

## EXHIBITION, EXHIBITORS AND MOVIE SHOW

### 1. Exhibition and Exhibitors

As for the exhibition during the conference, it was planned that the pictures of earthquake damage, pictures or drawings of aseismic structures and seismological instruments and equipments would be exhibited after the model of the exhibition hall at the Berkeley Meeting in 1956.

For foreign countries, an announcement was made, through the circular, on the exhibition, inviting applications from abroad. At the same time, the Organizing Committee sent letters of inquiry to U.S.A. and Mexico.

In Japan, the recommendation to exhibit the drawings and photographs of aseismic structures was made through the Japan Construction Association.

The Organizing Committee especially requested the Japan National Railway and nine construction companies to offer exhibits.

For the exhibition of instruments produced in Japan, it was considered at the beginning, that its range would be extended to include the general purpose vibrograph and many gauges used for statical tests of earthquake-proof structures. Because of the limited space, however, seismographs alone were exhibited.

We also requested each university and research institute, which participants would not be able to visit during the conference, to present pictures for the purpose of introducing their research facilities.

On July 8th the preparation for the exhibition started by bringing-in, unpacking and assembling instruments which came from United States. The work was done by members of the Organizing Committee in cooperation with Mr. W.K. Cloud of U.S. Coast Geodetic Survey, Professors D.E. Hudson and T.K. Caughey.

From the night of the same day the room was prepared for the exhibition by the Kogeisha Co. On July 9th exhibits from Japan were brought in and displayed, and everything finished before the opening session.

The exhibits were shown in good order from the entrance of the exhibition room as follows:

- (1) The Model of Choko's Seismograph : The National Science Museum
- (2) 6 Earthquake Damage Photographs : Institute de Ingenieria Ciudad Universitaria Mexico D.F.

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- (3) 28 Earthquake Damage Colour Photographs : Earthquake Engineering Research Institute, U.S.A.
- (4) 3 Alaska Earthquake Photographs : Earthquake Engineering Research Institute, U.S.A.
- (5) 5 Seismograms of 1941, IV 15, Mexico Earthquake : J. Figueroa
- (6) Exhibition Panel : U.S. Coast and Geodetic Survey
- (7) Strong Motion Seismograph and Copies of Accelerogram : U.S. Coast and Geodetic Survey
- (8) 60 Earthquake Damage Photographs : Muto Lab., University of Tokyo
- (9) 16 Earthquake Damage Photographs : Japan Society of Civil Engineers
- (10) 8 Photographs of Earthquake Phenomena in Hachiro-Gata : Mogami Lab., University of Tokyo
- (11) 5 Earthquake Damage Photographs : Earthquake Research Institute
- (12) Pictures, Drawings and Models of Aseismic Structures Constructed by the Big Constructors in Japan.
  - (a) Nishimatsu Const. Co.  
Kinkai Bay Levee Project for Reclamation by Drainage  
General View of Kannonji Levee for Saltfield  
A View of Pier with Coal Loader at Muroran Wharf, Hokkaido  
Kamaishi Iron Works - Foundation of Blast Furnace
  - (b) Shimizu Const. Co.  
Tokai-Mura, The Japan Atomic Power Company, Nuclear Power Station  
Shimizu Building
  - (c) Toda Const. Co.  
Tokyo City Hall Building  
Japan Air Line's Operation Center
  - (d) Hazama Const. Co.  
Nagoya Castle  
Sakuma Dam
  - (e) Takenaka Const. Co.  
Takenaka Caisson Method  
Tenjin Building  
Kansai Electric Power Co. Bldg.  
New Asashi Building  
Nikkatsu International Building

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Dai-ichi Life Insurance Building  
Tokyo Tower

- (f) Yokogawa Bridge Works, Ltd.  
Inoura Bridge  
Jogashima Bridge  
Saikai Bridge
- (g) Ohbayashi Const. Co.  
Mukabira Dam  
New Kabuki Theatre  
Shitennoji Temple Five-Story Pagoda  
Kagawa Prefectural Government Building
- (h) Taisei Const. Co.  
Vibration Elimination Table  
Vibration Exciter  
Ohtemachi Building  
Tokyo International Trading Center  
National Stadium  
Yoshiigawa Bridge  
Shoko Kaigi Sho  
Ube Gymnasium  
Arch Shoring Method
- (i) Kajima Const. Co.  
Ogochi Dam  
Kamishiba Arch Dam  
Mitsui Hibiya Building
- (j) Bessi Kensetsu Co.  
Prestressed Concrete Bridge (Ranzan Bashi)
- (k) Tokyo Construction Division, Japan National Railway  
Kawasaki Electric Power Station
- (13) Strong Motion Seismograph Stations in Japan and in Tokyo,  
Photographs of Large Vibrator, Large Seismic Test Table,  
500<sup>t</sup> Testing Machine : Building Research Institute
- (14) The Distribution of Seismic Intensities of Four Disastrous  
Earthquake in Japan  
Distribution of Earthquake Origin in and near Japan (1926  
- 1959)  
Network of Seismological Station under Japan Meteorological  
Agency : Japan Meteorological Agency
- (15) Strong Motion Earthquake Recorder  
Response Spectrum Analyzer : California Institute of  
Technology
- (16) Instruments

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- (a) Akashi Seisakusho Ltd.  
Strong Motion Seismograph, Model SMAC  
Photographs of Akashi Portable Acceleration  
Seismograph Model US-P  
Ishimoto Acceleration Seismograph, Model IAS and  
Hagiwara Displacement Seismograph, Model HES  
Televibrometer Model LI, JI, AI  
Akashi Universal Vibrograph AVT  
Vibration Analyser AFS  
Hagiwara Electro-Magnetic Seismograph, Model HES
- (b) Hozaka Shindo Keiki MFG Co. Ltd.  
Natural Periodmeter  
Horizontal Vibration Transducer  
DC3-Type Strong Motion Seismograph  
Seismic Starter  
Microtremometer
- (c) Katsujima Instrument Co.  
Electrodynamic Seismometer
- (17) Earthquake Damage Photographs of May 21 and 22, 1960, Chile :  
R. Flores, E. Arze and R. Vignola
- (18) Model of Ajigawa Bridge : Japan National Railway
- (19) Photographs of experiments of aseismic structure and ex-  
perimental facilities
  - (a) Shear Tests of Quake Resisting Walls : Kyushu University
  - (b) Vibration Test of a Railway Bridge using a Vibrator :  
Japan National Railway
  - (c) Sinusoidal Vibration Table : Public Works Research  
Institute
  - (d) Large Vibration Table with Exciting Vibrator : Tohoku  
University
  - (e) Vibration Table : Tokyo Institute of Technology
  - (f) The Experimental Equipments of Oscillating Earth  
Pressure and Large Ground Vibrator : Transportation  
Technical Research Institute
  - (g) 2000<sup>+</sup> Testing Machine : University of Tokyo
  - (h) Vibration Table and Model of Dam : Central Research  
Institute of Electric Power Industry
  - (i) Vibration Table, Vibration Test of Pile, Bridge, Pier :  
Transportation Technical Research Institute

(20) 14 Photographs of Tsunami Damage in Japan Caused by Chilean Earthquake of May, 1960

In addition to the above exhibits in the hall, 10 photographs of Japanese Tsunami damage caused by Chilean Earthquake, which were presented from Dr. Kamei, professor of Tohoku University, and 4 photographs of damage presented from Japan National Railway were exhibited on the walls of the corridor.

At a corner of the lobby, the following publications issued by the American Earthquake Engineering Research Institute were exhibited:

Symposium on Earthquake and Blast Effect on Structures, 1952

Proceedings of the World Conference on Earthquake Engineering, Berkeley, California, June 1956

E.P. Hallis : Bibliography of Engineering Seismology, 1958

G.M. Duke : Bibliography of Effect of Soil Conditions on Earthquake Damage, 1958

Earthquake and Fire, 1958

H.J. Degenkolb, C.M. Herd, G.E. Morris and N.W. Bolin : Inspector's Manual, Earthquake Resistant Construction

## 2. Movie

As "Great Earthquake in Japan" which was projected at a movie show during the Conference held at Berkeley in 1956 was very reputable, we decided to make this film Part I and it was planned by the Organizing Committee to produce two more films and throw them with Part I on the screen as a trilogy about the Japanese earthquakes.

### A. Part II : "The Fury of Earthquakes"

This film is a collection of extracts from documentary films of earthquakes discovered after the production of Part I "Great Earthquake in Japan". Materials investigated are as follows:

Films belong to Japan Meteorological Agency

Kanto Earthquake	1923
Sanriku Earthquake	1933
Izu Earthquake	1930
Shizuoka Earthquake	1917
Formosa Earthquake	1927
Tajima Earthquake	1925

Films belong to National Fire Defense Agency

Great Earthquake  
Earthquake Damages  
Thrill and Peace

Film belongs to Fukui Prefectural Government

Fukui Earthquake 1948

Film belongs to Kochi Prefectural Government

Nankai Earthquake 1946

Film belongs to Mr. Yosuke Saito

Kanto Earthquake 1923

Referring to the history of earthquakes in Japan, this film contains the dislocation of ground, damage of each structure of building and civil engineering work and the phenomena of fire and Tsunami. The final scene is the Tsunami damage in the Sanriku Districts caused by the Chilean Earthquake.

**B. Part III : "Man's Struggle with Earthquakes"**

Documentary films of earthquakes which show only past damage, i.e. Part I and II, are not enough to introduce the recent development of Earthquake Engineering in Japan.

Therefore we produced Part III in technicolor. The contents of this film are research activities on earthquake engineering and aseismic structures built in Japan, showing various experiments in Research Laboratories and engineering works in construction sites. It ends with introduction of the observation of strong motion earthquake.

The movie show was held on July 12 in Room No.1 of Sankei Kaikan. It was so reputable among foreign participants that a few participants bought the films to take them to their countries.

Copies of those films are available at Nihon Shikaku Kyozaï Co. Ltd., 26 Sakuragawa-cho Nishikubo, Minato-ku, Tokyo, Japan,

Price : ¥ 35,000 for Part II  
¥105,000 for Part III.