

REMARKS BY K. KUBO¹, CHAIRMAN OF THEME 3B

Ladies and Gentlemen. It is our honour to be chairman and co-chairman for this afternoon session on "structural response due to ground motion". Prof. Arya said to me that one of the meanings of "Delhi" is the human heart. Therefore by this interpretation, this theme of today is just "Delhi" of the earthquake engineering problems.

During one decade, this field of earthquake engineering has well developed. It is very easily understood, when you compare the number of papers presented to 3 WCEE with that to the present conference. And I believe this field will continue to become larger and larger with high speed.

In this afternoon session, about 100 papers related to structural response due to ground motion will be presented. Fortunately or unfortunately, I don't know, the theme report by Prof. George Housner has already presented in the morning session in the same room, I would like to begin this session by the first speaker. 3.5 minutes are allotted to one paper. I would like to ask all the speaker to finish his presentation within the limit of time for the convenience of other speakers. The second announcement is like that authors of papers B will have only a chance to talk about their papers during discussion time after presentation of papers A.

As a conclusion, the chairman would like to speak that most of the paper are related to non-linear analysis and stochastic approach but there are still elastic analysis for complicated structures as well as for special problems which are difficult to be solved, for instance, size effect of the foundation, or soil - structure - interaction problems.

The more precisely the computation can be done, the more deeply the characteristics of input waves must be studied and discussed.

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The most important problem is how to check the theoretical analysis, by the real response records and ground movement records or by vibration test by using excellent models on the shaking table.