

CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
DOMINION OBSERVATORIES

PUBLICATIONS

OF THE

Dominion Observatory
OTTAWA

VOLUME XXII

Bibliography of Seismology

No. 1

Items 9838 - 10070

January - June, 1957

BY

W. E. T. SMITH

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.,
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1958

900-1958-1296

This document was produced
by scanning the original publication.

Ce document est le produit d'une
numérisation par balayage
de la publication originale.

Bibliography of Seismology

January to June, 1957

LIST OF JOURNALS

The following list gives the titles of publications regularly searched for items to be entered in the *Bibliography of Seismology*.

Authors whose articles in seismology are published elsewhere, and readers noting articles of interest to seismologists in journals not listed below, are invited to collaborate in the preparation of the *Bibliography* by forwarding the necessary information about the papers to the Dominion Astronomer, Dominion Observatory, attention Seismological Division, Department of Mines and Technical Surveys, Ottawa, Canada.

The assistance of collaborators will be acknowledged in the text. Collaborators' report forms will be forwarded to interested persons on request.

<i>Advancement of Science</i>	London
<i>Advances in Physics</i>	London
<i>American Journal of Science</i>	New Haven
<i>Anales del Instituto de Geofisica</i>	Mexico
<i>Annales de Géophysique</i>	Paris
<i>Annali di Geofisica</i>	Rome
<i>Annotated Bibliography of Economic Geology</i>	Urbana
<i>Arkiv för Geofysik</i>	Stockholm
<i>Australian Journal of Physics</i>	Melbourne
<i>Boletin del Centro de Documentacion Cientifica y Technica</i>	Mexico
<i>British Journal of Applied Physics</i>	London
<i>Bulletin Géodésique Internationale</i>	Paris
<i>Bulletin of the Earthquake Research Institute of Tokyo University</i>	Tokyo
<i>Bulletin of the Geographical Survey Institute</i>	Chiba
<i>Bulletin of the Geological Society of America</i>	New York
<i>Bulletin of the Seismological Society of America</i>	Berkeley
<i>Canadian Geophysical Bulletin</i>	Ottawa
<i>Disaster Prevention Research Institute Bulletin</i>	Kyoto
<i>Discovery</i>	Norwich
<i>Earthquake Notes</i>	Washington
<i>Economic Geology</i>	Lancaster
<i>Endeavour</i>	London
<i>Geofisica Pura e Applicata</i>	Milan
<i>Geofysikalni Sbornik, Nakladatelstvi Ceskoslovenske Akademie Ved</i>	Prague
<i>Geophysical Abstracts</i>	Washington

<i>Geophysical Journal</i>	London
<i>Geophysical Magazine</i>	Tokyo
<i>Geophysical Notes of the Geophysical Institute, Tokyo University</i>	Tokyo
<i>Geophysical Prospecting</i>	The Hague
<i>Geofizikai Közlemények</i>	Budapest
<i>Geophysics</i>	Menasha
<i>Gerlands Beiträge zur Geophysik</i>	Leipzig
<i>*Indian Journal of Meteorology and Geophysics</i>	New Delhi
<i>Journal of Geology</i>	Chicago
<i>Journal of Geophysical Research</i>	Washington
<i>Journal of Physics of the Earth</i>	Tokyo
<i>Journal of Research of the National Bureau of Standards</i>	Washington
<i>Journal of the Royal Astronomical Society of Canada</i>	Toronto
<i>Journal of the Washington Academy of Sciences</i>	Washington
<i>Nature</i>	London
<i>Papers in Meteorology and Geophysics</i>	Tokyo
<i>Philosophical Magazine</i>	London
<i>Philosophical Transactions of the Royal Society of London</i>	London
<i>Physics Abstracts</i>	London
<i>Proceedings of the National Academy of Sciences of U.S.A.</i>	Washington
<i>Proceedings of the National Institute of Sciences of India</i>	New Delhi
<i>Proceedings of the Physical Society of London, Section B</i>	London
<i>Proceedings of the Royal Society of London, Series A (Mathematical and Physical Sciences)</i>	London
<i>Publications of the Dominion Observatory</i>	Ottawa
<i>Quarterly Journal of the Geological Society of London</i>	London
<i>Quarterly Journal of Seismology</i>	Tokyo
<i>Revista de Geofísica</i>	Madrid
<i>Revue pour l'étude des Calamites</i>	Geneva
<i>Science</i>	Washington
<i>Science News Letter</i>	Washington
<i>Science Progress</i>	London
<i>Science Reports of the Tōhoku University, Geophysics</i>	Sendai
<i>Scientific American</i>	New York
<i>Studia Geophysica et Geodaetica</i>	Prague
<i>Tellus</i>	Stockholm
<i>Transactions of the American Geophysical Union</i>	Washington
<i>Transactions of the Royal Society of Canada, Section IV</i>	Ottawa
<i>Travaux Scientifiques, Série A</i>	Strasbourg
<i>Zeitschrift für Geophysik</i>	Würzburg
<i>Zisin, Journal of the Seismological Society of Japan, Second Series</i>	Tokyo

*Journal searched by Mr. V. F. Jenneman, P.O. Box 371, Carlsbad, New Mexico, U.S.A.

9838. ADLUNG, A., "Seismische Beobachtung bei Kammersprengungen," *Gerlands Beiträge zur Geophysik*, Band 65, Heft 1, 1-10, 6 fig., Leipzig, 1955.
9839. AGOSTINHO, José, "Relato da sesmicidade dos Açores e historia sesmica do arquipélago com vista principalmente a delimitacao das zonas onde sao de aconselhamento maiores precaucoes ante-sesmicas nos construcoes," *Memorias da ordem dos engenheiros*, No. 108, 4 pages, 1955.
Trans. A.G.U.
9840. AGOSTINHO, José, "Os abalos sesmicos na ilha terceira em dezembro de 1950 e em janeiro de 1951," *Memorias da ordem dos engenheiros*, No. 115, 6 pages, 1955.
Trans. A.G.U.
9841. AKIMA, T. S., and NAGAMUNE, T. S., "Dispersion of Seismic Surface Waves and the Structure of Continents and Oceans," *Travaux Scientifiques, Série A*, Fasc. 19, 223-228, 7 fig., bib., Strasbourg, 1956.
9842. ALLEN, C. R., "The San Andreas Fault," *Engineering and Science Monthly*, May, 1957.
Reprinted as Contribution No. 835 of the Division of Geological Sciences of the California Institute of Technology, Pasadena, 1957.
- ALLEN, C. R., NORDQUIST, J. M., and RICHTER, C. F., "Desert Hot Springs Earthquake of December 4, 1948, and Its Aftershocks." See No. 10003 of this list.
- ALLEN, J. F. L., COCK, J. Irma, and HODGSON, J. H., "Tables of Extended Distances for S, SS and sS." See No. 9926 of this list.
- ANDREWS, F., and GUTENBERG, B., "Bibliography on Microseisms." See No. 9911 of this list.
- ANDREWS, F., and GUTENBERG, B., "Bibliography on Microseisms." See No. 9912 of this list.
- ANGONA, F. A., and WHITE, J. E., "Elastic Wave Velocities in Laminated Media." See No. 10063 of this list.
9843. ANNAU, E., and POSGAY, K., "Agitation of the Soil," *Geofiz. Közl.*, Vol. 5, No. 4, 3-6, 1956.
Trans. A.G.U.
- ANNAU, E., and POSGAY, K., "Diffraction of Seismic Waves." See No. 9994 of this list.
- AOKI, H., and IIDA, K., "On the Visco-elastic Waves Radiated from a Spherical Cavity in Elastico-viscous Medium." See No. 9930 of this list.
9844. ASADA, T., SUZUKI, Z., and TOMODA, Y., "On Frequency Distribution of Seismic Magnitude," *Travaux Scientifiques, Série A*, Fasc. 19, 95-98, bib., Strasbourg, 1956.
- BALAKRISHNA, S., and KRISHNAMURTHI, M., "Attenuation of Sound in Rocks." See No. 9946 of this list.

9845. BANERJEE, K. N., "Transients in the Records of Seismic Body Waves," *J. Tech., Bengal Eng. Coll.*, Vol. 1, 49-56, 1956.
Trans. A.G.U.

9846. BANERJI, S. K., "Earthquakes in the Himalayan Region," 64 pages, 15 fig. Price \$1.00; 7 sh. 6 d. (foreign, including postage) Sri S. N. Sen, M.Sc., Registrar, Indian Association for the Cultivation of Science, Jadavpur, Calcutta 32, March, 1957.

On page one the title has been expanded to "Earthquakes in the Himalayan Region and Their Causative Mechanism." This is a better title, as the book is much more than a list of principal earthquakes of the area.

Causes and mechanisms of both shallow and deep-focus earthquakes are considered. Gutenberg's modification of Wegener's theory of "Continental Drift" is discussed along with such concepts as thermal contraction, isostatic compensation, mountain roots, post-glacial uplift, etc.

The monograph is based on a series of lectures given by the author while holding a Ripon Professorship of the Indian Association for the Cultivation of Science. It has been liberally illustrated and contains an index and an extensive bibliography.

W.E.T.S.

9847. BÅTH, Markus, "The Problem of Earthquake Magnitude Determination," *Travaux Scientifiques, Série A*, Fasc. 19, 5-93, 17 tab., bib., Strasbourg, 1956.

9848. BÅTH, Markus, "An Earthquake Catalogue for Fennoscandia for the Years 1891-1950," *Sveriges Geol. Vnd.*, Vol. 50, 52 pages, 1956.

9849. BEAUFILS, Y., "Étude des ondes superficielles dans les enregistrements séismographiques des explosions de Champagne, October, 1952," *Travaux Scientifiques, Série A*, Fasc. 19, 339-343, 2 fig., Strasbourg, 1956.

9850. BEAUFILS, Y., BERNARD, P., COULOMB, J., DUCLAUX, F., LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., ROTHÉ, J. P., and UTZMANN, R., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949," *Travaux Scientifiques, Série A*, Fasc. 19, 325-326, Strasbourg, 1956.

9851. BEAUFILS, Y., COULOMB, J., GENESLAY, R., JOBERT, G., LABROUSTE, Y., PETERSCHMITT, E., and ROTHÉ, J. P., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952," *Travaux Scientifiques, Série A*, Fasc. 19, 327-329, Strasbourg 1956.

- BEAUFILS, Y., and LABROUSTE, Y., "Refractions multiples dans les enregistrements séismographiques des explosions de Champagne, octobre, 1952." See No. 9947 of this list.

9852. BENIOFF, H., "Earthquake Seismographs and Associated Instruments," *Advances in Geophysics*, Vol. 2, 219-275, 1955.

9853. BENIOFF, H., GUTENBERG, B., PRESS, F., and RICHTER, C. F., "Progress Report, Seismological Laboratory, California Institute of Technology, 1956," *Transactions, American Geophysical Union*, Vol. 38, No. 2, 248-254, 2 fig., bib., Washington, April, 1957.
- BENTLEY, Charles, and OLIVER, Jack, "Rayleigh Waves Incident upon a Corner." See No. 9982 of this list.
9854. BEREZA, G. V., SLUTSKOVSKIY, A. I., and POLSHKOV, M. K., "Frequency Analysis of Seismic Vibrations," (in Russian), *Prikladnaya Geofiz.*, Vol. II, 92-123, 1954.
- BERNARD, P., COULOMB, J., DUCLAUX, F., LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., ROTHÉ, J. P., UTZMANN, R., and BEAUFILS, Y., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
9855. BERSON, I. S., "Effective Velocities in the Case of Continuous Variation with Depth of the True Velocities of Seismic Waves," (in Russian), *Akad. Nauk SSSR Izv. Ser. Geofiz.*, No. 4, 299-302, 1955.
9856. BERSON, I. S., "The Change in the Predominant Frequency of Seismic Waves with Increasing Distance from the Source," (in Russian), *Akad. Nauk SSSR Izv. Ser. Geofiz.*, No. 1, 3-22, 1956.
- BERSON, I. S., and GAMBURTSEV, G. A., "High-frequency Seismic Surveying." See No. 9891 of this list.
9857. BIDER, Max, "Die Erdbebentätigkeit in Basel und Umgebung seit dem grossen Erdbeben," *Basler Jb.*, 17-44, 1956. Trans. A.G.U.
- BLACK, R. A., and PAKISER, L. C., "Exploring for Ancient Channels with the Refraction Seismograph." See No. 9987 of this list.
9858. BRAZEE, R. J., "Earth Tides and Earthquakes," *Earthquake Notes*, Vol. 28, No. 1, 1-3, 4 fig., bib., Washington, March, 1957.
9859. BRUSTAD, J., "Multiple Reflection in Offshore Seismic Operations," (abstract), *Geophysics*, Vol. 22, No. 2, page 498, Menasha, April, 1957.
9860. BUCY, J. F., HALL, H. K., and JONES, H. J., "The SeisMAC Data Processing System," (abstract), *Geophysics*, Vol. 22, No. 2, page 505, Menasha, April, 1957.
9861. BULLEN, K. E., "Features of Seismic pP and PP Rays," *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 2, 49-59, 9 fig., 1 tab., London, Oct., 1955.
9862. BULLEN, K. E., "The Influence of Temperature Gradient and Variation of Composition in the Mantle on the Computation Density Values in Earth Model A," *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 4, 214-217, bib., London, Aug., 1956.
- BULLEN, K. E., and BURKE-GAFFNEY, T. N., "Seismological and Related Aspects of the 1954 Hydrogen Bomb Explosions." See No. 9863 of this list.

9863. BURKE-GAFFNEY, T. N., and BULLEN, K. E., "Seismological and Related Aspects of the 1954 Hydrogen Bomb Explosions," *Australian Journal of Physics*, Vol. 10, No. 1, 130-136, Melbourne, March, 1957.
9864. BYERLY, Perry, "Subcontinental Structure in the Light of Seismological Evidence," *Advances in Geophysics*, Vol. 3, 105-152, 16 fig., 92 references, New York, 1956.
9865. BYERLY, Perry, "Seismicity of the Western United States", *Proceedings of the World Conference on Earthquake Engineering* (8 pages), Berkeley, 1956. The complete Proceedings are available from Karl V. Steinbrugge, Secretary, Earthquake Engineering Research Institute, Room 1039, 465 California Street, San Francisco 4, California, Price \$8.50.
9866. BYERLY, Perry, "Seismology and Gravity in the I.G.Y. Program," (abstract) *Geophysics*, Vol. 22, No. 2, page 502, Menasha, April, 1957.
9867. BYERLY, Perry, and DE NOYER, John, "Depth of Faulting," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1763, New York, Dec., 1956.
9868. CALIFORNIA DIVISION OF MINES, "Earthquakes and Faults in California," *Min. Inf. Service*, Vol. 9, 1-5, 1956. Trans. A.G.U.
9869. CALOI, P., and DEROSI-DIAMANTI, Emma, "Il fato-clinografo a pendolo orizzontale nella teoria e nell'applicazione," *L'Energia Elettrica*, Vol. 33, No. 10, 16 pages, 1956. Trans. A.G.U.
9870. CARDER, D. S., and WERNER, F. H., "Reservoir Loading and Local Earthquakes in the Lake Mead Area," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1763, Dec., 1956.
9871. CHOPRA, S. D., "The Range of Existence of Stonely Waves in an Internal Stratum. I. Symmetric Vibrations," *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 5, 256-270, 6 fig., bib., London, April, 1957.
9872. CHOUDHURY, M. A., "Profondeur de la discontinuité de Mohorovičić dans la région de l'Hindou-Kouch," *C-R Akad. Sci.*, Vol. 242, 2755-2757, 1956.
An abstract appears in *Bul. Sign. C.N.R.S.* Part 1, Vol. 17, page 3685, 1956.
- CHRISTIE, J. M., and MCINTYRE, D. B., "Nature of the Faulting in Large Earthquakes." See No. 9956 of this list.
- COCK, J. Irma, HODGSON, J. H., and ALLEN, J. F. J., "Tables of Extended Distances for *S*, *SS* and *sS*." See No. 9926 of this list.
- COULOMB, J., DUCLAUX, F., LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., ROTHÉ, J. P., UTZMANN, R., BEAUFILS, Y., and BERNARD, P., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.

- 9872 COULOMB, J., GENESLAY, R., JOBERT, G., LABROUSTE, Y., PETERSCHMITT, E., ROTHÉ, J. P., and BEAUFILS, Y., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.
9873. CRARY, A. P., "Seismology and the U. S. IGY Program," *Sci. Mon.*, Vol. 83, 225-231, 1956. Trans. A.G.U.
9874. CREASE, J., "Long Waves on a Rotating Earth in the Presence of a Semi-infinite Barrier," *J. Fluid Mech.*, Vol. 1, 89-96, 1956. An abstract appears in *Appl. Mech. Rev.*, Vol. 9, 550-551, 1956. Trans. A.G.U.
9875. CROWLEY, F. A., and HANSON, Roy E., "Seismic Measurements in Permafrost Areas of Interior Alaska," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1806, New York, Dec., 1956.
9876. DEBRACH, J., "Sur quelques alignements séismiques remarquables du Maroc. Essai d'interprétation tectonique," *Travaux Scientifiques, Série A*, Fasc. 19, 307-313, 1 fig., bib., Strasbourg, 1956.
9877. DE BREMAECKER, J. Cl., "Behaviour of Rayleigh Waves Near Corners," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1764, New York, Dec., 1956.
9878. DE BREMAECKER, J. Cl., "Microseisms Near Lake Kivu, Eastern Belgian Congo," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1765, New York, Dec., 1956.
- DE NOYER, John and BYERLY, Perry, "Depth of Faulting." See No. 9867 of this list.
- DEROSI-DIAMANTI, Emma, and CALOI, P., "Il fato-clinografo a pendolo orizzontale nella teoria e nell'applicazione." See No. 9869 of this list.
9879. DILGAN, H., and HAGIWARA, T., "Le tremblement de terre de Yenice (18 mars 1953)," *Travaux Scientifiques, Série A.*, Fasc. 19, 287-295, 9 fig., Strasbourg, 1956.
- DINGER, J. E., and KAMMER, E. W., "Hurricane Swell as a Generator of Microseisms." See No. 9933 of this list.
9880. DIX, C. Hewitt, "Plane Sources of Seismic Waves," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1765, New York, Dec., 1956.
- D'JAKONOV, B. P., TICHONOV, A. N., IVANOV, A. G., and TROICKAJA, V. A., "Über den Zusammenhang von Erdströmen a und Erdbeben." See No. 10047 of this list.
9881. DOBRIN, M. B., and PERKINS, B., "Seismic Studies of Bikini Atoll," *Jr. U.S. Geol. Surv. Prof.*, Paper 260-J, 487-505, 1954.

9882. DOHR, G., "Perioden der ersten Vorläufer in Göttinger Seismogrammen," *Zeitschrift für Geophysik*, Jahrgang 21, Heft 3, 165-174, 4 fig., bib., Würzburg, 1955.
9883. DOLLAR, A. T. J., "The Midlands Earthquake of February 11, 1957," *Nature* No. 4558, Vol. 179, 507-510, bib., London, March 9, 1957.
9884. DROSTE, Z., "The Angular Distribution of the Energy Density in Seismic Waves," *Acta Geophys. Poland*, Vol. 4, 215-225, 1956. Trans. A.G.U.
9885. DRYSDALE, W. S., "Firth of Forth Seismic Refraction Survey," *Colliery Guardian*, Vol. 191, No. 4935, 379-384, 1955.
- DUCLAUX, F., LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., ROTHE, J. P., UTZMANN, R., BEAUFILS, Y., BERNARD, P., and COULOMB, J., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
- EDWARDS, R. S., JOHNSON, H. R., OFFICER, C. B., and EWING, J. I., "Geophysical Investigations in the Eastern Caribbean: Venezuelan Basin, Antilles Island Arc, and Puerto Rico Trench." See No. 9978 of this list.
- EWING, J. I., EDWARDS, R. S., JOHNSON, H. R., and OFFICER, C. B., "Geophysical Investigations in the Eastern Caribbean: Venezuelan Basin, Antilles Island Arc, and Puerto Rico Trench." See No. 9978 of this list.
- EWING, Maurice, and OLIVER, Jack, "Microseisms in the Eleven-to-EIGHTEEN-second Period Range." See No. 9983 of this list.
9886. EWING, Maurice, and PRESS, Frank, "Surface Waves and Guided Waves," *Handbuch der Physik*, Band 47, 119-139, 19 fig., bib., Berlin, 1956.
9887. EWING, Maurice, and PRESS, Frank, "Seismic Prospecting," *Handbuch der Physik*, Band 47, 153-168, 19 fig., bib., Berlin, 1956.
- EWING, Maurice, and SHURBET, D. H., "Microseisms with Periods of Seven to Ten Seconds Recorded at Bermuda." See No. 10031 of this list.
- FERENC, G., LÓRÁND, S., and JÁNOS, G., "Development of Pressure Wave by Air Shooting." See No. 9932 of this list.
9888. FÖRTSCH, O., "Beiträge zur Ausbreitung elastischer Oberflächenwellen," *Zeitschrift für Geophysik*, 59-67, 4 fig., bib., Würzburg, 1953.
9889. FÖRTSCH, O., and VIDAL, H., "Die Ergebnisse der seismischen messungen auf dem Hintereisferner in den Öltaler Alpen 1954," *Gerlands Beiträge zur Geophysik*, Band 65, Heft 2, 8 fig., Leipzig, 1956.
- GALANOPoulos, A., and GEORGALAS, G., "Das grosse Erdbeben der Chalkidike vom 26 September 1932." See No. 9894 of this list.

9890. GAMBURTSEV, G. A., "On Some New Methods of Seismological Research," *Travaux Scientifiques, Série A.*, Fasc. 19, 373-381, 2 fig., Strasbourg, 1956.
9891. GAMBURTSEV, G. A., and BERSON, I. S., "High-frequency Seismic Surveying," (in Russian), *Akad. Nauk. SSSR, Dokl.*, Vol. 101, No. 5, 841-844, 1955.
9892. GEDDES, A. E. M., "Note on Large Microseisms Recorded at Aberdeen on 1954 December 9," *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 5, 219-227, 3 fig., 3 tab., London, April, 1957.
- GENESLAY, R., JOBERT, G., LABROUSTE, Y., PETERSCHMITT, E., ROTHÉ, J. P., BEAUFILS, Y., and COULOMB, J., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.
9893. GENESLAY, R., LABROUSTE, Y., and ROTHÉ, J. P., "Réflexions à grande profondeur dans les grosses explosions (Champagne, octobre 1952)," *Travaux Scientifiques, Série A*, Fasc. 19, 331-334, 2 fig., Strasbourg, 1956.
9894. GEORGALAS, G., and GALANOPoulos, A., "Das grosse Erdbeben der Chalkidike vom 26 September 1932," *Bulletin of the Geological Society of Greece*, Vol. 1, No. 1, 64 pages, 23 pl., bib., 1953.
9895. GILMORE, M. H., "Microseisms Used in Hurricane Forecasting," *Travaux Scientifiques, Série A*, Fasc. 19, 203-215, 7 fig., Strasbourg, 1956.
9896. GILVARRY, J. J., "Temperatures in the Earth's Interior," *Journal of Atmospheric and Terrestrial Physics*, Vol. 10, No. 2, 84-95, 4 fig., 2 tab., bib., London, Feb., 1957.
9897. GIORGI, M., and ROSINI, E., "Les microséismes d'origine tyrrhénienne," *Travaux Scientifiques, Série A*, Fasc. 19, 197-202, 1 fig., Strasbourg, 1956.
9898. GLOUGH, R. W., "Earthquake Forces in a Tall Building," *Civ. Eng.*, Vol. 26, 54-55, 1956.
Trans. A.G.U.
9899. GORSHKOV, G. P., "General Survey of Seismicity of the Territory of the USSR," *Travaux Scientifiques, Série A*, Fasc. 19, 257-259, Strasbourg, 1956.
9900. GORSHKOV, G. P., "Observations séismiques dans le village de Klutchi (du 28 août au 31 décembre 1948)," (in Russian) *Bul. vulkanol. Stancii, SSSR*, No. 19, 14-31, 1953.
An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, Page 1918, 1956.
Trans. A.G.U.
9901. GRANNEMANN, W. W., "Diffraction of a Longitudinal Pulse from a Wedge in a Solid," *Journal of the Acoustical Society of America*, Vol. 28, 494-497, 1956.
A review by Franklin K. Levin appears in *Geophysics*, Vol. 22, No. 1, page 147, Menasha, Jan., 1957.

9902. GRANT, H. L., "Field Equipment, Techniques, and Interpretive Procedures of the Offshore Seismic Crew," (abstract), *Geophysics*, Vol. 22, No. 2, Page 496, Menasha, April, 1957.
9903. GRAY, G. W., "The Lamont Geological Observatory," *Scientific American*, 6 pages, 10 pl., Dec., 1956. Reprinted as Contribution No. 221, of the Lamont Geological Observatory, Palisades, N.Y.
9904. GRYGLEWICZ, Z., and WOJTCZAK, B., "Seismological Activity in 1954," (in Polish), *Acta Geophys. Pol.*, Vol. 3, 167-175, 1955. Trans. A.G.U.
9905. GUHA, S. K., RAM, G., and RAO, G. V., "Trigger Causes in Earth Movements," *Travaux Scientifiques, Série A*, Fasc. 19, 345-355, 3 fig., bib., Strasbourg, 1956.
9906. GURUICH, I. I., "Shaking Table for Testing Seismometers," (in Russian) *Prikladnaya Geofiz.*, Vol. 11, 142-151, 1954.
9907. GUTENBERG, Beno, "Untersuchungen zur Bodenunruhe in Südkalifornien," *Zeitschrift für Geophysik*, Jahrgang 21, Heft 4/5, 177-189, 8 fig., bib., Würzburg, 1955.
9908. GUTENBERG, Beno, "Great Earthquakes, 1896 to 1903," *Transactions, American Geophysical Union*, Vol. 37, No. 5, 608-614, 1 fig., 5 tab., bib., Washington, Oct., 1956.
9909. GUTENBERG, Beno, "Effects of Ground on Shaking in Earthquakes," *Transactions, American Geophysical Union*, Vol. 37, No. 6, 757-760, 2 fig., Washington, Dec., 1956.
9910. GUTENBERG, Beno, "Energy of Earthquakes," (abstract) *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1769, New York, Dec., 1956.
9911. GUTENBERG, B., and ANDREWS, F., "Bibliography on Microseisms," Second edition, revised and enlarged. *California Institute of Technology, Division of Earth Sciences*, Contribution No. 602, 1-94, 468 items, Seismological Laboratory, 220 North San Rafael Avenue, Pasadena 2, Cal., Sept., 1952.
9912. GUTENBERG, B., and ANDREWS, F., "Bibliography on Microseisms," Part 2 of second edition, revised and enlarged. *California Institute of Technology, Division of Geological Sciences*, Contribution No. 759, 95-134, items 469-600, Seismological Laboratory, 220 North San Rafael Avenue, Pasadena 2, Cal., Jan., 1956.
- GUTENBERG, B., and PRESS, F., "Channel P Waves II_g in the Earth's Crust." See No. 9998 of this list.
- GUTENBERG, B., PRESS, F., RICHTER, C. F., and BENIOFF, H., "Progress Report, Seismological Laboratory, California Institute of Technology, 1956." See No. 9853 of this list.
9913. GUTENBERG, Beno, and RICHTER, C. F., "Magnitude and Energy of Earthquakes," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, Page 1769, New York, Dec., 1956.

9914. GYULA, Kilczu, "Possibility of the Detection of Shot and Inverse Strata by Means of Seismic Refraction Measurement," (in Hungarian with English abstract), *Geofiz. Közl.*, Vol. 4, No. 2, 54-64, 1955. Trans. A.G.U.
9915. HADLEY, C. F., "Display of Magnetically Recorded Seismic Data," (abstract), *Geophysics*, Vol. 22, No. 2, page 497, Menasha, April, 1957.
- HAGIWARA, T., and DILGAN, H., "Le tremblement de terre de Yenice (18 mars 1953)." See No. 9879 of this list.
9916. HAHN, Evamaria, "Die Anwendung der seismischen Magnitude und der Seismizität au neuzeitliche Erschütterungsmesstechnik bei Verkehr und in der Industrie," *Freiberger Forschungshefts, C 25, Geophysik*, 63 pages, 1956. Trans. A.G.U.
9917. HALES, A. L., "The Interior of the Earth," *Transactions of the South African Institute of Electrical Engineers*, Vol. 47, No. 8, 248-257, 8 fig., 1956.
- HALL, H. K., JONES, H. J., and BUCY, J. F., "The SeisMAC Data Processing System." See No. 9860 of this list.
- HANSON, Roy E., and CROWLEY, F. A., "Seismic Measurements in Permafrost Areas of Interior Alaska." See No. 9875 of this list.
9918. HARDTWIG, E., "Grosssprenzung und Mikroseismick," *Annali di Geofisica*, Vol. 9, No. 3, 273-284, 2 fig., bib., Rome, July, 1956.
9919. HATANAKA, M., "On the Earthquake Resistant Properties of Arch Dams," (Japanese with English Summary), *Bulletin of the Disaster Prevention Research Institute*, (Memorial issue of the fifth anniversary), 125-134, 3 tab., 8 fig., Kyoto, Nov., 1956.
9920. HATANAKA, M., "On the Vibration Characteristics of Moving Coil Type Vibrograph," (in Japanese with English Abstract), *Bulletin of the Disaster Prevention Research Institute*, (Memorial issue of the fifth anniversary), 144-152, Kyoto, Nov., 1956.
9921. HEAP, W. O., "Automatic Methods of Computing Wave Front and Ray Paths of the Propagation of Seismic Energy with Applications," (abstract), *Geophysics*, Vol. 22, No. 2, page 506, Menasha, April, 1957.
9922. HECHT, F., HELMS, H., and KEHRER, W., "Reflection-seismic Exploration of Schleswig-Holstein," *Proceedings of the 4th World Petroleum Congress, Section I*, page 715, June, 1955.
- HELMS, H., KEHRER, W., and HECHT, F., "Reflection-seismic Exploration of Schleswig-Holstein." See No. 9922 of this list.
9923. HERMONT, A. J., "Design Principles for Seismic Reflection Amplifiers," (Abstract), *Geophysics*, Vol. 22, No. 2, page 497, Menasha, April, 1957.

9924. HILLER, H., and RUPRECHT, L., "Seismic Investigations in Coal Mining," (in German), *Gluckauf*, Vol. 91, No. 37-38, 1039-1045, 1945.
- HOCHSTRASSER, Urs., and STONELEY, Robert, "The Attenuation of Rayleigh Waves with Depth in a Medium with Two Surface Layers." See No. 10038 of this list.
9925. HODGSON, J. H., "Nature of Faulting in Large Earthquakes," *Bulletin, Geological Society of America*, Vol. 68, No. 5, 611-644, 22 fig., New York, May, 1957.
An abstract appears in *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1771, New York, Dec., 1956.
9926. HODGSON, J. H., ALLEN, J. F. J., and COCK, J. Irma, "Tables of Extended Distances for *S*, *SS* and *sS*," *Publications of the Dominion Observatory, Ottawa*, Vol. 18, No. 6, 103-116, Ottawa, 1956.
9927. HORTON, C. W., "The Structure of the Noise Background of a Seismogram II," *Geophysics*, Vol. 22, No. 2, 261-667, 4 fig., 2 tab., bib., Menasha, April, 1957.
— HOSOYAMA K., ITO, Y., and NISHIMURA, E., "Micro-Tilting Motion of the Ground." See No. 9972 of this list.
9928. HUGHES, D. S., and MAURETTE, Christian, "Variations of Elastic Wave Velocities in Basic Igneous Rocks with Pressure and Temperature," *Geophysics*, Vol. 22, No. 1, 23-31, 9 tab., bib., Menasha, Jan., 1957.
9929. IIDA, K., "Earthquakes Accompanied by Tsunamis Occurring Under the Sea off the Islands of Japan," *J. Earth Sci.*, Vol. 4, 1-43, Nagoya Univ., 1956.
Trans. A.G.U.
9930. IIDA, K., and AOKI, H., "On the Visco-elastic Waves Radiated from a Spherical Cavity in Elastico-viscous Medium," *J. Earth Sci.*, Vol. 3, 105-126, Nagoya University, 1955.
Trans. A.G.U.
- ITO, Y., NISHIMURA, E., and HOSOYAMA, K., "Micro-Tilting Motion of the Ground." See No. 9972 of this list.
- IVANOV, A. G., TROICKAJA, V. A., D'JAKONOV, B. P., and TICHONOV, A. N., "Über den Zusammenhang von Erdströmen und Erdbeben." See No. 10047 of this list.
- IWAI, Y., and WADATI, K., "The Minute Investigation of Seismicity in Japan (2nd paper)." See No. 10059 of this list.
9931. IYER, H. M., and NANDA, J. N., "Microseisms at Cochin," *Travaux Scientifiques, Série A*, Fasc. 19, 193-196, 4 fig., Strasbourg, 1956.
9932. JÁNOS, G., FERENC, G., and LÓRÁND, S., "Development of Pressure Wave by Air Shooting," (in Hungarian with English abstract), *Geofiz. Közl.*, Vol. 4, No. 2, 41-44, 1955.
Trans. A.G.U.

- 9932 JOBERT, G., LABROUSTE, Y., PETERSCHMITT, E., ROTHÉ, J. P., BEAUFILS, Y., COULOMB, J., and GENESLAY, R., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.
- JOHNSON, H. R., OFFICER, C. B., EWING, J. I., and EDWARDS, R. S., "Geophysical Investigations in the Eastern Caribbean: Venezuelan Basin, Antilles Island Arc, and Puerto Rico Trench." See No. 9978 of this list.
- JONES, H. J., BUCY, J. F., and HALL, H. K., "The SeisMAC Data Processing System." See No. 9860 of this list.
9933. KAMMER, E. W., and DINGER, J. E., "Hurricane Swell as a Generator of Microseisms," *Journal of Meteorology*, Vol. 8, 347-353, Lancaster, 1951.
9934. KARNIK, V., "Les vitesses des ondes séismiques excitées par les explosions industrielles en Bohême," *Travaux Scientifiques, Série A*, Fasc. 19, 319-324, 3 fig., bib., Strasbourg, 1956.
- KATO, K., and NOGUCHI, T., "Un nouveau détecteur pour les recherches séismiques des dépôts de rebuts." See No. 9974 of this list.
9935. KAWASUMI, H., "Intensity and Magnitude of Shallow Earthquakes," *Travaux Scientifiques, Série A*, Fasc. 19, 99-114, 14 fig., Strasbourg, 1956.
- KEHRER, W., HECHT, F., and HELMS, H., "Reflection-seismic Exploration of Schleswig-Holstein." See No. 9922 of this list.
9936. KEYLIS-BOROK, V. I., "Methods and Results of the Investigations of Earthquake Mechanism (A Brief Information)," *Travaux Scientifiques, Série A*, Fasc. 19, 383-394, 7 fig., Strasbourg, 1956.
9937. KEYLIS-BOROK, V. I., "Asymmetric Interference Waves in a Multilayer Medium," (in Russian), *Akad. Nauk SSSR Doklady*, Vol. 107, No. 4, 533-536, 1956.
- KHARIN, D. A., and KIRNOS, D. P., "Basic Equipment of Seismological Stations in the USSR." See No. 9938 of this list.
9938. KIRNOS, D. P., and KHARIN, D. A., "Basic Equipment of Seismological Stations in the USSR," *Travaux Scientifiques, Série A*, Fasc. 19, 357-371, 9 fig., Strasbourg, 1956.
9939. KISHINOUYE, F., and SHIDA, I., "Tripartite Observation of Microseisms at Sakata," *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 34, Part 4, 301-306, 6 fig., Tokyo, Dec., 1956.
9940. KNUDSEN, W. C., "A Model Study of Bubble Dynamics in Offshore Seismic Exploration," (abstract), *Geophysics*, Vol. 22, No. 2, page 502, Menasha, April, 1957.
- KOBAYASHI, N., OMOTE, S., and KOMAKI, S., "Earthquake Observations in Kawasaki and Turumi Areas and the Seismic Qualities of the Ground." See No. 9984 of this list.

9941. KOBORI, T., "Quake Resistant and Nonlinear Problems of the Structural Vibrations to Violent Earthquakes," (Japanese with English summary), *Bulletin of the Disaster Prevention Research Institute*, (memorial issue of the fifth anniversary), 116-124, 4 fig., bib., Kyoto, Nov., 1956.
- KOMAKI, S., KOBAYASHI, N., and OMOTE, S., "Earthquake Observations in Kawasaki and Turumi Areas and the Seismic Qualities of the Ground." See No. 9984 of this list.
- KORNHAUSER, E. T., PROUD, J. M., and TAMARKIN, P., "Propagation of Sound Pulses in a Dispersive Medium." See No. 9999 of this list.
9942. KORSCHUNOV, A., "Ein Beitrag zur Seismik der Lockerböden und oberflächennahen Schichten," *Gerlands Beiträge zur Geophysik*, Band 65, Heft 1, 11-49, 10 fig., Leipzig, 1955.
9943. KORSCHUNOV, A., "Tiefherdbeben aus Göttinger Seismogrammen," *Zeitschrift für Geophysik*, Jahrgang 21, Heft 3, 113-134, 5 fig., bib., Würzburg, 1955.
9944. KOSMINSKAYA, I. P., "Amplitude of Curves and Travel-time Curves of Seismic Waves on the Free Boundary of Semispace," (in Russian), *Akad. Nauk SSSR Izv. Geofiz.*, No. 1, 37-47, 1956.
9945. KREY, T., and TEUDESMANN, G., "Some Velocity Measurement in Drill Holes in Northern Germany," (in German), *Erdöl u Kohle*, Vol. 7, No. 9, 548-550, 1954.
9946. KRISHNAMURTHI, M., and BALAKRISHNA, S., "Attenuation of Sound in Rocks," *Geophysics*, Vol. 22, No. 2, 268-274, Menasha, April, 1957.
9947. LABROUSTE, Y., and BEAUFILS, Y., "Réfractions multiples dans les enregistrements séismographiques des explosions de Champagne, octobre, 1952," *Travaux Scientifique, Série A*, Fasc. 19, 335-338, 1 fig., Strasbourg, 1956.
- LABROUSTE, Y., PETERSCHMITT, E., ROTHÉ, J. P., BEAUFILS, Y., COULOMB, J., GENESLAY, R., and JOBERT, G., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.
- LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., ROTHÉ, J. P., UTZMANN, R., BEAUFILS, Y., BERNARD, P., COULOMB, J., and DUCLAUX, F., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
- LABROUSTE, Y., ROTHÉ, J. P., and GENESLAY, R., "Réflexions à grande profondeur dans les grosses explosions (Champagne, octobre, 1952)." See No. 9893 of this list.

9948. LAPINA, M. I., "Geomagnetism and Seismic Phenomena," *Izv. Akad. Nauk SSSR, Geophysical Series*, Vol. 5, 393-404, 1953.

A translation by E. R. Hope appears as publication 7211R of the Directorate of Scientific Information Service, DRB, Canada, March, 1957. The Library of Congress, Washington, and the British Museum each have a copy of this translation.

9949. LEHMANN, I., "The Velocity of *P* and *S* Waves in the Upper Part of the Earth's Mantle," *Travaux Scientifiques, Série A*, Fasc. 19, 115-123, 2 fig., bib., Strasbourg, 1956.

9950. LIU, D. T., "Wave Propagation in a Liquid Layer," (abstract), *Geophysics*, Vol. 22, No. 2, page 499, Menasha, April, 1957.

- LÓRÁND, S., JÁNOS, G., and FERENC, G., "Development of Pressure Wave by Air Shooting." See No. 9932 of this list.

9951. LYNCH, J., "Recent Developments in Seismology," *Trans. N.Y. Acad. Sci.*, Vol. 17, 579-583, 1955.

An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, page 572, 1956.
Trans. A.G.U.

9952. LYNCH, J. J., S.J., "The Great Lakes, a Source of Two-second Frontal Microseisms," *Travaux Scientifiques, Série A*, Fasc. 19, 177-182, 4 fig., bib., Strasbourg, 1956.

9953. LYNCH, J. J., S.J., "The Status of the Jesuit Seismological Association in 1957," *Earthquake Notes*, Vol. 28, No. 1, 6-8, Washington, March, 1957.

9954. MACCARTHY, G. R., "An Annotated List of North Carolina Earthquakes," *Journal of the Elisha Mitchell Scientific Society*, Vol. 73, No. 1, 84-100, bib., May, 1957.

- MAURETTE, Christian, and HUGHES, D. S., "Variations of Elastic Wave Velocities in Basic Igneous Rocks with Pressure and Temperature." See No. 9928 of this list.

9955. McCORKLE, T. L., "Recommended Practices in the Handling and Use of Seismic Explosives," (abstract), *Geophysics*, Vol. 22, No. 2, page 497, Menasha, April, 1957.

9956. McINTYRE, D. B., and CHRISTIE, J. M., "Nature of the Faulting in Large Earthquakes," (A Contribution to the discussion of a paper by J. H. Hodgson, see No. 9925 of this list), *Bulletin, Geological Society of America*, Vol. 68, No. 5, 645-652, 4 fig., New York, May, 1957.

9957. MEINHOLD, R., "The Subsurface Structure of Western Meckleburg According to the Results of Seismic Reflection Measurements," (in German), *Geologie*, Vol. 4, No. 1, 55-64, 1955.

9958. MENZEL, H., "On the Stress-strain Relation in a not perfectly Elastic Solid Body," *Travaux Scientifiques, Série A*, Fasc. 19, 125-127, Strasbourg, 1956.

9959. MERINO Y CORONADO, J., "Un sismografo electronico de construccion sencilla," (English abstract), *An. Inst. Geof.*, Mexico, Vol. 1, 63-77, 1955.
 Trans. A.G.U.
9960. MEYER, R. P., and WOLLARD, G. P., "Seismic Evidence for Basement Uplift in the Georgia-South Carolina Coastal Plain," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1721, New York, Dec., 1956.
9961. MILNE, W. G., "Canadian West Coast Earthquakes, 1954," *Publications of the Dominion Observatory, Ottawa*, Vol. 18, No. 3, 47-58, Ottawa, 1955.
9962. MONAKHOV, F. Cl., and TARAKANOV, R. J., "Characteristique des tremblements de terre des Kouriles et du Kamchatka suivant les observations des stations voisines durant les années 1952-1954," (in Russian), *Izvest. Akad. Nauk SSSR., Ser. geofiz.*, No. 5, 401-415, 1955.
 An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, page 1917, 1956.
 Trans. A.G.U.
9963. MOORE, W. L., "A Refraction Procedure for Delineating Salt Domes," (abstract), *Geophysics*, Vol. 22, No. 2, page 500, Menasha, April, 1957.
9964. MORAN, D. F., and STEINBRUGGE, K. V., "Engineering Study of Eureka, California, Earthquake of December 21, 1954," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1775, New York, Dec., 1956.
- MORAN, D. F., and STEINBRUGGE, K. V., "Engineering Aspects of the Dixie Valley-Fairview Mountain, Nevada, Earthquake of December 16, 1954." See No. 10036 of this list.
9965. MÜHLEN, Walter, "Ergebnisse dei 'Steinbruch-Seismik' im Siegerland, Kraichgau und in Hessen/Unterfranken," *Geol. Jb.*, Vol. 71, 569-594, 1956.
 Trans. A.G.U.
9966. MÜLHAUSER, S., "Herdmechanische Vorgänge bei einigen zirkumpazifischen Erdbeben," *Tellus*, Vol. 9, No. 1, 104-117, 11 fig., bib., Stockholm, Feb., 1957.
- NABETANI, S., and NORITOMI, K., "On the Specific Heat of Rocks and the Velocity of Elastic Wave within the Outer Layer of the Earth's Crust." See No. 9975 of this list.
9967. NAGAMUNE, T., " M_2 Waves in a Medium with Double Surface Layers," *Geophysical Magazine*, Vol. 27, No. 3, 345-352, 10 fig., bib., Tokyo, Sept. 1956.
- NAGAMUNE, T. S., and AKIMA, T. S., "Dispersion of Seismic Surface Waves and the Structure of Continents and Oceans." See No. 9841 of this list.
9968. NANDA, J. N., "Seismic Exploration of the Continental Shelf off the West Coast of India," *Journal of Geophysical Research*, Vol. 62, No. 1, 113-116, Washington, March, 1957.

- NANDA, J. N., and IYER, H. M., "Microseisms at Cochin." See No. 9931 of this list.
9969. NATURE—The following articles of interest to seismologists appeared in Vol. 179 of this periodical (London, 1957): "Earthquakes During March-September, 1956," No. 4551, page 138, Jan. 19.
"Direction of Seismological Fault Movement in New Zealand," No. 4552, page 183, Jan. 26.
"New Seismological Equipment at British Observatories," No. 4556, page 402, Feb. 23.
9970. NEUMANN, Frank, "Sensitivity Controls on Galitzin-type Seismographs," *Transactions, American Geophysical Union*, Vol. 37, No. 4, 483-490, 3 fig., bib., Washington, Aug., 1956.
9971. NEUMANN, Frank, "Earthquake Epicentres in the State of Washington," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1775, New York, Dec., 1956.
9972. NISHIMURA, E., HOSOYAMA, K., and ITO, Y., "Micro-Tilting Motion of the Ground," *Transactions, American Geophysical Union*, Vol. 37, No. 5, 645-646, 2 fig., Washington, Oct., 1956.
- NISHIMURA, E., and SASSA, K., "On Phenomena Forerunning Earthquakes." See No. 10020 of this list.
9973. NOBLE, W. J., "On the Focusing Effect of Reflection and Refraction in a Velocity Gradient," *J. Acoust. Soc. Am.*, Vol. 27, No. 5, 888-891, Sept., 1955.
9974. NOGUCHI, T., and KATO, K., "Un nouveau détecteur pour les recherches séismiques des dépôts de rebuts," (in Japanese), *J. Ming. Inst. Kyushu*, Vol. 24, 205-209, 1956.
An abstract appears in *Bull. Sign. CNRS*, Part 1, Vol. 17, page 3687, 1956.
Trans. A.G.U.
- NORDQUIST, J. M., RICHTER, C. F., and ALLEN, C. R., "Desert Hot Springs Earthquake of December 4, 1948, and Its Aftershocks." See No. 10003 of this list.
9975. NORITOMI, K., and NABETANI, S., "On the Specific Heat of Rocks and the Velocity of Elastic Wave within the Outer Layer of the Earth's Crust," *Science the Tōhoku University, Fifth Series Geophysics*, Vol. 7, No. 3, 190-200, 8 fig., bib., *Reports of Sendai*, March, 1956.
9976. OAKESHOTT, G. B., "Earthquakes in Kern County, California, during 1952," *Calif. Div. Mines Bul. 171*, 283 pages, Nov., 1955.
9977. O'CONNELL, D. T., "The Babor Seismograph at City College," *City Col. Vector*, Vol. 14, No. 2, 6 pages, New York, 1950.
Trans. A.G.U.

9978. OFFICER, C. B., EWING, J. I., EDWARDS, R. S., and JOHNSON, H. R., "Geophysical Investigations in the Eastern Caribbean: Venezuelan Basin, Antilles Island Arc, and Puerto Rico Trench," *Bulletin, Geological Society of America*, Vol. 68, No. 3, 359-378, 5 fig., 1 pl., New York, March, 1957.
9979. OLIVER, H. O., "South African Earthquakes—January 1953 to December 1955," *Trans. Proc. Geol. Soc., South Africa*, Vol. 59, 123-134, 1956. Trans. A.G.U.
9980. OLIVER, Jack, "Elastic Wave Dispersion in a Cylindrical Rod by a Wide Band Short-duration Pulse Technique," *Journal of the Acoustical Society of America*, Vol. 29, No. 2, 189-194, Feb., 1957.
9981. OLIVER, Jack, "Note on Rayleigh Waves on Cylindrical Curved Surface," *Earthquake Notes*, Vol. 28, No. 1, page 8, 1 fig., bib., Washington, March, 1957.
9982. OLIVER, Jack, and BENTLEY, Charles, "Rayleigh Waves Incident upon a Corner," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1776, New York, Dec., 1956.
9983. OLIVER, Jack, and EWING, Maurice, "Microseisms in the Eleven-to-EIGHTEEN-second Period Range," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1776, New York, Dec., 1956.
9984. OMOTE, S., KOMAKI, S., and KOBAYASHI, N., "Earthquake Observations in Kawasaki and Turumi Areas and the Seismic Qualities of the Ground," *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 34, Part 4, 335-364, 13 fig., Tokyo, Dec., 1956.
9985. PACK, D. C., "The Reflection and Transmission of Shock Waves I: The Reflection of a Detonation Wave at a Boundary," *The Philosophical Magazine*, Eighth Series, No. 14, Vol. 2, 182-188, bib., London, Feb., 1957.
9986. PACK, D. C., "The Reflection and Transmission of Shock Waves II: The Effect of Shock Waves on an Elastic Target of Finite Thickness," *The Philosophical Magazine*, Eighth Series, No. 14, Vol. 2, 189-195, 1 fig., bib., London, Feb., 1957.
9987. PAKISER, L. C., and BLACK, R. A., "Exploring for Ancient Channels with the Refraction Seismograph," *Geophysics*, Vol. 22, No. 1, 32-47, 10 fig., bib., Menasha, Jan., 1957.
9988. PALMER, E. M., "The Gulf Seismic Profile Printer," *Geophysics*, Vol. 22, No. 2, 286-308, 12 fig., Menasha, April, 1957.
9989. PARR, J. O., "Difficulties in Seismic Prospecting Resulting from Bubbles in Fluids," (abstract), *Geophysics*, Vol. 22, No. 2, page 505, Menasha, April, 1957.
9990. PATERSON, M. S., "Lüders' Bands and Plastic Deformation in the Earth's Crust," *Bulletin, Geological Society of America*, Vol. 68, No. 1, 129-130, 2 fig., bib., New York, Jan., 1957.

- PERKINS, B., and DOBRIN, M. B., "Seismic Studies of Bikini Atoll." See No. 9881 of this list.
9991. PETERSCHMITT, E., "Quelques données nouvelles sur les séismes profonds de la mer Tyrrhénienne," *Annali di Geofisica*, Vol. 9, No. 3, 305-334, 5 fig., bib., Rome, July, 1956.
- PETERSCHMITT, E., ROTHÉ, J. P., BEAUFILS, Y., COULOMB, J., GENESLAY, R., JOBERT, G., and LABROUSTE, Y., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.
- PETERSCHMITT, E., ROTHÉ, J. P., UTZMANN, R., BEAUFILS, Y., BERNARD, P., COULOMB, J., DUCLAUX, F., LABROUSTE, Y., and RICHARD, H., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
9992. PIETSCH, D., "Ein Verfahren zur direkten Berechnung der Schichtgeschwindigkeiten in der Reflexionsseismik," *Zeitschrift für Geophysik*, Jahrgang 20, Heft 1, 25-46, 11 fig., bib., Würzburg, 1954.
9993. PINAR, N., "Le seism du 18 mars 1953 de Yenice-Gönen (Anatolie NW) en relation avec les éléments tectoniques," *Travaux Scientifiques, Série A*, Fasc. 19, 297-306, bib., Strasbourg, 1956.
- POLSHKOV, M. K., BEREZA, G. V., and SLUTSKOVSKIY, A. I., "Frequency Analysis of Seismic Vibrations." See No. 9854 of this list.
9994. POSGAY, K., and ANNAU, E., "Diffraction of Seismic Waves," (in Hungarian with English abstract), *Geofiz. Közl.*, Vol. 5, No. 1, 46-52, 1956. Trans. A.G.U.
- POSGAY, K., and ANNAU, E., "Agitation of the Soil." See No. 9843 of this list.
Trans. A.G.U.
9995. PRESS, Frank, "Velocity of *Lg* Waves in California," *Transactions, American Geophysical Union*, Vol. 37, No. 5, 615-618, 2 fig., 1 tab., bib., Washington, Oct., 1956.
An abstract appears in *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1779, New York, Dec., 1956.
9996. PRESS, Frank, "A Seismic Model Study of the Phase Velocity Method of Exploration," *Geophysics*, Vol. 22, No. 2, 275-285, 10 fig., Menasha, April, 1957.
9997. PRESS, Frank, "Antarctic Seismology," *Engineering and Science Monthly*, California Institute of Technology, Pasadena, June, 1957.
- PRESS, Frank, and EWING, Maurice, "Surface Waves and Guided Waves." See No. 9886 of this list.
- PRESS, Frank, and EWING, Maurice, "Seismic Prospecting." See No. 9887 of this list.

9998. PRESS, F., and GUTENBERG, B., "Channel P Waves II_g in the Earth's Crust," *Transactions, American Geophysical Union*, Vol. 37, No. 6, 754-756, 2 fig., bib., Washington, Dec., 1956.
- PRESS, F., RICHTER, C. F., BENIOFF, H., and GUTENBERG, B., "Progress Report, Seismological Laboratory California Institute of Technology, 1956." See No. 9853 of this list.
9999. PROUD, J. M., TAMARKIN, P., and KORNHAUSER, E. T., "Propagation of Sound Pulses in a Dispersive Medium," *Journal of the Acoustical Society of America*, Vol. 8, 80-85, Jan., 1956.
A review by Franklin K. Levin appears in *Geophysics*, Vol. 21, No. 4, page 1123, Menasha, Oct., 1956.
10000. RAIMONDI, Carlo, "Alcune modificazioni al metodo de Kövesligethy per la determinazione delle profondità di terremoti tettonici," *Tech. Ital., Riv. Ing. Sci.*, Vol. 21, 12 pages, 1956. Trans. A.G.U.
- RAM, G., RAO, G. V., and GUHA, S. K., "Trigger Causes in Earth Movements." See No. 9905 of this list.
- RAO, G. V., GUHA, S. K., and RAM, G., "Trigger Causes in Earth Movements." See No. 9905 of this list.
10001. REICH, H., "Über die Ausbreitung seismischer Impulse in der Malmkalkplatte des schwäbisch-fränkischen Juras," *Zeitschrift für Geophysik*, Jahrgang 20, Heft 1, 8-24, 10 fig., bib., Würzburg, 1954.
10002. RESEARCH GROUP FOR EXPLOSION SEISMOLOGY, "Crustal Structure in Northeast Japan by Explosion-seismic Observations," *Travaux Scientifiques, Série A*, Fasc. 19, 229-242, 16 fig., Strasbourg, 1956.
- RICHARD, H., PETERSCHMITT, E., ROTHÉ, J. P., UTZMANN, R., BEAUFILS, Y., BERNARD, P., COULOMB, J., DUCLAUX, F., and LABROUSTE, Y., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
10003. RICHTER, C. F., ALLEN, C. R., and NORDQUIST, J. M., "Desert Hot Springs Earthquake of December 4, 1948, and Its Aftershocks," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1780, New York, Dec., 1956.
- RICHTER, C. F., BENIOFF, H., GUTENBERG, B., and PRESS, F., "Progress Report, Seismological Laboratory California Institute of Technology, 1956." See No. 9853 of this list.
- RICHTER, C. F., and GUTENBERG, Beno, "Magnitude and Energy of Earthquakes." See No. 9913 of this list.

10004. RIKITAKE, T., "Electrical State and Seismicity beneath Japan," *Bulletin of the Earthquake Institute, Tokyo University*, Vol. 34, Part 4, 291-300, 1 fig., 2 tab., Tokyo, Dec., 1956.
10005. RISCHE, H., "Ein erweitertes Ansverfahren für refraktionsseismische Übersichtsvermessungen," *Gerlands Beiträge zur Geophysik*, Band 65, Heft 2, 163-167, 2 fig., Leipzig, 1956.
10006. RITSEMA, A. R., "Amplitudes of Bodily Seismic Waves," *Indon. J. Nat. Sic.*, Vol. 112, 135-152, 1956.
10007. RITSEMA, A. R., "The Mechanism in the Focus of 28 Southeast Asian Earthquakes," *Verhandlingen*, No. 50, 76 pages, 28 fig., 1 map, Djarkarta, 1956.
10008. RITSEMA, A. R., "Stress Distribution in the Case of 150 Earthquakes," *Geologie en Mijnbouw* (NW Ser.), 19 Jahrgang, 36-40, February, 1957.
10009. RITSEMA, A. R., "On the Use of Transverse Waves in Earthquake Mechanism Studies and the Direction of Fault Displacement in S.E. Asian Earthquakes," *Verhandlingen*, No. 52 (Supplement to *Verhandlingen*, No. 50) 32 pages, 26 fig., 2 tab., bib., Djakarta, 1957.
10010. RITSEMA, A. R., and SOETADT, R., "The Earthquake of November 2, 1954, near Sumbawa Island," *Kementerian Perhubungan Lembaga Met. Geofis.*, No. 47, 35 pages, Djakarta, 1955. Trans. A.G.U.
10011. ROBERTS, E. B., "Magnitude and Intensity Scales," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, part 2, page 1780, New York, Dec., 1956.
10012. ROJO, Antonio Due, "Notas sismicas de 1955," *Rev. Geofis.*, Vol. 15, 189-192, Madrid, 1956. Trans. A.G.U.
10013. ROMNEY, Carl, "Seismic Evidence for the Direction of Faulting in the Fairview Peak Earthquake," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1782, New York, Dec., 1956.
10014. ROMNEY, Carl, "Longitudinal Waves from the Dixie Valley-Fairview Peak Earthquake," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1782, New York, Dec., 1956.
10015. ROSENBLUETH, E., "Teoria estadistica de las respuestas sismica," (English abstract) *An Inst. Geof. Mexico*, Vol. 1, 125-133, 1955. Trans. A.G.U.
- ROSINI, E., and GIORGI, M., "Les microséismes d'origine tyrrhénienne." See No. 9897 of this list.
- ROTHÉ, J. P., BEAUFILS, Y., COULOMB, J., GENESLAY, R., JOBERT, G., LABROUSTE, Y., and PETERSCHMITT, E., "Enregistrement des ondes séismiques provoquées par de grosses explosions. II—Champagne, octobre 1952." See No. 9851 of this list.

10015. ROTHÉ, J. P., GENESLAY, R., and LABROUSTE, Y., "Réflexions à grande profondeur dans les grosses explosions (Champagne, octobre 1952)." See No. 9893 of this list.
- ROTHÉ, J. P., UTZMANN, R., BEAUFILS, Y., BERNARD, P., COULOMB, J., DUCLAUX, F., LABROUSTE, Y., RICHARD, H., and PETERSCHMITT, E., "Enregistrement des ondes séismiques provoquées par de grosses explosions. I—Camargue, 1949." See No. 9850 of this list.
10016. RUEGG, Werner, "Geologia de la Islas de las Bahia de Pisco," *Bal. Soc. Geol. de Peru*, Vol. 26, 191-228, bib., Lima, 1953. W.R.
10017. RUEGG, Werner, "Geologie zurischen Cañete-San Juan 13° 00'-15° 24' Südperu," *Geologischen Rundschau*, Band 45, 775-858, 12 fig., bib., Stuttgart, 1956. W.R.
- RUPRECHT, L., and HILLER, H., "Seismic Investigations in Coal Mining." See No. 9924 of this list.
10018. SACKS, I. S., "A Low-noise Transistorized Seismic Preamplifier," *Journal of Geophysical Research*, Vol. 62, No. 2, 267-278, Washington, June, 1957.
10019. SALVATORI, H., "New Developments in Seismic Methods," *Proceedings of the 4th Petroleum Congress, Section I*, page 605, June, 1955.
10020. SASSA, K., and NISHIMURA, E., "On Phenomena Forerunning Earthquakes," *Travaux Scientifiques, Série A*, Fasc. 19, 277-285, 7 fig., bib., Strasbourg, 1956.
10021. SAVAREN SKY, E. F., "Struct. de l'enveloppe de la terre d'après les données séismiques," (in Russian), *Trudy Geofiz. Inst. SSSR*, No. 26, 100-116, 1955.
An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, page 1917, 1956.
Trans. A.G.U.
10022. SAVAREN SKY, E. F., "Development of Seismic Research and Analysis of Seismic Observations in the U.S.S.R.," *Travaux Scientifiques, Série A*, Fasc. 19, 249-256, 1 map, Strasbourg, 1956.
10023. SAVIT, C. H., "A Review of Pacific Coast Offshore Seismic Methods," (abstract), *Geophysics*, Vol. 22, No. 2, page 495, Menasha, April, 1957.
10024. SCHEIDECKER, A. E., and WILLMORE, P. L., "The Use of a Least Squares Method for the Interpretation of Data from Seismic Surveys," *Geophysics*, Vol. 22, No. 1, 9-22, 2 fig., 9 tab., Menasha, Jan., 1957.
10025. SCIENCE NEWS LETTER, The following article of interest to seismologists appeared in Vol. 68 of this periodical (Washington 1955).
"Warn San Francisco Due for Big Quake," No. 19, page 292, Nov. 5.

10026. SCIENCE NEWS LETTER, Articles of interest to seismologists have appeared in various issues of Vol. 71 of this periodical (Washington 1957) as follows:
- “Confirm Existence of Long Undersea Crack,” No. 7, page 99, Feb. 16.
 - “Experts Foresaw Quake,” No. 14, page 211, April 6.
 - “Ground Differences Affect Quake Shaking,” No. 19, page 292, May 11.
 - “California Quake Due,” No. 19, page 295, May 11.
 - “Discover New Kind of Earthquake Wave,” No. 20, page 310, May 18.
 - “Portable Seismograph,” No. 21, page 336, May 25.
10027. SEELIS, K. H., “Seismic Velocities in the Upper Alsace Potash Basin,” (in German), *Erdöl u Kohle*, Vol. 8, No. 9, 610-615, 1955.
10028. SELEM, A. M., “Reflection Survey in Rough Topography,” *Geophysical Prospecting*, Vol. 2, No. 3, 246-257, 10 fig., The Hague, Sept., 1955.
10029. SHALEM, N., “Seismicity and Erythrean Disturbances in the Levant,” *Travaux Scientifiques, Série A*, Fasc. 19, 267-275, 3 fig., bib., Strasbourg, 1956.
10030. SHEMYAKIN, E. I., “The Lamb Problem for a Medium with an Elastic Aftereffect,” (In Russian), *Dokl. Akad. Nauk SSSR*, Vol. 104, No. 2, 193-196, Sept. 11, 1955.
A review by Leon Knopoff appears in *Geophysics*, Vol. 22, No. 1, page 147, Menasha, Jan., 1957.
- SHIDA, I., and KISHINOUYE, F., “Tripartite Observation of Microseisms at Sakata.”
See No. 9939 of this list.
- SHOJI, R., and SUZUKI, M., “Seismic Properties of a Wooden House. Part 1: Vibration Test by Means of an Artificial Force.” See No. 10041 of this list.
10031. SHURBET, D. H., and EWING, Maurice, “Microseisms with Periods of Seven to Ten Seconds Recorded at Bermuda,” *Transactions, American Geophysical Union*, Vol. 37, No. 5, 619-627, 6 fig., Washington, Oct., 1956.
- SLUTSKOVSKIY, A. I., POLSHKOV, M. K., and BEREZA, G. V., “Frequency Analysis of Seismic Vibrations.” See No. 9854 of this list.
10032. SMITH, D. T., “Geophysical Methods of Oil Prospecting—A Review IV—Seismic Methods,” *Petroleum*, Vol. 18, No. 6, 211-217, June, 1955.
10033. SMITH, M. K., “Methods of Filtering Seismic Data,” (abstract), *Geophysics*, Vol. 22, No. 2, page 497, Menasha, April, 1957.
- SOETADT, R., and RITSEMA, A. R., “The Earthquake of November 2, 1954, near Sumbawa Island.” See No. 10010 of this list.
10034. SOLOV'EV, S. L., “Sur le lien entre l'énergie et l'intensité d'une séisme,” (in Russian) *Izv. Akad. Nauk SSSR, Ser. Geofiz.*, No. 3, 357-359, 1956.
An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, page 3686, 1956.
Trans. A.G.U.

10035. STAHL, P., "Seismische Messungen der französischen Polarexpedition in Geönland und Island," *Zeitschrift für Geophysik*, 68-75, 2 fig., Braunschweig, 1953.
10036. STEINBRUGGE, K. V., and MORAN, D. F., "Engineering Aspects of the Dixie Valley-Fairview Mountain, Nevada, Earthquake of December 16, 1954," (abstract), *Bulletin, Geological Society of America*, Vol. 67, No. 12, part 2, page 1784, New York, Dec., 1956.
- STEINBRUGGE, K. V., and MORAN, D. F., "Engineering Study of Eureka, California, Earthquake of December 21, 1954." See No. 9964 of this list.
10037. STONELEY, R., "Variation of Amplitude with Depth in Rayleigh Waves," (abstract) *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1784, New York, Dec., 1956.
10038. STONELEY, Robert, and HOCHSTRASSER, Urs., "The Attenuation of Rayleigh Waves with Depth in a Medium with Two Surface Layers," *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 5, 279-288, 2 fig., 1 tab., London, April, 1957.
10039. STRICK, E., "On a Theoretical Method for Identifying Rock-type and Obtaining Shear Modulus of Bottom Sediments in Water-covered Areas," (abstract), *Geophysics*, Vol. 22, No. 2, page 499, Menasha, April, 1957.
10040. STROBACH, Klaus, "Zum Studium der mikroseismischen Bodenunruhe in Hamburg," *Zeitschrift für Geophysik*, Jahrgang 21, Heft 4/5, 190-214, 20 fig., bib., Würzburg, 1955.
10041. SUZUKI, M., and SHOJI, R., "Seismic Properties of a Wooden House. Part 1: Vibration Test by Means of an Artificial Force," (in Japanese with summary in English) *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 34, Part 4, 381-400, 25 fig., 4 tab., Tokyo, Dec., 1956.
- SUZUKI, Z., TOMODA, Y., and ASADA, T., "On Frequency Distribution of Seismic Magnitude." See No. 9844 of this list.
10042. TAKADA, M., "Tele-observation of the Crustal Movement," (Japanese with English Summary), *Bulletin of the Disaster Prevention Research Institute*, (memorial issue of the fifth anniversary), 28-34, 10 fig., Kyoto, Nov., 1956.
- TAMARKIN, P., KORNHAUSER, E. T., and PROUD, J. M., "Propagation of Sound Pulses in a Dispersive Medium." See No. 9999 of this list.
10043. TAMS, E., "Über Gruppenbildung bei Erdbeben in der rheinischen Region nelist Nachbarschaft," *Zeitschrift für Geophysik*, 92-100, Braunschweig, 1953.
10044. TANABASHI, R., "Ultimate Resistance of Building Structures to Destructive Earthquakes," (Japanese with English Summary), *Bulletin of the Disaster Prevention Research Institute*, (memorial issue of the fifth anniversary), 106-115, 15 fig., bib., Kyoto, Nov., 1956.

10044. TARAKANOV, R. J., and MONAKHOV, F. Cl., "Charactéristiques des tremblements de terre des Kouriles et du Kamchatka suivant les observations des stations voisines durant les années 1952-1954." See No. 9962 of this list.
10045. TEISSEYRE, Roman, "Optico-geometrical Approximation for Seismic Waves in Nonhomogenous Media," *Acta Geophys. Poland*, Vol. 3, 161-167, 1955.
Trans. A.G.U.
10046. TEISSEYRE, Roman, "Non-local Models of Seismic Foci," *Acta Geophys. Poland*, Vol. 4, 226-236, 1956.
Trans. A.G.U.
- TEUDESMANN, G., and KREY, T., "Some Velocity Measurements in Drill Holes in Northern Germany." See No. 9945 of this list.
10047. TICHONOV, A. N., IVANOV, A. G., TROICKAJA, V. A., and D'JAKONOV, B. P., "Über den Zusammenhang von Erdströmen und Erdbeben," *Trudy Geofiz., Inst. Akad. Nauk*, Vol. 25, 181-191, Moscow, 1954. Translated to German by Manfred Schneider and published as Veroffenleistung 25, *Inst. Angew. Geophys.*, Bergakademie Freiberg, 1956.
Trans. A.G.U.
10048. TOCHER, Don, "Crustal Structure in Northern California," (abstract) *Bulletin, Geological Society of America*, Vol. 67, No. 12, Part 2, page 1785, New York, Dec., 1956.
10049. TOCHER, Don, "Anisotropy in Rocks under Simple Compression," *Transactions, American Geophysical Union*, Vol. 38, No. 1, 89-94, 8 fig., bib., Washington, Feb., 1957.
10050. TOKAREV, V. A., "The Seismicity of the Arctic," *Dokl. Akad Nauk*, Vol. 106, 904-906, 1956.
A translation by E. R. Hope appears as publication T242R of the Directorate of Scientific Information Service, DRB, Canada, March, 1957. The Library of Congress, Washington, and the British Museum each have a copy of this translation.
- TOMODA, Y., ASADA, T., and SUZUKI, Z., "On Frequency Distribution of Seismic Magnitude." See No. 9844 of this list.
- TROICKAJA, V. A., D'JAKONOV, B. P., TICHONOV, A. N., and IVANOV, A. G., "Über den Zusammenhang von Erdströmen und Erdbeben." See No. 10047 of this list.
10051. TSUBOI, C., "Earthquake Epicentres, Volcanoes and Gravity Anomalies in and Near Japan," *Travaux Scientifiques, Série A*, Fasc. 19, 243-247, 2 fig., Strasbourg, 1956.
10052. ULLMANN, W., "Zur allgemeinen Bewegungsgleichung von Seismographen mit einen Freiheitsgrad," *Gelands Beiträge zur Geophysik*, Band 65, Heft 1, 56-63, 5 fig., Leipzig, 1955.

10053. ULLMANN, W., "Zur allgemeinen Bewegungsgleichung von einfreiheitsgradigen Seismographen," *Phys. Verhdlg.*, Vol. 6, page 93, 1955.
 An abstract appears in *Bul. Sign CNRS*, Part 1, Vol. 17, page 3685, 1956.
 Trans. A.G.U.
10054. ULLMANN, W., "Zur Klassifikation der Seismographen, Schwingungs-oder Erschütterngs-messer," *Gerlands Beiträge zur Geophysik*, Band 65, Heft 2, 91-108, Leipzig, 1956.
10055. UPTON, P. S., "Microseisms Associated with Tropical Cyclones over the North-east Australian Region," *Tropical Cyclone Symposium*, Paper No. 12, 5 pages, 1 fig., Brisbane, Dec., 1956.
10056. URQUHART, D. F., "The Investigation of Deep Leads by the Seismic Refraction Method," *Dept. Nat. Develop., Bur. Min. Res., Geol. Geophys.*, Bul. 35, 24 pages, 1956.
 Trans. A.G.U.
- UTZMANN, R., BEAUFILS, Y., BERNARD, P., COULOMB, J., DUCLAUX, F., LABROUSTE, Y., RICHARD, H., PETERSCHMITT, E., and ROTHÉ, J. P., "Enregistrement des ondes séismiques provoquées par de grosses explosions I—Camargue, 1949." See No. 9850 of this list.
10057. VALLE, P. E., "Sul gradiente di temperatura necessario per la formazione di 'low-velocity layers,'" *Annali di Geofisica*, Vol. 9, No. 3, 371-378, bib., Rome, July, 1956.
10058. VENING MEINESZ, F. A., "A Phase-transition Layer between 200 and 900 km. Depth in the Earth?" *Kkl. Nederl. Akad. Wetensch., Proc., Ser B*, Vol. 59, 1-10, 1956.
 An abstract appears in *Bul. Sign. CNRS*, Part 1, Vol. 17, page 3684, 1956.
 Trans. A.G.U.
- VIDAL, H., and FÖRTSCH, O., "Die Ergebnisse der seismischen messungen auf dem Hintereisferner in den Öltaler Alpen 1954." See No. 9889 of this list.
10059. WADATI, K., and IWAI, Y., "The Minute Investigation of Seismicity in Japan (2nd paper)," *Travaux Scientifiques, Série A*, Fasc. 19, 261-265, 3 fig., bib., Strasbourg, 1956.
10060. WALKER, H. O., "A Seismic Model with Six Detectors," (abstract), *Geophysics*, Vol. 22, No. 2, page 501, Menasha, April, 1957.
10061. WANNER, Ernst, "Die Lage der Erdbebenherde im Mittelwalles," *Eclogae Geol. Helv.* Vol. 48, 245-255, 1955.
 Trans. A.G.U.
10062. WEINGARTNER, R. A., "The Importance of the Structural Interpretation of Seismic Data," (abstract), *Geophysics*, Vol. 22, No. 2, page 504, Menasha, April, 1957.

10062. WERNER, F. H., and CARDER, D. S., "Reservoir Loading and Local Earthquakes in the Lake Mead Area." See No. 9870 of this list.
10063. WHITE, J. E., and ANGONA, F. A., "Elastic Wave Velocities in Laminated Media," *J. Acoust. Soc. Am.*, Vol. 27, No. 2, 310-317, March, 1955.
10064. WILLIAMS, L. W., "Seismic Reflection Survey at Roma, Queensland, 1952-53," *Dept. of Nat. Develop., Australia*, Report No. 23, 8 pages, 8 folded charts, 1955.
Trans. A.G.U.
10065. WILLMORE, P. L., "The Use of the Stereographic Net for the Rapid Approximate Determination of Distance and Azimuth," *Earthquake Notes*, Vol. 28, No. 1, 4-6, 2 fig., bib., Washington, March, 1957.
- WILLMORE, P. L., and SCHEIDECKER, A. E., "The Use of a Least Squares Method for the Interpretation of Data from Seismic Surveys." See No. 10024 of this list.
10066. WILSON, J. Tuzo, "Origin of the Earth's Crust," *Nature*, No. 4553, Vol. 179, 228-230, 1 tab., bib., London, Feb., 1957.
- WOJTCZAK, B., and GRYGLEWICZ, Z., "Seismological Activity in 1954." See 9904 of this list.
- WOLLARD, G. P., and MEYER, R. P., "Seismic Evidence for Basement Uplift in the Georgia-South Carolina Coastal Plain." See No. 9960 of this list.
10067. YAMPOL'SKI, A. D., "On a certain Characteristic of Three-dimensional Wave Motion," (in Russian), *Priroda*, Vol. 5, 80-81, 1955.
Translated to English, *Defence Sci. Inf. Serv., T. 189.R.*, Ottawa.
Trans. A.G.U.
10068. YEPINAT'YEVA, A. M., "Refracted Waves in Media Characterized by Small Velocity Differences," (in Russian), *Akad. Nauk SSSR Izv. Ser. Geofiz.*, No. 4, 303-322, 1955.
10069. YEPINAT'YEVA, A. M., "Certain Types of Multiple Seismic Waves," (in Russian), *Akad. Nauk SSSR Izv. Ser. Geofiz.*, No. 1, 23-36, 1956.
10070. ZATOPEK, A., "Sur les microséisms de Praha," *Travaux Scientifiques, Série A*, Fasc. 19, 183-191, 5 fig., bib., Strasbourg, 1956.

LIST OF COLLABORATORS

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

RÜEGG, Dr. Werner, Los Manzanoa 230 Lima-Orrantia, Peru, S.A. W.R.

TRANSACTIONS, AMERICAN GEOPHYSICAL UNION, Washington, U.S.A. Trans. A.G.U.