

Professors S. Okamoto and C. Tamura visited to the southern part of Akita Pref. in northern part of Japan in order to survey the damages due to the earthquake (originated Sept. 16, 1970, M=6.5). The photo shows the damage at the primary school due to the earthquake in the hypocentral area.



The Japan Electric Association published "The Technical Guidelines for Aseismic Design of Nuclear Power Plants" on Oct. 20, 1970. Prof. Tajimi, Dr. Akino, Prof's Shibata and Sato joined to the working group of the committee. Prof. Tajimi wrote the section on the determination of design ground motion of earthquake, Dr. Akino did on the aseismic design of buildings and structures, Prof's Shibata and Sato did on the aseismic design of equipment and piping system. Prof. Okamoto and the four of above were the members of the drafting committee of them.

#### MEETINGS OF ERS OF FISCAL YEAR 1969

##### 6th Meeting (December 5)

Two papers

Tomii and Takeuchi: The Relations between the Deformed Angle and the Shearing Force Ratio (0.80 - 1.00) with Regard to 200 Shear Walls

Hakuno and Shidawara: Dynamic "Force-Displacement" Relations of Cantilever Test Piece Applied by Earthquake Type External Force are introduced by Prof. Kawamata and Assistant Suzuki respectively.

##### 7th Meeting (January 9)

Two papers

Goto and Kameda: A Statistical Study of the Maximum Ground Motion in Strong Earthquakes

Kobori et. al.: Earthquake Responses of a Frame Structure Having Elasto-Plastic Joints-Effect of Elastic Limit Strength Distribution of Structural Members on their Responses are introduced by Professors H. Shibata and H. Tajimi respectively.

8th Meeting (February 6)

Two papers

N. Wakabayashi et. al.: An Experimental Study on the Inelastic Behaviour of Steel Frames with a Rectangular Cross-Section Subjected to Vertical and Horizontal Loading.

Hatano and Watanabe: Seismic Analysis of Earth Dams are introduced by Professors Takanashi and Tamura respectively.

9th Meeting (March 20)

Professor Tajimi spoke of Site Characteristics in Strong Motion Accelerograms.

The paper "Evaluation of Earthquake Intensity Based on Damage of Wooden Buildings" by Kobayashi and Nagahashi was introduced by Prof. Okada.

#### MEETING OF ERS OF FISCAL YEAR 1970

1st Meeting (April 7)

Prof. Kawamata spoke of "The Natural Vibration Analysis of Rotatory Shell as a Two-Degree-of-Freedom System" and "The Natural Vibration Analysis of Cylindrical Shell by Rayleigh-Ritz Method". Assistant Suzuki introduced the paper "Strong Motion Earthquake Simulation" by Rascon and Cornell.

2nd Meeting (May 12)

Prof. Okada talked about "The Relation Between the Intensity of Response Spectrum and Damage". Prof. Sato spoke of "On the Confidence Interval of Acceleration Response Amplification Factor".

3rd Meeting (June 12)

Prof. Hakuno talked about "Dynamic Fracture Experiment of the Beam Controlled by Computer".

4th Meeting (July 7)

Graduate Student Shimizu spoke of "Statistical Analysis of Simulated Earthquake for Response Spectrum Analysis".

5th Meeting (September 1)

Prof. Kubo talked about the General Idea of the Aseismic Design of Long Span Suspension Bridge.

6th Meeting (October 6)

Graduate Student Mr. Muraki spoke of the paper "The Vibration Analysis of Structure by FEM" which were studied with Prof. Kawai.

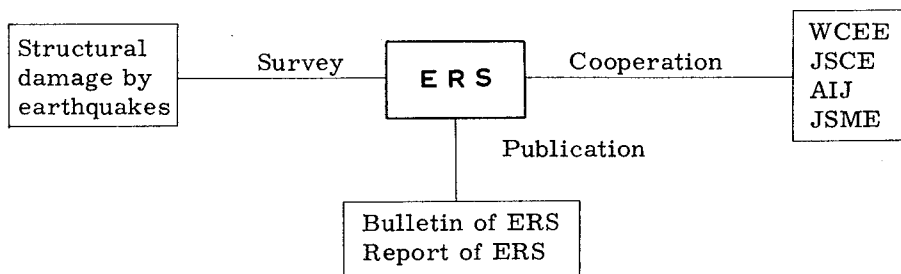
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Earthquake Resistant Structure Research Center (ERS) is an organization for cooperation of researchers in the various branches of structural engineering in the Institute of Industrial Science, University of Tokyo. Its activities concern with fundamentals of the earthquake resistant structure and specific items in the fields of civil, structural and mechanical engineering.

#### Activities of ERS



- WCEE : The World Conference of Earthquake Engineering
- JSCE : The Japan Society of Civil Engineers
- AIJ : The Architectural Institute of Japan
- JSME : The Japan Society of Mechanical Engineers