# DEPARTMENT OF MINES AND RESOURCES CANADA

SURVEYS AND ENGINEERING BRANCH

## **PUBLICATIONS**

OF THE

# **Dominion Observatory**

**OTTAWA** 

VOL. XIII

# Bibliography of Seismology

No. 16

Items 5788-5893

JULY to DECEMBER, 1944

BY

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## Bibliography of Seismology

July to December, 1944

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- Athy, L. F., and McCollum, E. V., "Method of Making Geophysical Explorations" (Patent), U.S. No. 2,336,053, issued Dec. 7, 1943. See Nos. 5857 and 5859 of this list.
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The above issue deals with the following topics: Minutes of the Annual Meeting of the Eastern Section held at Georgetown University, June 3, 1944; Fiji Seismological Station; Treasurer's Report; Obituary, Harry Fielding Reid; Discussion of Continental Drift; Standard Frequency Broadcasts; Notes of decease of Nathan Hayward; Earthquakes in New Zealand; Professor Hobbs' article on New Volcanoes; List of Epicentres; Personals.

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- (2) "Recent Results of Earthquake Study in Southern California" (5589).
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     Vol. 25, No. 5, Sec. B, 226-228, 1 map, Wellington, 1944.
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L.D.L. + R.R.

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- 5842. Maevert, W., "Entstehung von Gebirgsschlägen", Glückauf, Vol. 74, No. 20, 421-428, Essen, May 20, 1939.

Discusses the origin of rock bursts and means of combating their effects in coal mines.

- MARX, SPACKELER, and BRACHT, "Untersuchungen über Gebirgsschläge". See No. 5795 of this list.
- 5843. Masarskii, S. I., "The Derivation of Equations for Hodographs of Waves Refracted and Reflected from the Surfaces n Planar Inclined Boundaries" (in Russian), Akademiia Nauk S.S.S.R., Trudy Seismologicheskogo Instituta, No. 106, 29-41, Moscow, 1941.

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American Institute of Mining and Metallurgical Engineers, Publications, No. 74, 1-20, with discussion 20-30, New York, Feb., 1934.

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- 5845. McCarty, "Safer Blasting near Power Lines", Explosives Engineer, Vol. 21, No. 5, 192-194, Wilmington, Sept.-Oct., 1943.
- McCarty, M. D., "Apparatus for Recording Seismic Waves" (Patent), U.S. No. 2,340,272, issued Jan. 25, 1944. See Nos. 5857 and 5859 of this list.
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- 5846. Mejia, Julio E., "Elementos de Sismologia". Published by Tip. La Union, Dutriz Hermanos, 59 pp., 22 fig., tab., San Salvador, 1940. J.E.M.
- 5847. MINTROP, Ludger, "Über Anwendungen des seismischen Verfahrens im Erdölbergbau und ihre wirtschaftlichen und wissenschaftlichen Auswirkungen", Oel und Kohle, Vol. 39, No. 10, 269-287, Berlin, 1943.

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- Moore, R. Woodward. Discussion of paper by M. T. Huntting, "Geology in Highway Engineering", reported as No. 5823 of this list.
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  - (1) "Recent Earthquakes", No. 3891, p. 649, May 27.
  - (2) "Recent Earthquakes", No. 3893, p. 708, June 10.
  - (3) "Earthquakes Registered in Spain", No. 3894, p. 741, June 17.
  - (4) "Earthquakes During March 1944", No. 3898, p. 79, July 15.
- 5849. NATURE. Brief items of interest to seismologists have appeared in recent issues of Vol. 154 of the above periodical (London, 1944), as follows:
  - (1) "Earthquakes in Southern California", No. 3903, 247-248, 1 tab., Aug. 19.
  - (2) "Seismology in China", No. 3907, p. 360, Sept. 16.
  - (3) "The Sprengnether Vertical Seismograph", No. 3909, p. 436, Sept. 30.
  - (4) "Earthquakes during the Second Quarter of 1944", Ibid., p. 439.
  - (5) "Recent Earthquakes", No. 3912, 510-511, Oct. 21.
  - (6) "Earthquakes during July", No. 3917, p. 665, Nov. 25.
  - (7) "Recent Earthquakes", No. 3918, p. 700, Dec. 2.
  - (8) "Geology without Tears", No. 3919, 720-721, Dec. 9.
  - (9) "Earthquake in Japan", No. 3920, p. 762, Dec. 16.
  - (10) "Recent Earthquakes", No. 3921, p. 794, Dec. 23.

- 5850. Navarro, José Rodríguez, "La forma de las isosistas en relación con la estructura geológica del terreno en el sismo de 20 de Marzo de 1933", Revista de Geofísica, Año 3, Núm. 10, 228-241, 5 plates, Instituto Nacional de Geofísica, Madrid, April-June, 1944. V.I.
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Discusses the reclamation of stope pillars by diamond drilling and long-hole blasting. The paper was presented at a regular meeting of the Society, and was followed by a discussion, reported in full, led by G. B. Batty, G. H. Stanley, J. Q. St. Clair, A. H. Ridley.

5852. Оснечен, I. B., "The Connections between Several Amplifiers Fed from a Common Source" (in Russian), Akademiia Nauk S.S.S.R., Trudy Seismologicheskogo Instituta, No. 106, 60-63, Moscow, 1941.

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- Olson, R. W., and Shook, E. M., "Method for Seismic Surveying" (Patent). See Nos. 5857 and 5859 of this list.
- 5853. O'Neill, J. J., "Removal of Ice Pressure Causes Earthquakes Every Five Years", Saturday Night, Vol. 60, p. 18, Toronto, Sept. 16, 1944.

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E.A.H.

- 5854. Padva, Philip, "An Electronic Curve Tracer", Electronics, Vol. 11, No. 2, 87-90, 202, 4 fig., New York, Feb., 1943.

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- 5855. Pastor, Alfonso Rey, "La comarca sísmica del Bajo Segura", Revista de Geofísica, Año 3, Núm. 9, 22-59, num. figs. and tabs., bib., Instituto Nacional de Geofísica, Madrid, Jan.-March, 1944.
- 5856. Pastor, Alfonso Rey, "La comarca sísmica de Villena", Revista de Geofísica, Año 3, Núm. 10, 242-263, 3 plates, 1 tab., Instituto Nacional de Geofísica, Madrid, April-June, 1944.
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- 5857. Patents. In Geophysical Abstracts 117 (See No. 5789 of this list) appears a list of patents (items 7475-7504). Those of particular interest to seismologists are listed in this issue of the Bibliography under the names of the patentees, as follows: Klotz, Athy and McCollum, Stotz, Woods, McCarty, Shook and Olson, Zushlag.
- 5858. Patents. In Geophysical Abstracts 118 (see No. 5789 of this list) appears a list of patents (items 7613-7643). Those of particular interest to seismologists are listed in this issue of the Bibliography under the names of the patentees, as follows: Petty, Reichert, Farnham, Pugh, Eisler.

- 5859. Patents. In *Geophysics* (Vol. 9, No. 3, Tulsa, July, 1944) appears a list of patents. Those of special interest to seismologists are given on pp. 403-404. They are listed in this issue of the *Bibliography* under the names of the patentees, as follows: Athy and McCollum, McCarty, Shook and Olson, Farnham, Reichert.
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- PETTY, O. S., "Time-Break Circuit" (Patent), U.S. No. 2,331,627, issued Oct. 12, 1942. See No. 7615 of the list reported as No. 5858 in this issue.
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## SUBJECT INDEX FOR THE YEAR 1944

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- B2. Bibliographies: Nos. 5677, 5678, 5679, 5789, 5800.
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- B3. Biographies: No. 5862.
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- C2. Causes of Earthquakes: No. 5732.
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- D4. Descriptions, General, of Earthquakes other than those in Canada or the United States: Nos. 5710, 5711, 5753, 5754, 5780, 5813, 5825, 5850.
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- P2. Physics, Experimental, as Applied to Seismological Problems: No. 5833.
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- S3.1. Patents: Nos. 5756, 5757, 5758, 5759, 5857, 5858, 5859, 5866.
- T1. Textbooks; General Treatises on Seismology or Its Applications: No. 5846.
- T4. Time-Distance Curves, Tables, etc.: Nos. 5715, 5843. See also W1. (Studies of Earthquake Waves).
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  - See also E3. (Explosions), M3. (Mathematical Physics), R1. (Records), S3. (Seismic Prospecting), T1. (Texts), T4. (Time-Distance Curves), and V1. (Vibrations).
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