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5894. ADLER, Joseph L., "Geophysical Exploration for Stratigraphic Oil Traps," *Geophysics*, Vol. 8, No. 4, 337-347, bib., Menasha, Oct., 1943.

5895. BAUCHWITZ, F., "Vibrations in Telegraph Wires", *Nature*, No. 3930, Vol. 155, p. 243, London, Feb. 24, 1945.

The writer describes the phenomenon known as "galloping" sometimes observed in telegraph and transmission lines, and erroneously attributed to tremors caused by distant earthquakes. An explanation is offered by R. L. G. Gilbert, V. Robinson, and W. N. Wilson, in a short communication appearing on the same page.

— BAZHAW, W. O., and PARR, J. O., "Seismic Surveying" (Patent), U.S. No. 2,354,659, issued Aug. 1, 1944. See No. 5923 of this list.

5896. BERGEN, Meyer, "Quake Padre", *Good Housekeeping*, pp. 38, 173-176, 1 fig., New York, Feb., 1945.

A popular article dealing with the seismological work of Rev. Joseph Lynch, of Fordham University, New York city. G.O'B.

5897. BERRY, Edward W., "Obituary of Harry Fielding Reid, who died June 18, 1944", *Journal, Washington Academy of Sciences*, Vol. 34, No. 1, 31-32, Washington, Jan. 15, 1945.

— BODLE, Ralph R., "Progress-Report on Seismological Activities of the United States Coast and Geodetic Survey", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 269-271, 1 fig.

5898. BURMISTER, D. M., "The General Theory of Stresses and Displacements in Layered Systems", *Journal of Applied Physics*, Vol. 16, No. 2, 89-94, 1 fig., bib., Lancaster, Feb., 1944.

5899. CARDER, D. S., and GILMORE, M. H., "Ground Vibrations", *Bulletin, Seismological Society of America*, Vol. 35, No. 1, 13-26, 9 fig., 3 tab., bib., Berkeley, Jan., 1945.

— COLLINS, Mary P., and LEET, L. Don, "The Mexican Earthquakes of April 15, 1941, and February 22, 1943", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 315-316.

5900. CREAGER, JUSTIN and HINDS, "Engineering for Dams", John Wiley and Sons, Inc., 3 vol., New York, 1945.

Seven pages (279-285) are given to a discussion of earthquake forces on dams.
J.B.M.

5901. CRITIKOS, N. A. On the occasion of the 35th Anniversary of the Scientific work of Dr. N. A. Critikos, Professor of the Faculty of Sciences of the University of Athens and Scientific Director of the National Observatory of Athens, his colleagues have

decided to publish two volumes of collected papers in his honour. They have prepared a list of his Publications, most of them dealing with seismology or allied subjects. For the sake of completeness this list is reproduced as follows:

Publications

- (1) "Sur les phénomènes chimique des étincelles (Thèse)", *Annales de l'Observatoire Nat. d'Athènes*, t. VII, 1916, pp. 51-61.
- (2) "L'île de Leucade et ses sismes du 23 et 27 Novembre 1914", *Annales de l'Observatoire Nat. d'Athènes*, t. VII (pp. 62-81), 1916.
- (3) "Ein ausserordentlicher Temperaturfall in Athen in Monat April 1923", *Meteorologische Zeitschrift*, Heft 2, 1924. *Annales de l'Observatoire Nat. d'Athènes*, t. X (Mémoires), 1929.
- (4) "Résumé sismique de l'année 1923 en Grèce", *Bulletin sismique de l'Observatoire Nat. d'Athènes*; supplément No. 1, 1925.
- (5) "Impression d'une visite à Santorin", *Annales de l'Observatoire Nat. d'Athènes*, t. VIII (Mémoires), 1926. *Ciel et Terre, Bulletin de la Société Belge d'Astronomie*, Année 1926 (p. 99).
- (6) "Sur les phénomènes sismiques produits avant et depuis l'éruption du volcan de Santorin", *C.r. de séances de l'Académie des Sciences*, t. 181 (p. 923). *Annales de l'Observatoire Nat. d'Athènes*, t. VIII (Mémoires), 1926.
- (7) "Sur la Sismicité des Cyclades et de la Crète", *Annales de l'Observatoire Nat. d'Athènes*, t. IX (Mémoires), 1926. *Gerlands Beiträge zur Geophysik*, Bd. XVIII, Heft 1, 1927 (Rapport).
- (8) "Le tremblement de terre du Péloponèse centrale du 6 Juillet 1925", *Annales de l'Observatoire Nat. d'Athènes*, t. X (Mémoires), 1929.
- (9) "Sur les phénomènes sismiques survenus dans la région de plis dimotauriques pendant l'année 1926", *Annales de l'Observatoire Nat. d'Athènes*, t. X (Mémoires), 1929.
- (10) "Le tremblement de terre de la mer de Crète du 26 Juin 1926", *Publications du B.C. Seism. International*, Série B. Monographie, Fasc. No. 3, 1929 (p. 75). *Annales de l'Observatoire Nat. d'Athènes*, t. X (Mémoires), 1929.
- (11) "Phénomènes sismiques qui ont précédé la récente activité du volcan de Santorin (1928)", *Praktika de l'Académie d'Athènes*, 3, 1928 (p. 450).
- (12) "Ueber die Struktur des Taues", *Annales de l'Observatoire Nat. d'Athènes*, t. X (Mémoires), 1929. *Gerlands Beiträge zur Geophysik*, Bd. XXI, Heft 1, 1929.
- (13) "Le mouvement extraordinaire des marées qui s'est manifesté dans l'Égée en Avril 1928", *Annales de la Commission pour l'étude des Ras de Marée de l'Union Géodésique et Géophysique Internationale*, No. 1, 1931.
- (14) "Sur les causes de mouvements microsismiques de 4 à 8 sec. à Athènes", *Publications du B.C. Seism. International*, Série A. *Travaux Scientifiques*, Fasc. No. 7, 1932 (pp. 1-11).
- (15) "Le tremblement de terre du 17 Avril 1930 dans le Golfe Saronique (d'Égine)", *Praktika de l'Académie d'Athènes* 5, 1930 (p. 166). *Annales de l'Observatoire Nat. d'Athènes*, t. XII (Mémoires), 1940.
- (16) "La nouvelle recrudescence de l'activité sismique dans la région de Corinthe et le tremblement de terre du 4 Janvier 1931", *Praktika de l'Académie d'Athènes*, 6, 1931 (p. 29). *Annales de l'Observatoire Nat. d'Athènes*, t. XII (Mémoires), 1940.

- (17) "Nouveau type de séismographe à pendule horizontale", *Publications du B.C. Seism. International*, Série A. *Travaux Scientifiques*, Fasc. No. 10, 1934 (pp. 19-27).
- (18) "Sur la séismicité de Macédoine", *Gerlands Beiträge zur Geophysik*, Bd. 40, 1933 (pp. 371-379). *Annales de l'Observatoire Nat. d'Athènes*, t. XII (Mémoires), 1940.
- (19) "D. Eginitis, Necrologie", *Gerlands Beiträge zur Geophysik*, Bd. 42, 1934, No. 3-4 (pp. 129-130).
- (20) "Über das System der Orientierung der alten Denkmäler von Athènes", *Praktika de l'Académie d'Athènes*, 12, 1937 (p. 1030).
- (21) "Phénomènes météorologiques et magnétiques, observés près d'Athènes, pendant l'éclipse totale du soleil du 10 Juin 1936", *Gerlands Beiträge zur Geophysik*, t. 50 (1937), pp. 18-21.
- (22) "Journal des phénomènes éruptifs du volcan de Kaménis (Santorin) de 1925-1926 et de 1928", *Bulletin volcanologique de l'Association de Volcanologie de l'Union géodésique et géophysique internationale*, Série II, Tome III—1938.
- (23) "Les conditions climatiques dans l'été sur le mont Parnès", *Publications de l'Institut de Physique et de Météorologie du Ministère de l'Agriculture de Grèce*, No. 10, 1938.
- (24) "Causes et effets probables des éruptions du volcan de Santorin survenues au cours des derniers millénaires avant l'ère vulgaire", *Bulletin volcanologique de l'Association de Volcanologie de l'Union géodésique et géophysique internationale*, Série II, Tome IV—1938.
- (25) "Carte séismologique de Grèce (lithographique), 1938".
- (26) "Die Schlinger der Meermuehlen vos Argostoli", *Geographischer Anzeiger*, Jahrgang 1939, Heft 8.
- (27) "Sur la sismicité de l'Attique, 1939". Rapports présentés à la septième conférence de l'Union géodésique et géophysique Internationale à Washington (Septembre 1939).
- (28) "Sur l'International 'Seismological Summary', 1939". Rapports présentés à la septième conférence de l'Union géodésique et géophysique Internationale à Washington (Septembre 1939).
- (29) "Sur l'état de la Séismologie dans la Crète, 1939". Rapports présentés à la septième conférence de l'Union géodésique et géophysique Internationale à Washington (Septembre 1939).
- (30) "Catalogue des tremblements de terre ressentis en Grèce pendant les années 1915-1918", *Annales de l'Observatoire Nat. d'Athènes*, t. VIII, 1926.
- (31) "Catalogue des tremblements de terre ressentis en Grèce pendant les années 1919-1922", *Annales de l'Observatoire Nat. d'Athènes*, t. IX, 1926.
- (32) "Catalogue des tremblements de terre ressentis en Grèce pendant les années 1923-1926", *Annales de l'Observatoire Nat. d'Athènes*, t. X, 1928.
- (33) "Catalogue des tremblements de terre ressentis en Grèce pendant les années 1927-1930", *Annales de l'Observatoire Nat. d'Athènes*, t. XII, 1932.
- (34) "Das zerstörende Erdbeben des 1 März 1941 in Larissa", *Veroeffentlichungen der Reichsanstalt fuer Erdbebenforschung in Jena*, Heft 40, 1941.
- (35) "L'activité sismique en Grèce pendant les années 1931-1941", *A. Catalogue sismologique*, *B. Monographies des grands sismes* (sous presse).

- (36) "Caratteristiche dei sismogrammi di terremoti prossimi ad Atene e fenomeni relativi nella regione epicentrale", *Geofisica pura et applicata*, 4, Fasc. 2-3 (pp.82-96), 1942.
- (37) "Sur la continuation actuelle de l'activité sismique en Asie Mineure, dans la Mer Egée et dans la Péninsule grecque" (sous presse).
- (38) "La dernière période de l'activité du volcan de Santorin (1939-1941)" (sous presse).
5902. DANA, Stephen W., "The Amplitudes of Seismic Waves Reflected and Refracted at the Earth's Core", *Bulletin, Seismological Society of America*, Vol. 35, No. 1, 27-35, 6 tab., bib., Berkeley, Jan., 1945.
- DILLON, Vincent, and LYNCH, William A., "Characteristics of Alaskan Earthquake Records at Distances of 40° to 70°." See No. 5906 of this list.
5903. DOBRIN, Milton B., "Description of ESMWT Course in Petroleum Geophysics, Conducted in Washington, D.C.", *Geophysics*, Vol. 9, No. 4, 560-562, Menasha, Oct., 1944.
- DUVALL, Wilbur, and OBERT, Leonard, "Microseismic Method of Predicting Rock Failure in Underground Mining, Part 1, General Method; Part 2, Laboratory Experiments". See No. 5920 of this list.
5904. EBY, J. Brian, "Geophysical History of the Iowa Field, Calcasieu and Jefferson Davis Parishes, Louisiana", *Geophysics*, Vol. 8, No. 4, 348-355, 6 fig., Menasha, Oct., 1943.
5905. ENGINEERING NEWS-RECORD, "Desk-Girder Railroad Bridge Has Earthquake-Resistant Features", *Engineering News-Record*, Vol. 134, No. 4, 90-91, 2 fig., New York, Jan. 25, 1945.
5906. FLEMING, J. A., et al., "Transactions of the American Geophysical Union, 1944", Part 2, 191-389, Washington, Nov., 1944.
- This part of the *Transactions* reports the brief papers and abstracts of papers of particular interest to seismologists. They are quoted by author as sub-references in this issue of the *Bibliography*. See: Schneiderov, Macelwane, Bodle, Ulrich, Murphy, Swainson, Lynch and Dillon, Walter, Newmann, Robertson, Keller, McComb, Gebhardt and Wark, Collins and Leet, Sanchez.
- All of these papers are reprinted in *Earthquake Notes* for March, 1945, reported as No. 5909 of this list.
5907. FRENKEL, J., "On the Theory of Seismic and Seismoelectric Phenomena in a Moist Soil", *Journal of Physics*, Vol. 8, No. 4, 230-241, bib., Academy of Sciences of the USSR., Moscow, 1944.
- The paper is entirely in English and deals with the appearance of electric potential differences between points situated at different distances from the source of elastic waves in the moist soil of surface layers.
5908. FU, C. Y., "On the Origin and Energy of Oscillatory Earthquake Waves", *Bulletin, Seismological Society of America*, Vol. 35, No. 1, 37-42, bib., Berkeley, Jan., 1945.
5909. GEBHARDT, R. E., "Earthquake Notes", Vol. 16, Nos. 2 and 3, 4 pp. + pp. 282-318, 379-380, of the *Transactions of the American Geophysical Union*, 1944, which was reported as No. 5906 of this list.

The papers reprinted from the *Transactions* were outlined in that connection. The first four pages of the *Notes* deal in order with: The Cornwall-Massena Earthquake, Pulkovo Observatory, Deep-focus Earthquake of June 30, 1943 (by William A. Lynch), Earthquake-resistant Bridge, Vertical Vibration Studies at the Golden Gate Bridge, The International Bureau of Seismology, Notes.

- GEBHARDT, R. E., WARK, David, and McCOMB, H. E., "The Seismological Installation at the South Dakota State School of Mines and Technology, Rapid City, South Dakota". See No. 5906 of this list.
- GILMORE, M. H., and CARDER, D. S., "Ground Vibrations". See No. 5899 of this list.
5910. GUTENBERG, Beno, "Amplitudes of Surface Waves and Magnitudes of Shallow Earthquakes", *Bulletin, Seismological Society of America*, Vol. 35, No. 1, 3-12, 6 tab., 1 fig., bib., Berkeley, Jan., 1945.
5911. HEROY, William B., "Oil for the Future", *Economic Geology*, Vol. 39, No. 8, 593-599, Lancaster, Dec., 1944.
- "I can discover no sound reason for believing that the pattern of oil distribution, as regards type of accumulation, is likely to change in the future in any fundamental respect. More refined techniques and more intensive surveys will continue to furnish structural information and more accurate correlations will reveal many additional areas favourable to non-structural accumulation But by far the larger part of the newly discovered oil will continue, as in the past, to occur in traps that can be detected by structural methods of prospecting".
- HINDS, CREAGER and JUSTIN, "Engineering for Dams". See No. 5900 of this list.
5912. HODGSON, Ernest A., "The Cornwall-Massena Earthquake, September 5, 1944," *Journal, Royal Astronomical Society of Canada*, Vol. 39, No. 1, 5-13, 4 pl., Toronto, Jan., 1945.
5913. HODGSON, Ernest A., "Rockburst Research at Lake Shore Mines", *Canadian Mining and Metallurgical Bulletin*, No. 397, Transactions, Vol. 48, 267-269, Montreal, May, 1945.
5914. JERRETT, R.S., "The Acoustic Strain Gauge", *Journal, Scientific Instruments*, Vol. 22, No. 2, 29-34, 11 fig., bib., London, Feb., 1945.
5915. JONES, W. M., "The Use of Differences of Arrival Times of *P* as an Aid to Epicentral Determinations in the South Pacific", *Dominion (N.Z.) Observatory Bulletins*, No. S-72, reprinted from the *New Zealand Journal of Science and Technology*, Vol. 26, No. 3 (Sec. B), 146-154, 6 fig., Wellington, 1944.
- JUSTIN, HINDS and CREAGER, "Engineering for Dams". See No. 5900 of this list.
- KELLER, F., "An Electronic Earthquake Recorder", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 304-309, 7 fig., bib.
- LEET, L. Don, and COLLINS, Mary P., "The Mexican Earthquakes of April 15, 1941, and February 22, 1943". See No. 5906 of this list.
5916. LEGGE, J. A., Jr., and RUPNIK, J. J., "Least Squares Determination of the Velocity Function $V = V_0 + kz$ for any Set of Time-Depth Data", *Geophysica*, Vol. 8, No. 4, 356-361, 2 fig., 1 tab., bib., Menasha, Oct., 1943.

5917. LOUDERBACK, George D., "Walter Harold Kirkbride" (an obituary), *Bulletin, Seismological Society of America*, Vol. 35, No. 1, 1-2, 1 pl., Berkeley, Jan., 1945.
- LYNCH, William A., and DILLON, Vincent, "Characteristics of Alaskan Earthquake Records at Distances of 40° to 70°", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 282-288, 1 tab.
- MACELWANE, James B., S.J., "Progress-Report of the Jesuit Seismological Association for the Years 1941, 1942, and 1943", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), p. 267.
- MALAMPHY, M. C., VALLELY, J. L., and THOENEN, J. R., "Geophysical Survey of Arkansas Bauxite Region". See No. 5932 of this list.
- MCCOMB, H. E., and NEUMANN, Frank, "A General Purpose Vibration Meter". See No. 5906 of this list.
- MCCOMB, H. E., GEBHARDT, R. E., and WARK, David, "The Seismological Installation at the South Dakota State School of Mines and Technology, Rapid City, South Dakota", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 309-313, 6 fig.
5918. MCGUCKIN, Glenn M., "History of the Geophysical Exploration of the Cameron Meadows Dome, Cameron Parish, Louisiana", *Geophysics*, Vol. 10, No. 1, 1-16, 14 fig., Tulsa, Jan., 1945.
- MERTEN, E., and WOODS, J. P., "Seismic Exploration Method" (Patent), U.S. No. 2, 353, 484, issued July 11, 1944. See No. 5923 of this list.
- MINTON, J. P., "Contractor-Expander for Electric Seismographs" (Patent), U.S. No. 2, 354, 420, issued July 25, 1944. See No. 5923 of this list.
- MURPHY, L. M., "On Travel-Time Variations in Central America", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 274-276, 2 tab.
- MUZZEY, D. S., Jr., "Vibration Detector" (Patent), U.S. No. 2,353,920, issued July 18, 1944. See No. 5923 of this list.
5919. NATURE. Brief items of interest to seismologists have appeared in recent issues of Vol. 155 of the above periodical (London, 1945), as follows:
- (1) "Earthquake in Britain", No. 3923, p. 15, Jan. 6.
 - (2) "Earth Tremor of December 30, 1944, in Britain", No. 3926, 106-107, Jan. 27.
 - (3) "Report of Seismological Investigations Committee", *Ibid.*, p. 107.
 - (4) "Astronomical and Geophysical Periodicities", No. 3930, 224-227, Feb. 24.
 - (5) "Vibrations in Telegraph Wires", *Ibid.*, p. 243.
 - (6) "Recent Earthquakes Recorded in the British Isles", No. 3936, p. 423, April 7.
 - (7) "Recent Earthquakes", No. 3937, p. 450, April 14.
 - (8) "The Earthquake of San Juan, January 15, 1944", No. 3942, May 19.

- NEUMANN, Frank, "Period-Amplitude Analyses of Strong-Motion Records", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 290-294, 4 fig.
- NEUMANN, Frank, and McCOMB, H. E., "A General Purpose Vibration Meter", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 313-315, 3 fig.
5920. OBERT, Leonard, and DUVAL, Wilbur, "Microseismic Method of Predicting Rock Failure in Underground Mining", *U.S. Bureau of Mines, Reports of Investigations Series*, Washington, 1945.
- (1) Part I, "General Method", *R.I. Series*, No. 3797, 7 pp., 3 fig., Feb.
- (2) Part II, "Laboratory Experiments", *Ibid.*, No. 3803, 14 pp., 11 fig., March.
- L.O.
5921. OBSERVATORIO DEL SALTO,
- (1) "Estudios realizados por el Observatorio del Salto en Chile sobre los Temblores y Terremotos", Special mimeographed bulletin of the Observatorio del Salto, 1-2, 2 fig., Santiago, Chile, Jan., 1945.
- (2) "Los Terremotos más notables habidos en Chile en los últimos cuatro siglos", *Ibid.*, 3-4, 1 fig.
5922. OXFORD, UNIVERSITY OBSERVATORY, "International Seismological Summary, 1935, January, February, March", 1-126, Oct., 1943.
- PARR, J. O., "Seismic Surveying" (Patent), U.S. No. 2,352,404, issued June 7, 1944. See No. 5923 of this list.
- PARR, J. O., and BAZHAW, W. O., "Seismic Surveying" (Patent). See No. 5923 of this list.
5923. PATENTS. In *Geophysics* (Vol. 10, No. 1, Tulsa, Jan., 1945) appears a list of patents. Those of special interest to seismologists are given on pp. 111-112. They are listed in this *Bibliography* under the names of the patentees, as follows: Parr, Tolk, Merten and Woods, Muzzey, Minton, Ricker, Bazhaw and Parr, Sharpe, Shimek, Ritzmann.
5924. RADIO CRAFT, "Earthquake Recorder", *Radio Craft*, Vol. 16, No. 5, p. 287, 4 fig., New York, Feb., 1945.
- Describes the seismograph designed and operated by F. Keller of New Kensington, Penn. A horizontal pendulum is used for the pick-up. Light reflected from a mirror on the boom falls on a photocell. The electrical output of the cell is amplified sufficiently to operate a galvanometer capable of writing on smoked paper. F.J.H.
- RICKER, N. H., "Seismic Prospecting" (Patent), U.S. No. 2,354,548, issued July 25, 1944. See No. 5923 of this list.
- RITZMANN, O. F., "Electrical Displacement Vibrometer" (Patent), U.S. No. 2,359,245, issued Sept. 26, 1944. See No. 5923 of this list.
- ROBERTSON, Florence, "A Mathematical Analysis of Numerical Integration of Electromagnetic Seismograms", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 294-304, 12 fig.

- RUPNIK, J. J., and LEGGE, J. A., Jr., "Least Squares Determination of the Velocity Function $V = V_0 + kz$ for any set of Time-Depth Data". See No. 5916 of this list.
5925. SALVATORI, Henry, "Early Reflection Seismograph Exploration in California", *Geophysics*, Vol. 10, No. 1, 17-33, 9 fig., bib., Tulsa, Jan., 1945.
- SANCHEZ, Pedro C., "Some Volcanological and Seismological Conclusions regarding Mexico and Central America", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 316-318.
- The above paper was written in Spanish. It was translated by N. H. Heck, who has added a brief note on p. 318.
- SCHNEIDEROV, Anatol James, "New Service of Geodetic Survey", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 240-250, 7 fig., bib.
- A discussion of the elastic-rebound theory of earthquakes and the work to be done by the Geodetic Survey to investigate the mechanics of earthquakes.
5926. SCIENCE. Brief items of interest to seismologists have appeared in recent issues of Vol. 101 of the above periodical (New York, 1945), as follows:
- (1) "The Annual Lecture of the Wayne University Chapter of the Society of the Sigma Xi was Delivered on February 27 by Reverend Dr. James B. Macelwane, S.J., Director of the Institute of Geophysical Technology of St. Louis University. The Subject of the Lecture was 'The Interior of the Earth'", No. 2618, p. 219, March 2.
 - (2) "According to the Daily Press, Washington University, St. Louis, Will Receive under a Decision of the Appellate Court \$1,250,000 for a Geophysical Technological Institute from the Estate of Henry E. Sever, Chicago Publisher. The Decision Reverses a Ruling by Judge Joseph A. Graber, of the Cook County Superior Court, that the Money Should Go to St. Louis University", *Ibid.*, p. 220.
5927. SCIENCE NEWS-LETTER. Brief items of interest to seismologists have appeared in recent issues of Vol. 47 of the above periodical (Washington, 1945), as follows:
- (1) "Year-end Earthquake Located in Baffin Bay", No. 2, p. 25, Jan. 13.
 - (2) "Japan's New Earthquake Centered off Honshu", No. 4, p. 56, Jan. 27.
 - (3) "Prize to Dr. Jaggar", No. 9, p. 134, March 3.
 - (4) "Earthquake Waves used like Radar", *Ibid.*, p. 142.
 - (5) "Japanese Homeland again Shaken by Earthquake", No. 12, p. 184, March 24.
 - (6) "Two Earthquakes Recorded Weekend of April 14-15", No. 17, p. 260, April 28.
 - (7) "Dam Causes Earthquakes", No. 23, p. 355, June 9.
5928. SCIENCE NEWS-LETTER. Brief items of interest to seismologists have appeared in recent issues of Vol. 48 of the above periodical (Washington, 1945), as follows:
- (1) "Double Earthquakes Recorded in California", No. 1, p. 6, July 7.
- SHARPE, J. A., "Seismic Prospecting" (Patent), U.S. No. 2,355,826, issued August 15, 1944. See No. 5923 of this list.
- SHIMEK, E. J., "Master Control for Electric Seismographs" (Patent), U.S. No. 2,317,334, issued Aug. 22, 1944. See No. 5923 of this list.

5929. SLOAT, John, "How NOT to Find an Oil Field", *Geophysics*, Vol. 9, No. 4, 431-445, 7 fig., bib., Menasha, Oct., 1944.
5930. STONELEY, R., "Earthquakes", an address listed among the series "Popular Astronomy for the Forces", and printed on pp. 30-32, of *The Observatory*, Vol. 66, No. 824, London, Feb., 1945.
- SWAINSON, O. W., "Earthquakes of Southern Mexico and Central America" with special reference to Professor Wm. H. Hobb's theory on "New Volcanoes and New Mountain Range", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 277-281, 3 fig., bib.
5931. SWAN, B. G., "Index of Wells Shot for Velocity", *Geophysics*, Vol. 9, No. 4, 540-559, 1 tab., Menasha, Oct., 1944.
- A list of 811 wells in which seismic velocity surveys have been made.
5932. THOENEN, J. R., MALAMPHY, M. C., and VALLELY, J. L., "Geophysical Survey of Arkansas Bauxite Region", *U.S. Bureau of Mines, Reports of Investigations*, No. 3791, 49 pp., 20 fig., tables, Washington, Feb., 1945.
- TOLK, J. F., "Seismic Surveying" (Patent), U.S. No. 2,352,869, issued July 4, 1944. See No. 5923 of this list.
- ULRICH, Franklin P., "A Co-operative Seismological Program with South and Central America", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), 271-274, 1 fig.
5933. U.S. ARMY ENGINEERS, "Seismic and Resistivity Geophysical Exploration Methods", *Technical Memoranda* (War Department, U.S. Army Engineers, Mississippi River Commission), No. 198-1, 90 pp., Vicksburg, Miss., Jan. 20, 1943.
- A review by Dart Wantland appears on p. 565 of *Mines Magazine*, Vol. 34, No. 10, Golden, Oct., 1944.
- VALLELY, J. L., THOENEN, J. R., and MALAMPHY, M. C., "Geophysical Survey of Arkansas Bauxite Region". See No. 5932 of this list.
- WALTER, Edward J., "An Extension of the Method of Numerical Integration of Seismograms to Include a Third Integration", *Transactions, American Geophysical Union* (reported as No. 5906 of this list), p. 289, 1 fig.
- WARK, David, McCOMB, H. E., and GEBHARDT, R. E., "The Seismological Installation at the South Dakota State School of Mines and Technology, Rapid City, South Dakota". See No. 5906 of this list.
5934. WOLF, Alfred, "Motion of a Rigid Sphere in an Acoustic Wave Field", *Geophysics*, Vol. 10, No. 1, 91-109, 1 fig., Tulsa, Jan., 1945.
- WOODS, J. P., and MERTEN, E., "Seismic Exploration Method" (Patent). See No. 5923 of this list.

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

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