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CANADA  
SURVEYS AND ENGINEERING BRANCH

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ERNEST A. HODGSON

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# Bibliography of Seismology

July, August, September, 1940

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(1) "Comparison of Depths to Rock as Obtained by Borings and by Seismic Determinations in the Ohio River Division."  
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(3) "Interpretations of Seismic Data."  
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  - (b) "Costs and Quantities of Seismic Explorations in the Ohio River Division", p. 17 *seq.*
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  - (2) "New Earthquake Analyzer Developed at M.I.T.", No. 23, p. 39, 1 fig., June 6.
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sensitivity . . . to corpuscular emanations . . . such as kathode rays. In the second of the periodicals the bearing on geophysical prospecting for minerals is dealt with and possible lines of training dowsers discussed.

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  - (3) HEINRICH, Ross R., "Notes on the Seismic History of Missouri", 169-170.
  - (4) ROBERTSON, Florence, "A Series of Mexican Earthquakes", p. 170.
  - (5) HEINRICH, Ross R., and FRANK, Albert, "The Illinois Basin Earthquake of November 17, 1937", 170-171.
  - (6) BRUNNER, George J., S.J., "Recent Theories Concerning the Dynamic Causes of Earthquakes", 171-173.
- 4892. MIYABE, N., "Studies in the Sinking of the Earth's Surface in Tokyo; IV. Periodic Movements of the Ground in Hukagawa, Tokyo" (in Japanese with abstract in English and with both Japanese and English titles of illustrations), *Bulletin, Earthquake Research Institute*, Vol. 18, Part 1, 57-77, 9 fig., bib., Tokyo, March, 1940.
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  - (3) "Earthquakes in Peru", No. 3683, p. 854, June 1.
  - (4) "Recent Earthquakes", No. 3684, p. 892, June 8.
  - (5) "Earthquakes of Missouri", No. 3686, June 22.
- NELSON, G. E., "The Seismic Method of Subsurface Exploration, with Particular Reference to Its Field of Usefulness and Its Limitations". See No. 4875 of this list.
- 4894. NELSON, J. H., "Earthquake Notes", Vol. 11, No. 4, 13 pp., Washington, April, 1940.

The above publication is the organ of the Eastern Section of the Seismological Society of America. Notes of interest to members should be brought to the attention of the editor, J. H. Nelson, Coast and Geodetic Survey, Washington, D.C., U.S.A.

The subjects dealt with in the above issue are: Fifteenth Annual Meeting—at Xavier University; Progress of earthquake-resistant design; Earthquake-proof construction; Record enlarger; Bermuda seismograph; History and development of

seismology at the University of Pittsburgh Seismological Station (by Donald C. Bradford); Bibliography of Seismology (note from Nature); Japanese earthquake of May 1, 1939; Earthquake off Central America; Other recent earthquakes; Earthquake in Turkey; Seismic studies at Observatorio del Salto; A study of the slow period movements of the earth's crust in relation to the earthquake of January 24, 1939; Earthquake of January 24, 1939, and the eruption of the volcano Quizapu (by Julio Bustos Navarrete); Separating reflected waves in seismic prospecting; Bulletin Séismique temporarily suspended; A.I.M.M.E.; Epicentres.

4895. NEW ZEALAND STANDARDS INSTITUTE, "Standard Code of Building Bylaws"; Parts I-IV (in one volume). Price 1/- nett, post free 1/3d.; Parts V-VI (in one volume). Price 3/6 nett, post free 3/9d. May be obtained from the New Zealand Standards Institute, Hamilton Chambers, 201 Lambton Quay, Wellington, C.1, New Zealand.

Provision for earthquake stresses is made throughout the various parts of the above code.

4896. NORTHERN MINER, "Rock Burst Menace Attracts Wide Attention, Expert Study", *The Northern Miner*, p. 33, Toronto, March 7, 1940.

In the same issue is reprinted the article on "Rock Bursts in Lake Shore Mines", by Robson, Adamson, and Selnes, reported as No. 4758 of these lists. G.H.A.C.

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- (2) SALVATORI, Henry, "Seismic Well Logging", U.S. No. 2,137,985, Nov. 22, 1938.
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4898. PRATT, Wallace E., "Memorial to Donald Clinton Barton", *Proceedings, Geological Society of America*. 1939, 153-166, 1 pl., bib., Washington, June, 1940.

— RAMIREZ, J. Emilio, S.J., "The Chester, Illinois, Landslide". See No. 4891 of this list.

4899. REPETTI, W. C., S.J., Bibliographical items from old journals. These lists have been furnished by Father Repetti of Manila Observatory, Philippine Ids. They have been edited for the Bibliography by Miss Gertrude McDonald of the Seismological Division of the Dominion Observatory. See Appendix to this list.

— ROBERTSON, Florence, "A Series of Mexican Earthquakes". See No. 4891 of this list.

4900. RÖSSLÉ, Per., "Seismische Arbeiten im Gebiet zwischen Allermündung und Weserbergland", *Oel und Kohle*, Vol. 14, No. 46, 943-945, Berlin, 1938.

An abstract by W. Ayvazoglou appears as No. 4816 p. 21 of *Geophysical Abstracts 96*, reported as No. 4870 of this list.

4901. ROTHÉ, E., et al., Annales de l'Institut de Physique du Globe, 1936, Nouvelle Série, Tome 1, Deuxième Partie, Séismologie, 141 pp., Mende, 1939.

In addition to the list of earthquakes as recorded at the various stations in France and elsewhere under their control, reports of microseisms as registered at Strasbourg and at Parc Saint-Maur are given by Charles Bois and L. Génaux, respectively. The seismicity of various regions in France and in the colonies are given by J. Rothé, P. Stahl, Mme. A. Hée, J. Debrach, Charles Poisson, and E. Bruzon.

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  - (2) "The Alaskan Earthquake of May 28", *Ibid.*, p. 13 Suppl.
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  - (2) "Earth Trembles: June 5", No. 24, p. 375, June 15.
  - (3) "Earthquakes Repeated with New Analyzer", *Ibid.*, p. 376.
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- The article indicates the trend of research in geophysics. It is a good general review of the present status of geophysics—gravity, seismology, magnetics—as they bear on our knowledge of the earth's interior. R.R.B.
4908. STONELEY, Robert. Review of "Internal Constitution of the Earth", edited by B. Gutenberg and reported as No. 4539 of these lists. *Philosophical Magazine and Journal of Science*, Vol. 30, No. 198, 82-84, London, July, 1940.
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4911. UMBGROVE, J. H. F., "Periodicity in Terrestrial Processes", *American Journal of Science*, Vol. 238, No. 8, 573-576, bib., New Haven, August, 1940.
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4914. WILLIS, Bailey, "Why the Japanese Islands?", *Scientific Monthly*, Vol. 51, No. 2, 99-111, 1 map, New York, August, 1940.
- WOOD, A. E., "Methods and Procedure for the Interpretation of Seismic Data Adopted by the Binghamton District". See No. 4875 of this list.
4915. WORLD PETROLEUM CONGRESS, "Deuxième Congrès Mondial du Pétrole", Vol. 1, Section 1, Paris, 1937.  
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4916. YOSIYAMA, Ryoiti, "Elastic Waves from a Point in an Isotropic Heterogeneous Sphere" (Part 2), *Bulletin, Earthquake Research Institute*, Vol. 18, Part 1, 41-56, bib., Tokyo, March, 1940.

## LIST OF COLLABORATORS

The initials appended to various items throughout the *Bibliography* indicate, in each case, the contribution by the respective collaborator.

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## APPENDIX

## BIBLIOGRAPHICAL ITEMS FROM OLD JOURNALS

A compilation of bibliographical items referring to old publications has been prepared by Rev. C. W. Repetti, S.J., and is presented below. The lists are in two categories: those taken from the *Transactions of the Seismological Society of Japan* and those from a miscellany of publications. Following Father Repetti's lead, those of the first group are given in chronological order, while those of the latter are in the alphabetical order of authors' names.

It is to be noted that the *Transactions of the Seismological Society of Japan* ran through sixteen volumes. The name was then changed to *Seismological Journal of Japan* for Vols. XVII-XVIII-XIX. The next volume was given the number IV.

Ia. Items taken from the *Transactions of the Seismological Society of Japan, Tokyo*:

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- (2) EWING, J. A., "A New Form of Pendulum Seismograph", Vol. I, Part I, 38-43, 3 drawings, April-June, 1880.
- (3) WAGNER, G., "On a Seismometer", Vol. I, Part I, 54-72, 1 drawing, April-June, 1880.
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- (5) MENDENHALL, T. C., "On a Determination of the Acceleration Due to the Force of Gravity at Tokyo", Vol. I, Part I, 52-53, April-June, 1880.
- (6) MILNE, J., "The Earthquake in Japan of February 22nd, 1880", Vol. I, Part II, 1-116, April-June, 1880.
- (7) GRAY, T., "On Steady Points for Earthquake Measurements", Vol. III, 1-11, 3 plates, Jan.-Dec., 1881.
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- (10) PERRY, J., "Note on the Rocking of a Column", Vol. III, 103-106, Jan.-Dec., 1881.
- (11) KNIPPING, E., "Observation of the Nature (Modalität) of the Earthquake of July 25, 1880", by means of Dr. G. Wagner's Seismometer (A translation from the *Mittheilungen der Deutschen Gesellschaft für Natur-und Völkerkunde Ostasien's*), Vol. III, 107-110, Jan.-Dec., 1881.
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- (15) MILNE, J., "Notes on the Horizontal and Vertical Motion of the Earthquake of March 8, 1881", Vol. III, 129-136, 2 plates, Jan.-Dec., 1881.

- (16) GRAY, T., "On a Seismograph for Registering Vertical Motion", Vol. III, 137-139, 1 plate, Jan.-Dec., 1881.
- (17) EWING, J. A., "A Seismometer for Vertical Motion", Vol. III, 140-142, 1 plate, Jan.-Dec., 1881.
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- (19) GRAY, T., "On a Method of Compensating a Pendulum so as to Make It Astatic", Vol. III, 145-147, Jan.-Dec., 1881.
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- (21) MILNE, J., "The Distribution of Seismic Activity in Japan", Vol. IV, 1-30, 1 plate, Jan.-June, 1882.
- (22) ABELLA Y CASARIEGO, Enrique, "The Earthquakes of Nueva Vizcaya, Philippine Islands, in 1881", Vol. IV, 38-60, 2 plates, Jan-June, 1882.
- (23) EWING, J. A., "A Note on the Earthquake of March 11, 1882", Vol. IV, 73-77, Jan.-June, 1882.
- (24) DOYLE, Patrick. "Note on an Indian Earthquake, Jan. 1, 1882 (?)", Vol. IV, 78-88, 1 plate, Jan.-June, 1882.
- (25) MILNE, J., "Suggestions for the Systematic Observation of Earthquakes", Vol. IV, 87-117, 4 plates, Jan.-June, 1882.
- (26) CENTENO Y GARCIA, Jose, "Abstract of a Memoir on the Earthquakes in the Island of Luzon in 1880", Vol. V, 43-88, 3 plates, May-Dec., 1882.
- (27) EWING, J. A., "Seismological Notes: I. A Duplex Pendulum Seismometer; II. The Suspension of a Horizontal Pendulum; III. A Special Governor for Seismograph Clocks", Vol. V, 89-93, 1 plate, May-Dec., 1882.
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- (30) ALEXANDER, T., "Note on the Development and Interpretation of the Record which a Brachet Machine Gives of an Earthquake", Vol. VI, 13-18, 1 plate, Jan.-June, 1883.
- (31) EWING, J. A., "On a Duplex Pendulum with a Single Bob", Vol. VI, 19-20, Jan.-June, 1883.
- (32) WEST, Charles D., "Suggestions for a New Type of Seismograph", Vol. VI, 22-24, 1 plate, Jan.-June, 1883.
- (33) EWING, J. A., "On Certain Methods of Astatic Suspension", Vol. VI, 25-29, Jan.-June, 1883.
- (34) ALEXANDER, T., "Note on the Ball and Cup Seismograph", Vol. VI, 30-31, Jan.-June, 1883.
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