

CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
DOMINION OBSERVATORIES

PUBLICATIONS

OF THE

Dominion Observatory

OTTAWA

Volume XIV

Bibliography of Seismology

No. 15

Items 8547 - 8772

January to June, 1954

BY

W. E. T. SMITH

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1956

990-1956
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 1954

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. Collaborator's 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 de la Sociedad Científica Argentina</i>	Buenos Aires
<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>Boletín del Centro de Documentación Científica y Técnica</i>	Mexico
<i>British Journal of Applied Physics</i>	London
<i>Bulletin Géodésique Internationale</i>	Paris
<i>Bulletin of the American Meteorological Society</i>	Boston
<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>Canadian Journal of Physics</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>Electronics</i>	New York
<i>Endeavour</i>	London
<i>Geofysikální Sborník, Nakladatelství Československé Akademie Věd</i>	Prague
<i>Geographical Journal</i>	London
<i>Geographical Review</i>	New York
<i>Geophysical Abstracts</i>	Washington

<i>Geophysical Magazine</i>	Tokyo
<i>Geophysical Notes of the Geophysical Institute, Tokyo University</i>	Tokyo
<i>*Geophysical Prospecting</i>	The Hague
<i>Geophysics</i>	Menasha
<i>Gerlands Beiträge zur Geophysik</i>	Leipzig
<i>*Indian Journal of Meteorology and Geophysics</i>	New Delhi
<i>Journal of Applied Physics</i>	New York
<i>Journal of Atmospheric and Terrestrial Physics</i>	London
<i>Journal of Geology</i>	Chicago
<i>Journal of Geophysical Research</i>	Baltimore
<i>Journal of Research of the National Bureau of Standards</i>	Washington
<i>Journal of Scientific Instruments</i>	London
<i>Journal of the Franklin Institute</i>	Philadelphia
<i>Journal of the Royal Astronomical Society of Canada</i>	Toronto
<i>Journal of the Washington Academy of Sciences</i>	Washington
<i>Meteoros</i>	Buenos Aires
<i>Monthly Notices of the Royal Astronomical Society, Geophysical Supplement</i>	London
<i>Nature</i>	London
<i>Observatory</i>	Hailsham
<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>Physical Review</i>	New York
<i>Physics Abstracts</i>	London
<i>Proceedings of the Japan Academy</i>	Tokyo
<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, Sections A and B</i>	London
<i>Proceedings of the Royal Society of London, Series A (Mathematical and Physical Sciences)</i>	London
<i>Publications of the Astronomical Society of Japan</i>	Tokyo
<i>Publications of the Dominion Astrophysical Observatory, Victoria</i>	Ottawa
<i>Publications of the Dominion Observatory</i>	Ottawa
<i>Publications of the Isostatic Institute of the International Association of Geodesy</i>	Helsinki
<i>Quarterly Journal of the Geological Society of London</i>	London
<i>Quarterly Journal of the Royal Meteorological Society</i>	London
<i>Review of Scientific Instruments</i>	New York
<i>Reviews of Modern Physics</i>	New York
<i>Science</i>	Washington
<i>Science News Letter</i>	Washington
<i>Science Progress</i>	London
<i>Science Reports of the Tohoku University, Geophysics</i>	Sendai

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

<i>Scientific American</i>	New York
<i>Scientific Monthly</i>	Lancaster
<i>Sky and Telescope</i>	Cambridge
<i>Tellus</i>	Stockholm
<i>Transactions of the American Geophysical Union</i>	Washington
<i>Urania</i>	Madrid
<i>Volcano Letter</i>	Kilauea
<i>Zisin, Journal of the Seismological Society of Japan</i>	Tokyo

- ADAMS, L. H., TUVE, M. A., and TATEL, H. E., "Studies of the Earth's Crust Using Waves from Explosions". See No. 8746 of this list.
- 8547 ALLEN, C. F., LOMBARDI, L. V., and WELLS, W. M., "The Application of the Reflection. Seismograph to Near-surface Exploration", *Geophysics*, Vol. 17, No. 4, 859-866, 1952
Geophysical Abstracts 151, Item 14119, 1952.
- ALLEN, J. F. J., and HODGSON, J. H., "Tables of Extended Distances for *PKP* and *PcP*",
See No. 8624 of this list.
- ALLEN, J. F. J., and HODGSON, J. H., "Tables of Extended Distances for *PP* and *pP*".
See No. 8625 of this list.
- 8548 ANDERSON, DAVID V., "The Propagation of a Pulse between Plane Parallel Plates",
Journal of the Acoustical Society of America, Vol. 25, No. 1, page 154. 1 fig., Jan., 1953.
- 8549 ANDERSON, D. V., and BARNES, C., "The Dispersion of a Pulse Propagated through a
Cylindrical Tube", *Journal of the Acoustical Society of America*, Vol. 25, No. 3, 525-528,
4 fig., May, 1953.
- 8550 ASADA, T., "On the Relation between the Predominant Period and the Maximum
Amplitude of Earthquake Motions", (Japanese with summary in English), *Geophysical
Notes, Geophysical Institute, Faculty of Science, Tokyo University*, Vol. 7, No. 1, Contribu-
tion No. 7, Tokyo, 1954. Reprinted from *Zisin, Journal of the Seismological Society of
Japan, Second Series*, Vol. 6, No. 2, Tokyo, 1953.
- 8551 ASADA, T., "The Frequency Distribution of the Magnitude of Minor Earthquakes",
(Japanese with summary in English), *Geophysical Notes, Geophysical Institute, Faculty of
Science, Tokyo University*, Vol. 7, No. 1, Contribution No. 8, 3 fig., 4 tab., bib., Tokyo,
1954. Reprinted from *Zisin, Journal of the Seismological Society of Japan, Second Series*,
Vol. 7, No. 1, page 30, Tokyo, May, 1954.
- 8552 ASADA, T., "The Magnitude Defined as the Logarithm of the Maximum Displacement
and That Defined as the Logarithm of the Maximum Acceleration", (Japanese with
summary in English), *Geophysical Notes, Geophysical Institute, Faculty of Science, Tokyo
University*, Vol. 7, No. 1, Contribution No. 9, bib., Tokyo, 1954. Reprinted from *Zisin,
Journal of the Seismological Society of Japan, Second Series*, Vol. 7, No. 1, page 45, Tokyo,
May, 1954.
- 8553 ASADA, T., and DEN, N., "On the Frequency Distribution of the *P-S* Intervals of the
Earthquakes Recorded at a Certain Station", (Japanese with summary in English),
Geophysical Notes, Geophysical Institute, Faculty of Science, Tokyo University, Vol. 7,
No. 1, Contribution No. 10, 5 fig., Tokyo, 1954. Reprinted from *Zisin, Journal of the
Seismological Society of Japan, Second Series*, Vol. 7, No. 1, page 37, Tokyo, May, 1954.

- 8554 AUDEN, J. B., "Note on the Earthquake Tremors at Shāhkot, Sheikhpura District, Punjab, of September 1943", *India Geol. Survey, Records*, Vol. 78, Part 1, 135-140, 1949.
Geophysical Abstracts 147, Item 13164, 1951.
- BARNES, C., and ANDERSON, D. V., "The Dispersion of a Pulse Propagated through a Cylindrical Tube", See No. 8549 of this list.
- 8555 BÅTH, Markus, "A Study of *T* Phases Recorded at the Kiruna Seismograph Station", *Tellus*, Vol. 6, No. 1, 63-72, 2 fig., 8 tab., bib., Stockholm, Feb., 1954.
- BECKMANN, Walter, and PRESS, Frank, "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain, Part VIII: Grand Banks and Adjacent Shelves". See No. 8701 of this list.
- 8556 BEDIZ, P. I., "Interpretation of Seismic Data on Locating Reefs in Alberta", *World Oil*, Vol. 136, No. 2, 86-90, 1953.
Geophysical Abstracts 152, Item 14297, 1953.
- 8557 BELOUSOV, V. V., KIRILLOVA, I. V., and SORSKIY, A. A., "Brief Review of the Seismicity of the Caucasus in Relation to Its Tectonics", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 5, 3-9, 1952.
Geophysical Abstracts 151, Item 14058, 1952.
- 8558 BENIOFF, Hugo, "Orogenesis and Deep Crustal Structure—Additional Evidence from Seismology", *Bulletin, Geological Society of America*, Vol. 65, No. 5, 385-400, 16 fig., bib., New York, May, 1954.
- 8559 BERNARD, Pierre, "La Seismologie", *Atomes*, Troisième Année, No. 26, 147-152, 14 fig., May, 1948.
- 8560 BERNARD, Pierre, "Origine des microséismes et de la houle", *Bulletin d'Information C. O. E. C.*, 4^e Année No. 4, April 1952.
- 8561 BERNARD, Pierre, "Microséismes et prévision des cyclones", *Atomes*, Neuvième Anné, No. 98, 157-160, 5 fig., May, 1954.
- 8562 BERSON, I. S., "Certain Kinematic Questions Related to the Propagation of Diffracted Seismic Waves", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 67-83, 1950.
Geophysical Abstracts 146, Item 12928, 1951.
- 8563 BERSON, I. S., "Determination from Experimental Data of the Power Exponent of the Function Representing the Spreading of Refracted Waves", (in Russian), *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 4, 1-30, 1951.
Geophysical Abstracts 147, Item 13219, 1951.
- 8564 BERSON, I. S., "Seismic Waves in Vertically Stratified Medium", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 3, 3-33, 1952.
Geophysical Abstracts 151, Item 14110, 1952.
- 8565 BONELLI, J., and CARRASCO, L. E., "Resultados Provisionales del estudio del caracter sismico de la falla del Guadalquivir", *Talleres del Instituto Geografico y Catastral*, 19 pages 5 fig., Madrid, 1953.

- 8566 BORISEVICH, Ye. S., "Recording Apparatus for Seismic Stations", *Akad. Nauk SSSR Geofiz. Inst. Trudy* No. 14 (141), 53-58, 1952.
Geophysical Abstracts 152, Item 14276, 1953.
- 8567 BOSSOLASCO, Mario, "Seegang, Meteorologische Faktoren und Mikroseismik", *Annalen der Meteorologie*, Heft 7-12, 298-302, 4 fig., bib, 1952.
- 8568 BRILLIANT, Renee M., and EWING, Maurice, "Dispersion of Rayleigh Waves Across the U.S.", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, page 149, 5 fig., 5 tab., Berkeley, April, 1954.
- 8569 BUGAYLO, V. A., "Equation of the (n-1) Segment of the Travel-time Curve of Refracted Waves", *Akad. Nauk SSSR, Ural'skiy Filial, Trudy Gorno-Geol. Inst., No. 19, Geofiz. Sbornik*, No. 1, 14-21, 1950.
Geophysical Abstracts 151, Item 14111, 1952.
- 8570 BUGAYLO, V. A., "Master Charts of Theoretical Travel Times for some Stratified Media", *Akad. Nauk SSSR, Ural'skiy Filial, Trudy Gorno-Geol. Inst., No. 19, Geofiz. Sbornik*, No. 1, 26-32, 1950.
Geophysical Abstracts 152, Item 14293, 1953.
- BUGROV, V. R., RIZNICHENKO, Yu. V., and IVAKIN, B. N., "Modelling of Seismic Waves". See No. 8714 of this list.
- BUGROV, V. R., RIZINICHENKO, Yu. V., and IVAKIN, B. N., "Modelling of Seismic Waves Using Ultrasonic Impulses". See No. 8715 of this list.
- BURGESS, L. R., PEARCE, T. H., MURPHY, L. M., and WILSON, R. M., "Response Curves of an Electromagnetic Seismograph by Sine-wave Simulator Method". See No. 8685 of this list.
- 8571 BULLEN, K. E., "An Introduction to the Theory of Seismology", (second edition), 296 pages, illus. Price \$6.50 University Press, Cambridge, 1953.
A review by I. M. Levitt appears in the *Journal of the Franklin Institute*, No. 1540, Vol. 257, page 340, April, 1954.
- 8572 BULLEN, K. E., and Low, A. H., "Planetary Models of Terrestrial Type", *Monthly Notices of the Royal Astronomical Society*, Vol. 112, Nol 6, 637-640, 2 fig., 2 tab., bib., London, 1952.
- 8573 BYERLY, Perry, and HERRICK, Charles, "T Phases from Hawaiian Earthquakes", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, 113-121, 8 fig., 1 tab., Berkeley, April, 1954.
- 8574 CANTOS FIGUEROLA, José, "Seismic Exploration in Baños de la Encina (Jaén)", *Rev. Geofis.*, Vol. 10, No. 37, 1-19, 1951.
Geophysical Abstracts 146, Item 13019, 1951.
- CARRASCO, L. E., and BONELLI, J., "Resultados Provisionales del estudio del caracter sismico de la falla del Guadalquivir". See No. 8565 of this list.
- 8575 CHARLIER, Ch., and JONES, L., "Enseignements de la Séismologie et de la Géodésie concernant la Structure de l'Ecorce terrestre en Belgique", *Publications du Bureau Central Séismologique International, Série A, Travaux Scientifiques*, Fasc. 18, 29-40, 3 fig., bib., 1952.

- 8576 CLOSS, Hans, "Geophysical Exploration of the Ems Basin", *Erdöl u. Kohle*, Jahrg. 4, Heft 5, 250-259, 1951.
Geophysical Abstracts 146, Item 13017, 1951.
- CLOSS, Hans, DÜRBAUM, Hansjürgen, and DE CALEYA Juan, "The Recognition of Refraction in Seismic Reflection Surveying". See No. 8582 of this list.
- CONCHA, Jaime Fernandez, SILGADO, Enrique and ERICKSEN, George E., "The Cusco, Peru, Earthquake of May 21, 1950". See No. 8589 of this list.
- 8577 CONWELL, C. L., "Seismic Investigations of Areas Near Ephrata, Washington-Columbia Basin Project", *U.S. Bur. Reclamation Geology Rept. G-120*, page 23, 1952.
Geophysical Abstracts 152, Item 14321, 1953.
- 8578 COOTE, G. F., "The Seismic Operation", *Oil in Canada*, Vol. 3, No. 46, 26-27, 1951.
Geophysical Abstracts 147, Item 13214, 1951.
- COTELL, R. D., and CRARY, A. P., "Ice Islands in Artic Research". See No. 8579 of this list.
- 8579 CRARY, A. P., and COTELL, R. D., "Ice Islands in Artic Research", *Sci. Monthly*, Vol. 75, No. 5, 298-302, 1952.
Geophysical Abstracts 151, Item 14050, 1952.
- 8580 DALY, J. W., "Velocity Information Needed for Seismic Interpretation". *World Oil*, Vol. 132, No. 7, 86-88, 1951.
Geophysical Abstracts 146, Item 13010, 1951.
- 8581 DARBYSHIRE, J., "Structure of Microseismic Waves: Estimation of Direction of approach by Comparison of Vertical and Horizontal Components", *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1152, Vol. 223, 97-111, 6 fig., bib., London, April 7, 1954.
- 8582 DE CALEYA, Juan, CLOSS, Hans, and DÜRBAUM, Hansjürgen, "The recognition of Refraction in Seismic Reflection Surveying", *Erdöl u. Kohle*, Jahrg. 5, Heft 12, 765-768, 1952.
Geophysical Abstracts 152, Item 14295, 1953.
- 8583 DEN, N., "On Very Low Frequency Amplifiers to Observe the Explosion Seismic Waves and the Weak Seismic Waves". (Japanese with summary in English), *Geophysical Notes, Geophysical Institute, Faculty of Science, Tokyo University*, Vol. 7, No. 1, Contribution No. 5, 9 fig., Tokyo, 1954. Reprinted from *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 2, Page 101, Tokyo, 1953.
- DEN, N., and ASADA, T., "On the Frequency Distribution of the P-S Intervals of the Earthquakes Recorded at a Certain Station". See No. 8553 of this list.
- 8584 DENNISON, A. T., "The Design of Electromagnetic Geophones", *Geophysical Prospecting*, Vol. 1, No. 1, 3-28, 8 fig., 2 tab., The Hague, March, 1953.
- V.F.J.
- 8585 DE PAZ FERNANDEZ, Reginaldo, "On Earthquakes with a Linear Focus", *Rev. Geofisica*, Vol. 11, No. 42, 179-182, 1952.
Geophysical Abstracts 152, Item 14286, 1953.

- 8586 DONN, William L., "The Relationship between Microseism Period and Storm Position", *Science*, No. 3080, Vol. 119, 55-57, 3 fig., 2 tab., Washington, Jan. 8, 1954.
- 8587 DOWLING, J. J., "Adjustable Magnetic Control for Seismographs", *Journal of Scientific Instruments*, Vol. 31, No. 6, page 222, 1 fig., London, June, 1954.
- DÜRBAUM, Hansjürgen, DE CALEYA, Juan, and CLOSS, Hans, "The Recognition of Refraction in Seismic Reflection Surveying". See No. 8582 of this list.
- 8588 EATON, J. P., "Hawaiian Volcano Observatory Report for October-December, 1953", (lists the local earthquakes recorded during the period), *Volcano Letter*, No. 522, 3-5, Hawaii, Oct.-Dec., 1953.
- EISLER, J. D., SILVERMAN, D., EVANS, J. F., and HADLEY, C. F., "A Three-dimensional Seismic Wave Model with Both Electrical and Visual Observation of Waves". See No. 8590 of this list.
- 8589 ERICKSEN, George E., CONCHA, Jaime Fernandez, and SILGADO, Enrique, "The Cusco, Peru, Earthquake of May 21, 1950", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, 97-112, 9 fig., 1 map, Berkeley, April, 1954.
- 8590 EVANS, J. F., HADLEY, C. F., EISLER, J. D., and SILVERMAN, D., "A Three-dimensional Seismic Wave Model with Both Electrical and Visual Observation of Waves", *Geophysics*, Vol. 19, No. 2, 220-236, 14 fig., 1 tab., bib., Menasha, April, 1954.
- 8591 EVERNDEN, Jack Foord, "Love-wave Dispersion and the Structure of the Pacific Basin", *Bulletin, Seismological Society of America*, Vol. 44, No.1, 1-6, 1 fig., Berkeley, Jan., 1954.
- 8592 EVERNDEN, Jack Foord, "Direction of Approach of Rayleigh Waves and Related Problems (Part II)", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, 159-184, 7 fig., bib., Berkeley, April, 1954.
- 8593 EVISON, F. F., "Early Arrivals in Seismic Prospecting", *Nature*, No. 4413, Vol. 173, page 1047, 1 fig., bib., London, May 29, 1954.
- EWING, Maurice, and BRILLIANT, Renee M., "Dispersion of Rayleigh Waves Across the U.S.". See No. 8568 of this list.
- EWING, Maurice, and OFFICER, C. B., "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain Part VII. Continental Shelf, Continental Slope, and Continental Rise South of Nova Scotia". See No. 8694 of this list.
- EWING, Maurice, OLIVER, Jack, and PRESS, Frank, "Two-dimensional Model Seismology". See No. 8695 of this list.
- 8594 EWING, Maurice, and PRESS, Frank, "An Investigation of Mantle Rayleigh Waves", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, 127-148, 11 fig., 8 tab., Berkeley, April, 1954.
- 8595 EWING, Maurice, SUTTON, G. H., and OFFICER, C. B., "Seismic Refraction Measurements in the Atlantic Ocean, Part VI: Typical Deep Stations, North American Basin", *Bulletin, Seismological Society of America*, Vol. 44, No. 1, 21-38, 8 fig., 3 tab., bib., Berkeley, Jan. 1954.

- 8596 FISH, B. G., "Fundamental Considerations of Seismic Vibrations from Blasting", *Mine and Quarry Eng.*, Vol. 17, No. 4, 111-114, 1951.
Geophysical Abstracts 146, Item 13024, 1951.
- 8597 FISH, B. G., "Effect on Installations of Seismic Vibrations from Blasting", *Mine and Quarry Eng.*, Vol. 17, No. 5, 145-148, 1951.
Geophysical Abstracts 146, Item 13025, 1951.
- 8598 FISH, B. G., "Seismic Vibrations from Blasting. Reduction by Means of Short Delay Initiation", *Mine and Quarry Eng.*, Vol. 17, No. 6, 189-192, 1951.
Geophysical Abstracts 146, Item 13026, 1951.
- 8599 FISH, B. G., "Seismic Vibrations from Blasting. Solution of the Problem in Specific Cases", *Mine and Quarry Eng.*, Vol. 17, No. 7, 217-222, 1951.
Geophysical Abstracts 146, Item 13027, 1951.
- 8600 FÖRTSCH, Otto, "Analysis of the Seismograms of the Great Explosion at Haslach in the Black Forest on April 28, 1948", *Geol. Jahrb.*, Band 66, 65-80, 1951.
Geophysical Abstracts 147, Item 13152, 1951.
- FURUKAWA, E., NISHIMURA, G., and SUZUKI, M., "Theory of Eden's Twin Strips and Application of It to Magnifying Mechanism of Seismometer". See No. 8693 of this list.
- 8601 GALANOPOULOS, A. G., "Die Seismizität der Insel Chios", *Gerlands Beitrage zur Geophysik.*, Band 63, Heft 4, 253-264, 2 fig., bib., Leipzig, 1954.
- 8602 GAMBURTSEV, G. A., "A New Kind of Phase Correlation in Seismic Observations", *Akad. Nauk SSSR Doklady*, Tome 87, No. 1, 37-40, 1952.
Geophysical Abstracts 152, Item 14292, 1953.
- 8603 GAMBURTSEV, G. A., "Determination of the Azimuth Directed Toward the Epicenter When Recording Local Earthquakes", *Akad. Nauk SSSR Doklady*, Tome 87, No. 2, 205-206, 1952.
Geophysical Abstracts 152, Item 14290, 1953.
- 8604 GANE, P. G., and OLIVER, H. O., "South African Earthquakes—1949-1952", *Transactions of the Geological Society of Africa*, Vol. 56, 21-33, 2 fig., 1 map, bib., Johannesburg, 1953.
- 8605 GASKELL, T. F., "Seismic Refraction Work by H.M.S. *Challenger* in the Deep Oceans", *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1150, Vol. 222, 356-361, 2 fig., 2 tab., London, March 18, 1954.
- 8606 GASSMANN, Fritz, and WEBER, Max, "Vibrometer with Electronically Adjustable Constants", *Schweizer. Naturf. Gesell. Verh.*, 141-144, 1950.
Geophysical Abstracts 146, Item 12930, 1951.
- 8607 GIRARD, H. J., "Miniature Seismograph Features Performance Plus Portability", *Oil and Gas Jour.*, Vol. 50, No. 3, 96-97, 128-129, 1951.
Geophysical Abstracts 146, Item 13013, 1951.
- GOLENETSKIY, S. I., and TRESKOV, A. A., "The Hypocentral Method". See No. 8753 of this list.
- GOTO, Hisao, and KONISHI, Ichiro, "A Dynamical Consideration on Earthquake Damage to Bridge Piers". See No. 8659 of this list.

- 8608 GOUGEL, Jean, "Une règle pour les calculs de sismique-refraction", *Geophysical Prospecting*, Vol. 1, No. 1, 44-48, 3 fig., The Hague, March, 1953.
V.F.J.
- 8609 GREEN, C. H., "Relationship of Research and Field Operations in Seismic Exploration", *Oil in Canada*, Vol. 3, No. 46, 50-54, 1951.
Geophysical Abstracts 147, Item 13215, 1951.
- 8610 GUBIN, I. Ye., "Earthquakes in the Garmskaya Oblast", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 8 (135), 96 pages, 1949.
Geophysical Abstracts 151, Item 14057, 1952.
- 8611 GUBIN, I. Ye., "Seismotectonic Method of Seismic Zoning", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 13, (140), 62 pages, 1950.
Geophysical Abstracts 151, Item 14053, 1952.
- 8612 GUTENBURG, Beno, "Low-velocity Layers in the Earth's Mantle", *Bulletin, Geological Society of America*, Vol. 65, No. 4, 337-348, 6 fig., bib., New York, April, 1954.
- HADLEY, C. F., EISLER, J. D., SILVERMAN, D., and EVANS, J. F., "A Three-dimensional Seismic Wave Model with Both Electrical and Visual Observation of Waves". See No. 8590 of this list.
- 8613 HARDTWIG, E., "Oberflächenwellen in energieverzehrenden medien", *Annali di Geofisica*, Vol. 7, No. 2, 143-193, 2 fig., 1 tab., bib., Rome, April, 1954.
- 8614 HARRIS, Sidon, "Exploring for Pennsylvania Reef Reserves in West Texas", *World Petroleum*, Vol. 22, No. 3, 40-42, 1951.
Geophysical Abstracts 146, Item 13016, 1951.
- 8615 HARTSHORN, L., "Dr. Frank Wenner", *Nature*, No. 4415, Vol. 173, page 1122, London, June 12, 1954.
- 8616 HAYAKAWA, Masami, "Outline of 'Some Problems of Seismic Prospecting'", *Geol. Survey Japan Bull.*, Vol. 1, No. 3, 1-8, 1950.
Geophysical Abstracts 147, Item 13226, 1951.
- 8617 HAYAKAWA, Masami, "Some Problems of Seismic Exploration", (Japanese with summary in English), *Geol. Survey of Japan*, Report No. 137, 68 pages, 1951.
Geophysical Abstracts 151, Item 14107, 1952.
- 8618 HAYAKAWA, Masami, and MORI, Kiyoshi, "Seismic Prospecting on the Sea-bottom near Sakito, Nagasaki Prefecture", (in Japanese with summary in English), *Geol. Survey Japan Bull.*, Vol. 1, No. 4, 31-37, 1950.
Geophysical Abstracts 147, Item 13230, 1951.
- 8619 HAYAKAWA, Masami, and TATEISHI, Tetsuo, "Seismic Prospecting at Shimizusawa District in Ishikari Coalfield, in Hokkaido", (in Japanese with English summary), *Geol. Survey Japan Bull.*, Vol. 1, No. 3, 43-49, 1950.
Geophysical Abstracts 147, Item 13229, 1951.
- HERRICK, Charles, and BYERLY, Perry, "T Phases from Hawaiian Earthquakes". See No. 8573 of this list.

- 8620 HILL, M. N., and LAUGHTON, A. S., "Seismic Observations in the Eastern Atlantic, 1952", *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1150, Vol. 222, 348-356, 2 fig., 2 tab., bib., London, March 18, 1954.
- 8621 HILLER, W., "The Determination of the Azimuth of Earthquakes from Surface Waves", *Gerlands Beitr. Geophysik*, Band 61, Heft 4, 221-231, 1950.
Geophysical Abstracts 146, Item 12937, 1951.
- HIRONO, T., MURAI, G., and INOUE, W., "Microseisms and Surf". See No. 8631 of this list.
- 8622 HODGSON, E. A., "Report of Standing Committee on Seismology", *Proceedings, Seventh Pacific Science Congress*, Vol. 2, Auckland and Christchurch, 1953.
- 8623 HODGSON, J. H., "A Seismic Survey in the Canadian Shield", *Proceedings, Seventh Pacific Science Congress*, Vol. 2, 637-638, Auckland and Christchurch, 1953.
This is a preliminary report of work reported in detail in publications listed as Nos. 8184 and 8185 of this bibliography.
- 8624 HODGSON, J. H., and ALLEN, J. F. J., "Tables of Extended Distances for PKP and PcP", *Publications of the Dominion Observatory*, Vol. 16, No. 10, 329-348, 5 fig., Ottawa, 1954.
- 8625 HODGSON, J. H., and ALLEN, J. F. J., "Tables of Extended Distances for PP and pP", *Publications of the Dominion Observatory, Ottawa*, Vol. 16, No. 11, 351-362, 2 fig., 2 tab., Ottawa, 1954.
- 8626 HODGSON, J. H., and STOREY, R. S., "Direction of Faulting in Some of the Larger Earthquakes of 1949", *Bulletin, Seismological Society of America*, Vol. 44, No. 1, 57-83, 15 fig., 3 tab., bib., Berkeley, Jan., 1954.
- 8627 IIDA, Kumizi, and KURIHARA, Shigetoshi, "Offshore Seismic Exploration in Ube Coal Field", (Japanese with summary in English), *Geol. Survey Japan*, Report No. 146, 61 pages, 1952.
Geophysical Abstracts 151, Item 14125, 1952.
- 8628 IMBERT, Bertrand, "Microséismes et houle dans l'Océan Indien sud", *Annales de Géophysique*, Tome 10, No. 2, 175-184, 13 fig., 3 tab., bib., Paris, April-June, 1954.
- 8629 INGRAM, R. E., S. J., and TIMONEY, J. R., "Theory of an Inverted Pendulum with Trifilar Suspension", *School of Cosmic Physics, Dublin Institute for Advanced Studies, Geophysical Bulletin*, No. 9, 8 pages, 3 fig., Dublin, Feb., 1954.
- 8630 INOUE, Win, "On Seismic Sea Wave Warning Systems", (in Japanese with English résumé), *Tokyo Geog. Jour.*, Vol. 60, No. 1, 23-26, 1951.
Geophysical Abstracts 147, Item 13165, 1951.
- 8631 INOUE, W., HIRONO, T., and MURAI, G., "Microseisms and Surf", *Geophysical Magazine*, Vol. 25, No. 3-4, 175-183, 6 fig., Tokyo, March, 1954.
- INOUE, W., and WADATI, K., "On the T-phase of Seismic Waves Observed in Japan". See No. 8762 of this list.
- 8632 ISAKOVICH, M. A., "Wave Dispersion from a Randomly Uneven Surface", *Zhurnal Eksper i Teor. Fiziki*, Vol. 23, No. 3, 305-314, 6 fig., bib., 1952.
A translation by E. R. Hope appears as publication T 112 R of the Defence Scientific Information Service DRB Canada, 1954. The Library of Congress, Washington, and the British Museum each have a copy of this translation.

- IYAKIN, B. N., BUGROV, V. R., and RIZNICHENKO, Yu. V., "Modeling of Seismic Waves", See No. 8714 of this list.
- IYAKIN, B. N., BUGROV, V. R., and RIZNICHENKO, Yu. V., "Modeling of Seismic Waves Using Ultrasonic Impulses". See No. 8715 of this list.
- IWAI, Y., and WADATI, K., "The Minute Investigation of Seismicity in Japan". See No. 8763 of this list.
- 8633 JACOBS, J. A., UFFEN, R. J., and MISENER, A. D., "Temperature Distribution within the Earth's Core", *Nature*, No. 4397, Vol. 173, 258-260, 3 fig., bib., London, Feb. 6, 1954.
- 8634 JARDETZKY, W. S., "The Principal Characteristics of the Formation of the Earth's Crust", *Science*, No. 3090, Vol. 119, 361-364, 2 fig., bib., Washington, March 19, 1954.
- 8635 JEFFREYS, Sir Harold, "The Times of P in Japanese and European Earthquakes", *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 6, No. 9, 557-565, 6 tab., bib., London, April, 1954.
- 8636 JOHNSON, A. M., and WESLEY, R. H., "Applications of Seismic Methods to Foundation Exploration, in Symposium on Surface and Subsurface Reconnaissance", *Am. Soc. for Testing Materials*, Special Tech. Pub. 122, 142-150, 1952.
Geophysical Abstracts 151, Item 14103, 1952.
- JONES, L., and CHARLIER, Ch., "Enseignements de la Séismologie et de la Géodésie concernant la Structure de l'Ecorce terrestre en Belgique". See No. 8575 of this list.
- 8637 KANAI, K., "A Short Note on the Relation of Amplitude-Period of Earthquake Motion", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 2, 211-213, 2 fig., Tokyo, June, 1954.
- 8638 KANAI, K., and SUZUKI, M., "Analytical Results of the Acceleration Seismograms Obtained at Tokyo and Yokohama; *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 2, 189-198, 8 fig., Tokyo, June, 1954.
- 8639 KANAI, K., TANAKA, T., and OSADA, K., "Measurement of the Microtremor I", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 2, 199-209, 13 fig., Tokyo, June, 1954.
- KANETA, Kiyoshi, TANABASHI, Ryo, and KOBORI, Takuzi, "Vibration Problems of Skyscraper Destructive Elements of Seismic Waves for Structures". See No. 8742 of this list.
- 8640 KÁRNÍK, V., "The Earthquake of Nógrad 1951 February 20", *Travaux Géophysiques 1953, Nakladatelstvi Ceskoslovenske Akademie Ved*, No. 2, page 39, Prague, 1954.
J.V.
- 8641 KÁRNÍK, V., and MAREK, V., "Travel Times from Quarry Blasts", *Travaux Géophysiques 1953, Nakladatelstvi Ceskoslovenske Akademie Ved*, No. 3, page 57, Prague, 1954.
J.V.
- 8642 KÁRNÍK, V., and MAREK, V., "Travel Times From Rockbursts", *Travaux Géophysiques 1953, Nakladatelstvi Ceskoslovenske Akademie Ved*, No. 4, page 64, Prague, 1954.
J.V.

- 8643 KÁRNÍK, V., and VANĚK, J., "Travel Times of *P* and *S* Waves for Praha", *Travaux de L'institut Géophysique de L'académie Tchecoslovaque des Sciences*, No. 16, 107-157, 11 fig., 17 pages of tables, Prague 1954.

J.V.

- 8644 KASAHARA, Keichi, "Experimental Studies on the Mechanism of Generation of Elastic Waves IV", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 1, 66-77, 11 fig., 2 tab., Tokyo, March, 1954.

- 8645 KATO, Yoshio, and SHOJI, Rikii, "Prospecting of the Underground Structure of the New Volcano "Showashinzan" by the Seismic Method", *Bull. Volcanologique*, Ser. 2, Tome 10, 129-130, 1950.

Geophysical Abstracts 146, Item 13021, 1951.

- 8646 KATS, A. L. and PUCHKOV, S. V., "On the Vibrations of Buildings Caused by Explosions", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 122-126, 1950.

Geophysical Abstracts 146, Item 12950, 1951.

- 8647 KATZ, Samuel, "Seismic Study of Crustal Structure in Pennsylvania and New York", *Lamont Geological Observatory, Technical Report No. 32*, 39 pages, 5 fig., 5 tab., Palisades, Sept., 1953.

- 8648 KAUFMAN, S., and ROEVER, L., "Laboratory Studies of Transient Elastic Waves", *Third World Petroleum Congress*, Sect. 1, 537-545, 1951.

An Abstract appears in *Geophysical Prospecting*, Vol. 1, No. 1, page 70, The Hague, March, 1953.

V.F.J.

- 8649 KEIMATSU, Mitsuo, "The Short History of the Earthquakes in Hainan Island and Their Chronological Table", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 3, 31-41, Tokyo, Dec., 1953.

- 8650 KEIMATSU, Mitsuo, "The Two Great Earthquakes in the North Eastern Part of Shanhsi Province, China, in 17th-C", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 4, page 1, 2 fig., Tokyo, March, 1954.

- 8651 KEYLIS-BOROK, V. I., "Determination of the Dynamic Characteristics of the Focus of an Earthquake", *Akad. Nauk SSSR Geofiz. Trudy*, No. 9 (136), 3-19, 1950.

Geophysical Abstracts 146, Item 12935, 1951.

- 8652 KEYLIS-BOROK, V. I., "On the Question of Studying (seismic) Sources Equivalent to the Foci of Earthquakes", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 20-42, 1950.

Geophysical Abstracts 151, Item 14035, 1952.

- 8653 KEYLIS-BOROK, V. I., "Frequency Equation of a Multilayer Elastic Medium", *Akad. Nauk SSSR Doklady*, Vol. 87, No. 1, 25-28, 1952.

Geophysical Abstracts 151, Item 14032, 1952.

- 8654 KEYLIS-BOROK, V. I., and KOGAN, S. D., "On the Determination of Epicentral Azimuth", *Akad. Nauk SSSR Geofiz. Inst., Trudy*, No. 14 (141), 21-28, 1952.

Geophysical Abstracts 152, Item 14291, 1953

- 8655 KILCZER, J., "The Theoretical Determination of the Travel Time", *Geofis. Pura e Appl.*, Vol. 19, Fasc. 3-4, 144-155, 1951.
Geophysical Abstracts 146, Item 12924, 1951.
- 8656 KIRILLOVA, I. V., "Seismicity of the Akhalkalaki Plateau", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 5, 10-24, 1952.
Geophysical Abstracts 151, Item 14059, 1952.
- KIRILLOVA, I. V., SORSKIY, A. A., and BELOUSOV, V. V., "Brief Review of the Seismicity of the Caucasus in Relation to Its Tectonics". See No. 8557 of this list.
- 8657 KNOPOFF, LEON, "On the Dissipative Viscoelastic Constants of Higher Order", *Journal of the Acoustical Society of America*, Vol. 26, No. 2, 183-186, March, 1954.
- KOBORI, Takuzi, KANETA, Kiyoshi, and TANABASHI, Ryo, "Vibration Problems of Skyscraper Destructive Elements of Seismic Waves for Structures". See No. 8742 of this list.
- KOGAN, S. D., and KEYLIS-BOROK, V. I., "On the Determination of Epicentral Azimuth". See No. 8654 of this list.
- 8658 KONISHI, Ichiro, "Investigation of the Earthquake Damage of the Goshu Suspension Bridge", *Kyoto Univ. Fac. Engineering Mem.*, Vol. 12, No. 3, 20-32, 1950.
Geophysical Abstracts 146, Item 12949, 1951
- 8659 KONISHI, Ichiro, and GOTO, Hisao, "A Dynamical Consideration on Earthquake Damage to Bridge Piers", *Kyoto Univ. Fac. Engineering Mem.*, Vol. 13, No. 2, 77-93, 1951.
Geophysical Abstracts 146, Item 12948, 1951.
- 8660 KOSMINSKAYA, I. P., "Amplitude Curves and Travel Times of Seismic Waves, Produced by a Distending Point-source in a Homogeneous Perfectly Elastic Infinite Space", *Akad. Nauk SSSR Izv., Ser. Geofiz.* No. 6, 39-47, 1952.
Geophysical Abstracts 152, Item 14274, 1953.
- 8661 KREY, Theodor, "The Significance of Diffraction in the Investigation of Faults", *Geophysics*, Vol. 17, No. 4, 843-858, 1952.
Geophysical Abstracts 151, Item 14120, 1952.
- 8662 KRIGE, L. J., and MAREE, B. D., "Earthquakes in South Africa", *South Africa Dept. Mines, Geol. Ser., Bull. 20*, 14 pages, 1951.
Geophysical Abstracts 147, Item 13161, 1951.
- 8663 KROUSKIJ, L., "An Application of the Method of Approximations in Seismic Prospecting", *Erdöl u. Kohle, Jahrg. 5, Heft 10*, 623-624, 1952.
Geophysical Abstracts 151, Item 14115, 1952.
- 8664 KRUMBEIN, W. C., "Some Relations among Sedimentation, Stratigraphy, and Seismic Exploration", *Am. Assoc. Petroleum Geologists Bull.*, Vol. 35, No. 7, 1505-1522, 1951.
Geophysical Abstracts 146, Item 13008, 1951.
- 8665 KUBOTERA, Akira, "Determination of Elastic Wave Velocities in Rocks by Means of Ultrasonic Impulse Transmission", *Journal of Physics of the Earth*, Vol. 2 No. 1, 33-38, 6 fig., 2 tab., 1954.
- KURIHARA, Shigetoshi, and IIDA, Kumizi, "Offshore Seismic Exploration in Ube Coal Field". See No. 8627 of this list.

- 8666 LAUGHTON, A. S., "Laboratory Measurements of Seismic Velocities in Ocean Sediments", *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1150, Vol. 222, 336-341, 2 fig., bib., London, March 18, 1954.
- LAUGHTON, A. S., and HILL, M. N., "Seismic Observations in the Eastern Atlantic, 1952". See No. 8620 of this list.
- LOMBARDI, L. V., WELLS, W. M., and ALLEN, C. F., "The Application of the Reflection Seismograph to Near-surface Exploration". See No. 8547 of this list.
- LOW A. H., and BULLEN, K. E., "Planetary Models of Terrestrial Type". See No. 8572 of this list.
- MAREE, B. D., and KRIGE, L. J., "Earthquakes in South Africa". See No. 8662 of this list.
- MAREK, V., and KÁRNÍK, V., "Travel Times from Quarry Blasts". See No. 8641 of this list.
- MAREK, V., and KÁRNÍK, V., "Travel Times from Rockbursts". See No. 8642 of this list.
- 8667 MARTIN, H., "Laufzeitkurven auf mathematisch-physikalischer Grundlage. I Teil: Nahbeben", *Deutsche Akademie der Wissenschaften zu Berlin*, Heft 57, 70 pages, Berlin, 1953.
- 8668 MATSCHINSKI, Matthias, "Formation des fissures primaires de l'écorce terrestre", *Annali di Geofisica*, Vol. 7, No. 1, 1-31, 5 fig., bib., Rome, Jan. 1954.
- MATUMOTO, Hideteru, MIYAMURA, Setumi and TSUJURA, Masaru, "Tele-recording of Seismic Wave Forms by High Frequency Base Line Carrier Waves". See No. 8677 of this list.
- 8669 MATUZAWA, Takeo, "S-Wellen an der fest-flüssigen Schichtgrenze I", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, part 1, 1-5, 1 tab., Tokyo, March, 1954.
- 8670 MATUZAWA, Takeo, "S-Wellen an der fest-flüssigen Schichtgrenze. II", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 2, 154-160, Tokyo, 1954.
- 8671 MEDVEDEV, S. V., "Estimation of Seismic Intensity as Influenced by Conditions of Weathered Layer", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 14 (141), 29-52, 1952. *Geophysical Abstracts 152*, Item 14316, 1953.
- 8672 MEISTER, F. J., "Calibration and Testing of Vibrometers", *Archiv. Tech. Messen*, Lief. 15, T18-T19, 1949. *Geophysical Abstracts 146*, Item 12931, 1951.
- 8673 MENCHER, A. G., "Epicentral Displacement Caused by Elastic Waves in an Infinite Slab" *Journal of Applied Physics*, Vol. 24, No. 9, 1240-1246, New York, Sept. 1953.
- 8674 MIHAILOVIC, Jelenko, "Seismologic Map of Yugoslavia", *Radovi Seizmologskog Zavoda F. N. R. J. u Beogradu.*, 110 pages, 1950. *Geophysical Abstracts 151*, Item 14060, 1952.

- 8675 MIKI, Haruo, "Temperature in the Earth", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 4, page 30, 3 tab., Tokyo, March, 1954.
- MIKI, Haruo, and SHIMAZU, Yasuo, "Internal Constitution of the Earth". See No. 8727 of this list.
- 8676 MILNE, W. G., "Canadian West Coast Earthquakes, 1952", *Publications of the Dominion Observatory*, Vol. 16, No. 9, 313-324, 4 tab., 2 maps, Ottawa, 1953.
- MISENER, A. D., JACOBS, J. A., and UFFEN, R. J., "Temperature Distribution within the Earth's Core". See No. 8633 of this list.
- 8677 MIYAMURA, Setumi, TSUJIURA, Masaru, and MATUMOTO, Hideteru, "Tele-recording of Seismic Wave Forms by High Frequency Base Line Carrier Waves", (Japanese) *Zisin Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 4, page 57, 2 fig., Tokyo, March, 1954.
- 8678 MONAKHOV, F. I., "The Interpretation of Observed Data on Deep-focus Earthquakes at Short Epicentral Distance", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 43-57, 1950.
Geophysical Abstracts 146, Item 12936, 1951.
- 8679 MONAKHOV, F. I., "The Determination of the Displacement Vector Produced by Transverse Waves", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 58-66, 1950.
Geophysical Abstracts 146, Item 12934, 1951.
- 8680 MONAKHOV, F. I., "The Characteristics of Deep Focus Earthquakes in Afghanistan", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 14 (141), 3-12, 1952.
Geophysical Abstracts 152, Item 14310, 1953.
- 8681 MOORE, C. M., "How a Seismic Crew Does the Job", *Oil in Canada*, Vol. 3, No. 46, 28-29, 1951.
Geophysical Abstracts 147, Item 13216, 1951.
- MORAN, Donald F., and STEINBRUGGE, Karl V., "An Engineering Study of the Southern California Earthquake of July 21, 1952 and Its Aftershocks". See No. 8730 of this list.
- MORI, Kiyoshi, and HAYAKAWA, Masami, "Seismic Prospecting on the Sea-bottom near Sakito, Nagasaki Prefecture". See No. 8618 of this list.
- 8682 MOTA, Lindonor, "Weathering Corrections in Seismic Refraction", *Univ. Brasil Escola da Minas Rev.*, Ano 16, No. 5, 35-38, 1951.
Geophysical Abstracts 152 Item 14296, 1953.
- 8683 MOTA, Lindonor, "Determination of Dips and Depths of Geological Layers by the Seismic Refraction Method", *Geophysics*, Vol. 19, No. 2, 242-254, 4 fig., bib., Menasha, April, 1954.
- 8684 MÜHLHÄUSER, S., "Die Richtung der ersten Bodenbewegung (Kompression oder Dilatation) in Stuttgart für die Hauptbebengebiete der Erde, als Grundlage für grosstektonische Betrachtungen", *Sonderband 1953 der Zeitschrift für Geophysik*, 76-91, 10 fig., bib., Braunschweig, 1953.
- MURAI, G., INOUE, W., and HIRONO, T., "Microseisms and Surf". See No. 8631 of this list.

- 8685 MURPHY, L. M., WILSON, R. M., BURGESS, L. R., and PEARCE, T. H., "Response Curves of an Electromagnetic Seismograph by Sine-Wave Simulator Method", *Bulletin, Seismological Society of America*, Vol. 44, No. 1, 7-20, 10 fig., Berkeley, Jan., 1954.
- 8686 MUSGRAVE, Albert W., "Wavefront Charts and Raypath Plotter", *Mines Mag.*, Vol. 43, No. 2, 27-31, 54, 1953.
Geophysical Abstracts 152, Item 14298, 1953.
- 8687 NATIONAL RESEARCH COUNCIL OF CANADA. An earthquake probability map of Canada prepared by Dominion Observatories, Seismological Division, appears on page 25 of *National Building Code of Canada Part 2, Climate, N.R.C. No. 3190*. Price: 25 cents. National Research Council, Ottawa, 1953.
- 8688 NATURE. Articles of interest to seismologists have appeared in various issues Vol. 173, of this periodical (London 1954) as follows:
(1) "Bibliography of Seismology", No. 4407, April 17.
- 8689 NELSON, R. L., "A Study of the Seismic Waves *SKS* and *SKKS*", *Bulletin, Seismological Society of America*, Vol. 44, No. 1, 39-55, 11 fig., 6 tab., bib., Berkeley, Jan., 1954.
- 8690 NEUMANN, Frank, "Earthquake Intensity and Related Ground Motion", *University of Washington Press*. Price \$1.50 (paper cover) Seattle, 1954.
- 8691 NEWLANDS, Margery, "Lamb's Problem with Internal Dissipation. I", *Journal of the Acoustical Society of America*, Vol. 26, No. 3, 434-448, May, 1954.
- 8692 NISHIMURA, G., and SUZUKI, M., "Horizontal Deformations of a Japanese Two-storied Frame-house: (1) Vibration Due to an Arbitrary Shock, (2) Vibration Caused by a Rotary with Unbalanced Mass, (3) Vibration Due to Natural Wind, and (4) Deformation Due to the Sun's Radiation Heat", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 1, 113-144, 18 fig., 7 tab., Tokyo, March, 1954.
- 8693 NISHIMURA, G., SUZUKI, M., and FURUKAWA, E., "Theory of Eden's Twin Strips and Application of it to Magnifying Mechanism of Seismometer", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 1, 88-111, 21 fig., 2 tab., Tokyo, March, 1954.
- 8694 OFFICER, C. B., and EWING, Maurice, "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain Part VII. Continental Shelf, Continental Slope, and Continental Rise South of Nova Scotia", *Bulletin of the Geological Society of America*, Vol. 65, No. 7, 653-670, 9 fig., 1 pl., bib., New York, July, 1954.
- OFFICER, C. B., EWING, Maurice, and SUTTON, G. H., "Seismic Refraction Measurements in the Atlantic Ocean, Part VI: Typical Deep Stations, North American Basin", See No. 8595 of this list.
- OLIVER, H. O., and GANE, P. G., "South African Earthquakes—1949-1952". See No. 8604 of this list.
- 8695 OLIVER, Jack, PRESS, Frank, and EWING, Maurice, "Two-dimensional Model Seismology", *Geophysics*, Vol. 19, No. 2, 202-219, 11 fig., 2 tab., bib., Menasha, April, 1954.
- OSADA, K., KANAI, K., and TANAKA, T., "Measurement of the Micro-tremor I". See No. 8639 of this list.

- 8696 OSTROVSKII, A. E., "Voltage Stabilizer for Seismic Stations", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136) 127-131, 1950.
Geophysical Abstracts 146, Item 12933, 1951.
- 8697 OSTROVSKII, A. E., "An Alarm Instrument Signaling Intense Earthquakes", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 9 (136), 132-133, 1950.
Geophysical Abstracts 146, Item 12932, 1951.
- 8698 PASECHNIK, I. P., "Results of Experimental Investigations of Resonance Phenomena in the Vibrating System Ground-seismograph", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 3, 34-57, 1952.
Geophysical Abstracts 151, Item 14105, 1952.
- 8699 PASECHNIK, I. P., "Comparison of the Results of a Theoretical Study of Resonance Phenomena in the System Ground Seismograph with Experimental Data", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 5, 25-40, 1952.
Geophysical Abstracts 151, Item 14106, 1952.
- PEARCE, T. H., MURPHY, L. M., WILSON, R. M., and BURGESS, L. R., "Response Curves of an Electromagnetic Seismograph by Sine-wave Simulator Method". See No. 8685 of this list.
- 8700 PINAR, Nuriye, "Geologic and Seismologic Study of the Karaburun (Izmir) Earthquake of July 23, 1949", *Istanbul Univ. Fen Fakültesi Mechnuasi Ser A.*, Tome 15, Fasc. 4, 363-375, 1950.
Geophysical Abstracts 146, Item 12940, 1951.
- 8701 PRESS, Frank and BECKMANN, Walter, "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain, Part VIII: Grand Banks and Adjacent Shelves", *Bulletin of the Geological Society of America*, Vol. 65, No. 3, 299-314, 10 fig., 2 tab., bib., New York, March, 1954.
- PRESS, Frank, and EWING, Maurice, "An Investigation of Mantle Rayleigh Waves". See No. 8594 of this list.
- PRESS, Frank, EWING, Maurice, and OLIVER, Jack, "Two-dimensional Model Seismology". See No. 8695 of this list.
- PUCHKOV, S. V., and KATS, A. L., "On the Vibrations of Buildings Caused by Explosions". See No. 8646 of this list.
- 8702 RAMIREZ, J. E., S.J., "El terremoto de Arboledas, Cucutilla y Salazar de las Palmas, 8 de julio, 1950", *Instituto Geofísico de los Andes Colombianos, Serie A—Sismologia*, Boletín No. 10, 92 pages, 40 illustrations, Bogota, June, 1953.
- 8703 REICH, Hermann, "Results of Seismic Investigations in the Peissenberg Coal Mine", *Erdöl u. Kohle*, Jahrg. 4, Heft 9, 538-542, 1951.
Geophysical Abstracts 151, Item 14123, 1952.
- 8704 REICH, Hermann, "Über seismische Beobachtungen der Prakla von Reflexionen aus grossen Tiefen bei den grossen Steinbrück-Sprengungen in Blaubeuren am 4. März und am 10. Mai 1952", *Geol. Jahrb.* Band 68, 225-240, 8 fig., bib., Hannover, Aug., 1953.

- 8705 RESEARCH GROUP FOR EXPLOSION SEISMOLOGY, "Observation of Seismic Waves from the First Great Explosion at Kamaisi Mine", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 3, 6-13, 3 fig., 2 tab., Tokyo, Dec., 1953.
- 8706 RESEARCH GROUP FOR EXPLOSION SEISMOLOGY, "The Fourth Explosion-seismic Observations in North-eastern Japan", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 1, 79-86, 7 fig., 2 tab., Tokyo, March, 1954.
- 8707 REY PASTOR, Alfonso, "Estudio morfo-tectonico de la Falla del Gaudalquivir", *Talleres del Instituto Geografico y Catastral*, 50 pages, Madrid, May, 1954.
- 8708 RICHARD, H., "Réflexions multiples obliques", *Geophysical Prospecting*, Vol. 1, No. 1, 49-63, 9 fig., The Hague, March, 1953.
- V.F.J.
- 8709 RICKER, Norman, "The Form and Laws of Propagation of Seismic Wavelets", *Third World Petroleum Congress*, Sect. 1, 514-536, 1951.
An abstract appears in *Geophysical Prospecting*, Vol. 1, No. 1, page 70, The Hague, March, 1953.
- V.F.J.
- 8710 RICKER, Norman, "Wavelet Contraction, Wavelet Expansion, and the Control of Seismic Resolution", *Geophysics*, Vol. 18, No. 4, 769-792, Oct., 1953.
- 8711 RITSEMA, A. R., "Further Evidence of a Discontinuity at about 130 Kilometers below the Earth's Surface", *J. Sci. Research Indonesia*, Vol. 2, No. 1, 10-12, 3 fig., Sept., 1953.
- 8712 RITSEMA, A. R., "New Seismicity Maps of the Banda Sea", *J. Sci. Research, Indonesia* Vol. 2, No. 2, 48-54, 7 fig., 1 tab., Oct., 1953.
- 8713 RITSEMA, A. R., "The Seismicity of the Sunda Arc in Space and Time", *Indonesian Journal for Natural Science*, Nos. 1, 2, and 3, 41-50, 7 fig., bib., Jan.—June, 1954.
- 8714 RIZNICHENKO, Yu. V., IVAKIN, B. N., and BUGROV, V. R., "Modeling of Seismic Waves", (in Russian), *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 5, 1-30, 1951.
Geophysical Abstracts 147, Item 13218, 1951.
- 8715 RIZNICHENKO, Yu. V., IVAKIN, B. N., and BUGROV, V. R., "Modeling of Seismic Waves Using Ultrasonic Impulses", *Akad. Nauk SSSR Izv., Ser. Geofiz.* No. 3, 58-69, 1952.
Geophysical Abstracts 152, Item 14284, 1953.
- 8716 ROBIN, G. de Q., "Measurements of Ice Thickness in Dronning Maud Land, Antarctica", *Nature*, Vol. 171, No. 4341, 55-58, 1953.
Geophysical Abstracts 152, Item 14320, 1953.
- ROEVER, L., and KAUFMAN, S., "Laboratory Studies of Transient Elastic Waves". See No. 8648 of this list.
- 8717 ROTHÉ, J. P., "Summary of the Seismicity of the Earth During the Years 1947-1948 (Seismologic chronicle)", *Rev. l'Etude des Calamities*, Tome 12, No. 28-29, 19-46, 1950-1951.
Geophysical Abstracts 146, Item 12941, 1951.

- 8718 ROTHÉ, J. P., "Étude du mouvement microséismique à Strasbourg", *Pontificiæ Scientiarum Scripta Varia* 12, (Extrait du volume "La Semaine d'étude sur le Problème des Microséismes") 19-61, 11 fig., 4 tab., Ex Aedibus Academicis in Civitate Vaticana, 1952.
- 8719 ROTHÉ, J. P., "La zone séismique médiane Indo-Atlantique", *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1150, Vol. 222, 387-397, 2 fig., 5 pages of tables, bib., London, March 18, 1954.
- 8720 SAHLSTRÖM, K. E., "Jordskalv i Sverige 1941-1950", *Sveriges Geologiska Undersökning Ser. C., Avhandlingar och uppsatser*. N:o 532. Årsbok 47, N:o 3, 33 pages, 20 fig., 1 map, Stockholm, 1953.
- 8721 SATO, R., "On the Propagation of Tremors along the Interface between Solid and Water Produced by a Point Source in a Solid (I)", (Japanese with summary in English), *Geophysical Notes, Geophysical Institute, Faculty of Science, Tokyo University*, Vol. 7, No. 1, Contribution No. 6, 7 fig., bib., Tokyo, 1954. Reprinted from *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 7, No. 1, page 8, Tokyo, May, 1954.
- 8722 SATO, Yasuo, "Study on Surface Waves X. Equivalency of SH-waves and Sound Waves in a Liquid", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 1, 5-16, 5 fig., 1 tab., Tokyo, March, 1954.
- 8723 SATO, Yasuo, "Study on Surface Waves XI. Definition and Classification of Surface Waves", *Bulletin of the Earthquake Research Institute, Tokyo University*, Vol. 32, Part 2, 161-168, 2 tab., Tokyo, June 1954.
- 8724 SAVARENSKIY, Ye. G., "On the Angle of Emergence of Seismic Rays and Certain Related Questions", *Akad. Nauk SSSR Geofiz. Inst. Trudy*, No. 15 (142), 111 pages, 1952. *Geophysical Abstracts* 151, Item 14036, 1952.
- 8725 SCIENCE NEWS LETTER, Articles of interest to seismologists have appeared in various issues of Vol. 65, of this periodical (Washington 1954), as follows:
(1) "Earthquake Recorder Can Spot Hurricanes", No. 4, page 53, Jan. 23.
(2) "Faster Spotting of Uranium Ores Seen", No. 23, page 360, June 5.
- 8726 SEMANATE, A. D., O. P., "Breves lecciones de sismometria", 141 pages. Edit. Casa de la Cultura Ecuatoriana, Quito, 1954.
- 8727 SHIMAZU, Yasuo, and MIKI, Haruo, "Internal Constitution of the Earth", (Japanese), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 4, page 34, 5 fig., bibliography of over 80 pertinent papers, Tokyo, March, 1954.
- SHOJI, Rikii, and KATO, Yoshio, "Prospecting of the Underground Structure of the New Volcano "Showashinzan" by the Seismic Method". See No. 8645 of this list.
- SILGADO, Enrique, ERICKSEN, George E., and CONCHA, Jaime Fernandez, "The Cusco, Peru, Earthquake of May 21, 1950". See No. 8589 of this list.
- SILVERMAN, D., EVANS, J. F., HADLEY, C. F., and EISLER, J. D., "A Three-dimensional Seismic Wave Model with Both Electrical and Visual Observation of Waves". See No. 8590 of this list.
- 8728 SLICHTER, L. B., "Seismic Interpretation Theory for an Elastic Earth", *Proceedings, Royal Society, Series A, Mathematical and Physical Sciences*, No. 1156, Vol. 224, 43-63, bib., London, June 9, 1954.

- SORSKIY, A. A., BELOUSOV, V. V., and KIRILLOVA, I. V., "Brief Review of the Seismicity of the Caucasus in Relation to Its Tectonics". See No. 8557 of this list.
- 8729 SRETENSKIY, L. N., "Propagation of Elastic Waves Produced by a System of Normal Stresses over the Surface of Semispace", *Trudy Moskovskogo Mat. Obshchestna*, Vol. 1, 167-186, 1952.
Geophysical Abstracts 151, Item 14031, 1952.
- 8730 STEINBRUGGE, Karl V., and MORAN, Donald F., "An Engineering Study of the Southern California Earthquake of July 21, 1952 and Its Aftershocks", *Bulletin, Seismological Society of America*, Vol. 44, No. 2B, 201-462, 345 fig., 15 tab., 6 maps, Berkeley, April, 1954.
- 8731 STENZ, Edward, "On the Suggested Correlation between the Rock Bursts and the Changes of Atmospheric Pressure", (in Polish), *Panstwowy Instyt. Geol., Ślaskiej stacji geofizycznej w Raciborzu Biul. 1*, 55-61, 1950.
Geophysical Abstracts 147, Item 13160, 1951.
- 8732 STONELEY, R., "Rayleigh Waves in a Medium with Two Surface Layers", *Monthly Notices of the Royal Astronomical Society, Geophysical Supplement*, Vol. 6, No. 9, 610-615, bib., London, April, 1954.
- 8733 STONELEY, R., et al., "Seismological Investigations", (Fifty-eighth report of the Committee on Seismological Investigations of the British Association for the Advancement of Science), *The Advancement of Science*, No. 41, Vol. 11, 112-116, London, June, 1954.
- STOREY, R. S., and HODGSON, J. H., "Direction of Faulting in Some of the Larger Earthquakes of 1949". See No. 8626 of this list.
- 8734 STORMONT, D. H., "New Seismic Test—Oil Companies to Resume Offshore Exploration after Developing Black-powder Methods to Reduce Fish Kill", *Oil and Gas Jour.*, Vol. 50, No. 13, page 40, 1951.
Geophysical Abstracts 146, Item 13015, 1951.
- 8735 STROBACH, K., "Ortsgültige Laufzeitkurven von P and S für Hamburg", *Gerlands Beiträge zur Geophysik*, Band 63, Heft 4, 265-281, 2 fig., 4 tab., bib., Leipzig, 1954.
- 8736 SÜSSTRUNK, A., "Seismic Exploration of Glaciers 1948-50", *Schweizer naturf. Gessell. Verh.*, Vol. 130, 151-158, 1950.
Geophysical Abstracts 147, Item 13227, 1951.
- 8737 SÜSSTRUNK, A., "Seismic Sounding of Glaciers", *La Houille Blanche*, 6^{me} Année No. A, 309-318, 1951.
Geophysical Abstracts 146, Item 13022, 1951.
- SUTTON, G. H., OFFICER, C. B., and EWING, Maurice, "Seismic Refraction Measurements in the Atlantic Ocean, Part VI: Typical Deep Stations, North American Basin", See No. 8595 of this list.
- SUZUKI, M., FURUKAWA, E., and NISHIMURA, G., "Theory of Eden's Twin Strips and Application of It to Magnifying Mechanism of Seismometer". See No. 8693 of this list.
- SUZUKI, M., and KANAI, K., "Analytical Results of the Acceleration Seismograms Obtained at Tokyo and Yokohama". See No. 8638 of this list.

- SUZUKI, M., and NISHIMURA, G., "Horizontal Deformations of a Japanese Two-storied Frame-house: (1) Vibration Due to an Arbitrary Shock, (2) Vibration Caused by a Rotary with Unbalanced Mass, (3) Vibration Due to Natural Wind, and (4) Deformation Due to the Sun's Radiation Heat". See No. 8692 of this list.
- 8738 SZUROVY, G., "Geological Structure of the Southern Part of the Great Hungarian Plain", *Historico-Naturales Mus. Nationalis Annales*, Vol. 41, No. 1, 1-24, 1948.
Geophysical Abstracts 146, Item 13018, 1951.
- 8739 TAIWAN WEATHER BUREAU, "Earthquake Report 1951", 83 pages, 39 fig. Text is in Chinese but table headings and figure captions are given in English as well as Chinese. Taipei, Taiwan, China.
- 8740 TAKAHASHI, Ryutaro, "'SMAC' Strong Motion Accelerometer" (Japanese with summary in English), *Zisin, Journal of Seismological Society of Japan, Second Series*, Vol. 6, No. 3, 1-6, 2 fig., Tokyo, Dec., 1953.
- 8741 TAMAKI, Ituo, "The Crustal Structure of Japan Derived from Observed Travel Time Curves of Shallow Earthquakes", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 7, No. 1, page 1, 4 fig., bib., Tokyo, May, 1954.
- 8742 TANABASHI, Ryo, KOBORI, Takuzi, and KANETA, Kiyoshi, "Vibration Problems of Skyscraper Destructive Elements of Seismic Waves for Structures", *Disaster Prevention Research Institute, Kyoto University, Bulletin No. 7*, 24 pages, 14 fig., bib., Kyoto, March, 1954.
- TANAKA, T. OSADA, K., and KANAI, K., "Measurement of the Microtremor I". See No. 8639 of this list.
- 8743 TATEISHI, Tetsuo, "Report on Seismic Prospecting near West Toyama". *Geol. Survey Japan Bull.*, Vol. 1, No. 4, 78-80, 1950.
Geophysical Abstracts 147, Item 13228, 1951.
- 8744 TATEISHI, Tetsuo, "Seismic Prospecting at Toyosuto Coalfield, Hokkaido", (In Japanese with English resume), *Geol. Survey Japan Bull.*, Vol. 2, No. 9, 29-34, 1951.
Geophysical Abstracts 151, Item 14124, 1952.
- TATEISHI, Tetsuo, and HAYAKAWA, Masami, "Seismic Prospecting at Shimizusawa District in Ishikari Coalfield, in Hokkaido". See No. 8619 of this list.
- 8745 TATEL, H. E., "Note on the Nature of a Seismogram. II", *Journal of Geophysical Research*, Vol. 59, No. 2, 289-294, 5 fig., bib., Washington, June, 1954.
- 8746 TATEL, H. E., ADAMS, L. H., and TUVE, M. A., "Studies of the Earth's Crust Using Waves from Explosions", *Proceedings of the American Philosophical Society*, Vol. 97, No. 6, 659-669, 16 fig., Dec., 1953.
- 8747 TATEL, H. E., and TUVE, M. A., "Note on the Nature of a Seismogram. I", *Journal of Geophysical Research*, Vol. 59, No. 2, page 287, bib., Washington, June, 1954.
- 8748 TEIXEIRA, Carlos, "On a Hypothesis of the Structure of the Atlantic Ocean", *Univ. Lisboa Fac. Cien. Museu e Lab. Mineralog. e Geol. Bol.*, 6th Ser., No. 18, 69-80, 1950.
Geophysical Abstracts 147, Item 13156, 1951.

- 8749 TILLOTSON, Ernest, "Seismology in Great Britain, 1949-1950", *Nature*, Vol. 167, No. 4247, page 475, 1951.
Geophysical Abstracts 147, Item 13140, 1951.
- 8750 TILLOTSON, Ernest, "Earthquakes During 1953", *Nature*, No. 4403, Vol. 173, 531-532, London, March 20, 1954.
- TIMONEY, J. R., and INGRAM, R. E., S.J., "Theory of an Inverted Pendulum with Trifilar Suspension". See No. 8629 of this list.
- 8751 TOMASCHEK, R., "The Tides of the Solid Earth and Their Geophysical and Geological Significance", *Nature*, No. 4395, Vol. 173, 143-145, 3 fig., 2 tab., bib., London, Jan. 23, 1954.
- 8752 TOWLES, H. C., Jr., "A Study in Integration of Geology and Geophysics", *Geophysics*, Vol. 17, No. 4, 876-899, 1952.
Geophysical Abstracts 151, Item 14104, 1952.
- 8753 TRESKOV, A. A., and GOLENETSKIY, S. I., "The Hypocentral Method", *Akad. Nauk SSSR Geofiz. Inst. Trudy* No. 14 (141), 13-20, 1952.
Geophysical Abstracts 152, Item 14289, 1953.
- 8754 TRYGGVASON, Eysteinn, "Earthquakes in Iceland 1953," (summary in English), *Naturufraedingurinn*, Year 24, 1-6, 1954.
- TSUJIURA, Masaru, MATUMOTO, Hideteru, and MIYAMURA, Setumi, "Tele-recording of Seismic Wave Forms by High Frequency Base Line Carrier Waves". See No. 8677 of this list.
- TUVE, M. A., and TATEL, H. E., "Note on the Nature of a Seismogram. I". See No. 8747 of this list.
- TUVE, M. A., TATEL, H. E., and ADAMS, L. H., "Studies of the Earth's Crust Using Waves from Explosions". See No. 8746 of this list.
- UFFEN, R. J., MISENER, A. D., and JACOBS, J. A., "Temperature Distribution within the Earth's Core". See No. 8633 of this list.
- 8755 USAMI, Tatsuo, "On the Effect of Ocean upon Rayleigh Waves, *Tokyo Univ. Geophys. Inst. Geophys. Notes*, Vol. 3, No. 37, 6 pages, 1950.
Geophysical Abstracts 146, Item 12926, 1951.
- 8756 VAJK, Raoul, "Devices for the Construction of Refracted Rays", *Geophysics*, Vol. 19, No. 2, 237-241, 6 fig., Menasha, April, 1954.
- 8757 VALLE, P. E., "Sull' omogeneità e sullo stato di equilibrio del mantello interno della Terra", *Annali di Geofisica*, Vol. 7, No. 1, 33-44, 4 tab., bib., Rome, Jan., 1954.
- 8758 VANEK, J., "Determination of Earthquake Magnitude from Surface Waves for the Stations Hurbanovo and Skalnaté Pleso", *Travaux Géophysiques 1953, Nakladatelstvi Ceskoslovenske Akademie Ved*, No. 6, page 88, Prague, 1954.
- J.V.
- VANEK, J., and KÁRNÍK, V., "Travel Times of P and S Waves for Praha". See No. 8643 of this list.

- 8759 VAN MELLE, F. A., "Note on 'The Primary Seismic Disturbance in Shale' by N. Ricker and W. A. Sarge", *Bulletin, Seismological Society of America*, Vol. 44, No. 2A, 123-125, Berkeley, April, 1954.
- 8760 VASIL'EV, Yu. V., "Determination of the Absorption Coefficient of Seismic Waves", (in Russian), *Akad. Nauk SSSR Izv. Ser. Geofiz.*, No. 4, 31-42, 1951.
Geophysical Abstracts 147, Item 13220, 1951.
- 8761 VEITSMAN, P. S., "Selection of Distances Between Seismographs Subdivided into Groups for Weakening of Disturbing Background Noise", *Akad. Nauk. SSSR Izv., Ser. Geofiz.*, No. 3, 48-54, 1952.
Geophysical Abstracts 152, Item 14285, 1953.
- 8762 WADATI, K., and INOUE, W., "On the T-phase of Seismic Waves Observed in Japan", *Geophysical Magazine*, Vol. 25, No. 3-4, 159-165, 4 fig., 1 tab., bib., Tokyo, March, 1954.
- 8763 WADATI, K., and IWAI, Y., "The Minute Investigation of Seismicity in Japan", *Geophysical Magazine*, Vol. 25, No. 3-4, 167-173, 4 fig., bib., Tokyo, March, 1954.
- WEBER, Max, and GASSMANN, Fritz, "Vibrometer with Electronically Adjustable Constants". See No. 8606 of this list.
- 8764 WEISS, Oscar, "Problems of Seismic Work on Canadian Coral Reefs", *Oil in Canada*, Vol. 3, No. 46, 34-36, 1951.
Geophysical Abstracts 147, Item 13217, 1951.
- WELLS, W. M., ALLEN, C. F., and LOMBARDI, L. V., "The Application of the Reflection Seismograph to Near-surface Exploration". See No. 8547 of this list.
- WESLEY, R. H., and JOHNSON, A. M., "Application of Seismic Methods to Foundation Exploration, in Symposium on Surface and Subsurface Reconnaissance". See No. 8636 of this list.
- 8765 WESTERHAUSEN, H., "Über die Ortung mikroseismischer Unruheherde", *Annali di Geofisica*, Vol. 7, No. 1, 71-124, 47 fig., 7 tab., bib., Rome, Jan., 1954.
- WILSON, R. M., BURGESS, L. R., PEARCE, T. H., and MURPHY, L. M., "Response Curves of an Electromagnetic Seismograph by Sine-wave Simulator Method". See No. 8685 of this list.
- 8766 YEPINAT'YEVA, A. M., "Secondary Pressure-bubble Pulses in Seismic Exploration", (in Russian), *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 4, 43-60, 1951.
Geophysical Abstracts 147, Item 13222, 1951.
- 8767 YEPINAT'YEVA, A. M., "A Method of Determining the Difference Between the Coefficients of Absorption of Seismic Waves", *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 3, 70-77, 1952.
Geophysical Abstracts 151, Item 14108, 1952.
- 8768 YEPINAT'YEVA, A. M., "On Some Seismic Waves with Late Times of Arrival", *Akad. Nauk SSSR Izv., Ser. Geofiz.* No. 6, 21-38, 1952.
Geophysical Abstracts 152, Item 14294, 1953.
- 8769 YOSHIKAWA, Soji, "On Wave-forms of Deepseated Earthquakes Characterized by Their Positions of Focuses", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 7, No. 1, 4 fig., Tokyo, May, 1954.

- 8770 YOSHIMURA, Juichi, "On the Variation of *P* Wave, Travel-time and the Occurrence of Earthquakes", (Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 6, No. 4, page 14, 11 fig., Tokyo, March, 1954.
- 8771 ZAITSEV, L. P., and ZVOLINSKII, N. V., "Investigation of the Frontal Wave Appearing on the Boundary of Two Elastic Media", (in Russian), *Akad. Nauk SSSR Izv., Ser Geofiz.* No. 1, 20-39, 1951.
Geophysical Abstracts 147, Item 13143, 1951.
- 8772 ZAITSEV, L. P., and ZVOLINSKII, N. V., "Investigation of the Axis-symmetrical Front Wave, Generated on the Boundary of Two Elastic Liquids", (in Russian), *Akad. Nauk SSSR Izv., Ser. Geofiz.*, No. 5, 40-50, 1951.
Geophysical Abstracts 147, Item 13144, 1951.
- ZVOLINSKII, N. V., and ZAITSEV, L. P., "Investigation of the Frontal Wave Appearing on the Boundary of Two Elastic Media". See No. 8771 of this list.
- ZVOLINSKII N. V., and ZAITSEV, L. P., "Investigation of the Axis-symmetrical Front Wave, Generated on the Boundary of Two Elastic Liquids". See No. 8772 of this list.

LIST OF COLLABORATORS

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

JENNEMANN, Vincent F., Stanolind Oil and Gas Company, P.O. Box 371, Carlsbad, New Mexico.

V.F.J.

VANEK, Jiri, Ceskoslovenska Akademie Ved, Geofysikalni Ustav Kladenska 60, Praha XIX—Vokovice, Czechoslovakia.

J.V.