürlimann (President of the International Association for Bridge and Structural Engineering).

Prof. Guido OBERTI

Ladies and Gentlemen,

I feel honoured and pleased to welcome you to this Colloquium. As President of the Italian Group of the IABSE, I wish to thank my dear friend Prof. Thürlimann, President of ISMES, Prof. Fanelli, ENEL Chairman of the Scientific Committee and Dr. Riccioni of ISMES, Chairman of the Organizing Committee.

Indeed, a better use of informatics in structural engineering, which is the main object of this Colloquium, has a growing importance in the wide field of industrial and civil engineering. ISMES is a specialized Institute of Research on Structures, and its main object was and remains the study of large structures, by means of physical and mathematical models and experimental investigations on prototypes of old and new constructions.

This Institute is particularly concerned with the works to be developed during the Technical Sessions with contributes of distinguished Professors and Experts.

Many thanks for your kind attention and best wishes for the results of the meeting.