

CANADA
DEPARTMENT OF MINES AND TECHNICAL SURVEYS
DOMINION OBSERVATORIES

PUBLICATIONS

OF THE

Dominion Observatory
OTTAWA

VOLUME XIV

Bibliography of Seismology

No. 19

Items 9382 - 9627

January to June, 1956

BY

W. E. T. SMITH

EDMOND CLOUTIER, C.M.G., O.A., D.S.P.,
QUEEN'S PRINTER AND CONTROLLER OF STATIONERY
OTTAWA, 1957

1078-900-1957

Domino Openings
Outline
Volume 1
by
John N. Gandy
and
John C. Sauer

Domino Openings
Outline
Volume 1
by
John N. Gandy
and
John C. Sauer

Bibliography of Seismology

January to June, 1956

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 Cientifica 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>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>	Rome
<i>Geofyzikalni Sbornik, Nakladatelstvi Ceskoslovenske Akademie Ved</i>	Prague
<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 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 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>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 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, 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>Publications of the Isostatic Institute of the International Association of Geodesy</i>	Helsinki
<i>Quarterly Journal of the Geological Society of London Science</i>	London
<i>Science News Letter</i>	Washington
<i>Science Progress</i>	Washington
<i>Science Reports of the Tohoku University, Geophysics</i>	London
<i>Scientific American</i>	Sendai
<i>Scientific Monthly</i>	New York
<i>Tellus</i>	Lancaster
<i>Transactions of the American Geophysical Union</i>	Stockholm
<i>Urania</i>	Washington
<i>Volcano Letter</i>	Madrid
<i>Zisin, Journal of the Seismological Society of Japan</i>	Kilauea
	Tokyo

- 9382 ADAM, O., "Causes of Non-reflection of Some Southwestern Transdanubian Areas," (in Hungarian with English Summary) *Geofiz. Közlem.*, Vol. 4, No. 1, 3-10, 1955.
Trans. A.G.U.

- 9383 ADAMS, W. M., "The Reeff Horizontal Seismograph and Its Calibration," *Transactions, American Geophysical Union*, Vol. 37, No. 1, 70-74, 6 fig., bib., Washington, Feb., 1956.

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

- 9384 AGOCs, W. B., "Report of the XIX International Geological Congress," *Geophysics*, Vol. 18, No. 1, 214-224, Menasha, 1953.
- 9385 ANDREWS, A. B., "Photomechanical Wave Analyzer for Seismic Wave Analysis," *Pa. State Univ., Mineral Industries Exp. Sta. Project C-12, U.S. Navy Contr. N6-onr-26918, Tech. Rep. 4*, 24 pages, 1954.
Trans. A.G.U.
- 9386 ANSTEY, N. A., "Instrumental Distortion and the Seismic Record," *Geophysical Prospecting*, Vol. 4, No. 1, 37-55, 12 fig., bib., The Hague, March, 1956.
- 9387 ARONS, A. B., "Underwater Explosion Shock Wave Parameters at Large Distance from the Charge," *J. Acoust. Soc. Amer.*, Vol. 26, No. 3, 343-346, 1953 (Abst. in *Bul. An. CNRS, 1st pt.*, Vol. 16, No. 1, page 578, 1955).
Trans. A.G.U.
- 9388 BATH, M., "The Microseismic Time Lag Problem," *Pontif. Acad. Sci., Scripta Varia*, Vol. 12, 279-291, 1952, 1954 (abstract in *Bul. An. CNRS 1st pt.*, Vol. 16, No. 9, page 4839, 1955).
Trans. A.G.U.
- 9389 BAUMGARTE, J., "Konstruktive Darstellung von seismischen Horizonten unter Berücksichtigung der Strahlenbrechung im Raum," *Geophysical Prospecting*, Vol. 3, No. 2, 126-162, 16 fig., bib., The Hague, June, 1955.
- 9390 BEGUN, S. J., "Magnetic Tape Improves Geophysical Recordings," *Electronics*, Vol. 28, No. 1, 152-155, Jan., 1955.
- 9391 BENIOFF, Hugo, "Evidence for World Strain Readjustment Following the Kamchatka Earthquake of 4 November 1952," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1332, New York, Dec., 1954.
- 9392 BENIOFF, Hugo, "Fused Quartz Earth Strain-meter," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1333, New York, Dec., 1954.
- 9393 BENIOFF, Hugo, "Long-period Vertical-component Seismometer," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1333, New York, Dec., 1954.
- 9394 BENIOFF, Hugo, "Quartz Crystal Clock," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1333, New York, Dec., 1954.
- 9395 BENIOFF, Hugo, "Strain Characteristics of the Kern County Earthquake Sequence, 1952-1953," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1334, New York, Dec., 1954.

- 9396 BENIOFF, Hugo, "Origin and Propagation of the Seismic Pulse—Continued," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1642, New York, Dec., 1955.
- 9397 BENIOFF, Hugo, "Seismic Energy and Spectrum as Related to the Strain and Size at the Source," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1643, New York, Dec., 1955.
- 9398 BENIOFF, Hugo, and BLAYNEY, Len, "Transistor Operation of the Variable Discriminator Seismograph," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1643, New York, Dec., 1955.
- BENIOFF, H., and GUTENBERG, B., "An Investigation of Microseisms—Final Report under Contract No. AF 19(122)436." See No. 9460 of this list.
- 9399 BENIOFF, H., GUTENBERG, B., PRESS, F., and RICHTER, C. F., "Progress Report, Seismological Laboratory, California Institute of Technology, 1955," *Transactions, American Geophysical Union*, Vol. 37, No. 2, 232-238, 3 fig., Washington, April, 1956.
- 9400 BENTLEY, C. R., and WORZEL, J. L., "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain. Part X: Continental Slope and Continental Rise South of the Grand Banks," *Bulletin, Geological Society of America*, Vol. 67, No. 1, 1-18, 8 fig., bib., New York, Jan., 1956.
- 9401 BERCKHEMER, Hans, "Rayleigh-wave Dispersion and Crustal Structure in the East Atlantic Ocean Basin," *Bulletin, Seismological Society of America*, Vol. 46, No. 2, 83-86, 3 fig., 3 tab., Berkeley, April, 1956.
- 9402 BERG, J. W., "Effect of Stemming on the Energy Content of Explosion-generated Seismic Pulses," *Pa. State Univ., Mineral Industries Exp. Sta. Project C-12, U.S. Navy Contr. N6-onr-26918 Tech. Rep. 3*, 23 pages, 1954.
Trans. A.G.U.
- 9403 BERNARD, P., "Etude d'une tempête microséismique dans les stations côtières de l'Atlantique Nord," *Bulletin d'Information du Comité Central d'Océanographie et d'Etude des Côtes*, Vol. 8, No. 2, Feb., 1956.
- 9404 BERNARD, P., "Enregistrements de microséismes sur la côte de la Manche," *Bul. Inf. Comité Centr. Oceanogr.*, Vol. 8, No. 1, 21-31, 1956.
Trans. A.G.U.
- 9405 BERSON, I. S., "Pouvoir séparateur des méthodes sismiques appliquées à l'étude des milieux à couches horizontales," (in Russian) *Izvest. Akad. Nauk SSSR, Ser. geofiz.*, No. 1, 26-48, 1954, (abst. in *Bul. An. CNRS, 1st pt.*, Vol. 16, No. 1, page 582, 1955).
Trans. A.G.U.

- 9406 BIRKENHAUER, H. F., S.J., "Father Macelwane and the Jesuit Seismological Association," *Earthquake Notes*, Vol. 27, No. 2, 12-13, Washington, June, 1956. (This issue of *Earthquake Notes*, is entirely devoted to the life and works of the late Rev. James Bernard Macelwane, S.J.).
- BLAYNEY, Len, and BENIOFF, Hugo, "Transistor Operation of the Variable Discriminator Seismograph." See No. 9398 of this list.
- 9407 BLUM, V. J., S.J., "James Bernard Macelwane, S.J.," (obituary), *Transactions, American Geophysical Union*, Vol. 37, No. 2, 135-136, 1 photo., Washington, April, 1956.
- 9408 BLUM, V. J., S.J., "Sketch of the Life of James Bernard Macelwane, S.J.," *Earthquake Notes*, Vol. 27, No. 2, 9-11, Washington, June, 1956. (This issue of *Earthquake Notes* is entirely devoted to the life and works of the late Rev. James Bernard Macelwane, S.J.).
- 9409 BONELLI, J., "Nota acerca del sismo de foco profundo de 29 de marzo de 1954," *Rev. Geofis.*, Vol. 13, No. 49, 113-116, 1954.
Trans. A.G.U.
- 9410 BONINI, W. E., "Seismic-refraction Studies of Geologic Structure in North Carolina and South Carolina," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1532, New York, Dec., 1955.
- BOUCHON, M., and REPAL, S. N., "Etude tellurique dans le bassin du Hodna." See No. 9558 of this list.
- 9411 BRINCKMEIER, G., "Team Work in Seismic Prospecting," *Geophysical Prospecting*, Vol. 4, No. 2, 105-111, The Hague, June, 1956.
- BROWN, M. V., and CARLSON, R. O., "Seismic-refraction Profiles in the Submerged Atlantic Coastal Plain Near Ambrose Lightship." See No. 9418 of this list.
- 9412 BROWN, R. K., "Measurement of the Velocity of Sound in the Ocean," *J. Acoust. Soc. Amer.*, Vol. 26, No. 1, page 64, Jan., 1954.
- BUDENSTEIN, D., and HOWELL, B. F., Jr., "Energy Distribution in Explosion-generated Seismic Pulses." See No. 9480 of this list.
- BUNCE, E. T., HERSEY, J. B., EDWARDS, R. S. and JOHNSON, H. R., "Seismic Observations in Deep and Shallow Water Southeast of North Carolina and South Carolina." See No. 9472 of this list.

- 9413 BUWALDA, J. P., and ST. AMAND, Pierre, "Altitude and Nature of Movement on White Wolf Fault During Arvin-Tehachapi Earthquake of July 21, 1952," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1335, New York, Dec., 1954.
- BYCROFT, G. N., and MURPHY, M. J., "The Response of a Nonlinear Oscillator to an Earthquake." See No. 9523 of this list.
- 9414 BYERLY, Perry, "The Fallon-Stillwater Earthquakes of July 6, 1954, and August 23, 1954; Historic Introduction," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 1-3, 1 fig., Berkeley, Jan., 1956.
- 9415 BYERLY, Perry, "James B. Macelwane, Seismologist and Teacher," (obituary), *Science*, No. 3208, Vol. 123, page 1109, Washington, June 22, 1956.
- 9416 BYERLY, Perry, and TULLER, Burl, "TP Wave," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1335, New York, Dec., 1954.
- 9417 CALOI, P., and MARCELLI, L., "Onde superficiali attraverso il bacino dell'Atlantico," *Annali di Geofisica*, Vol. 5, No. 3, 397-407, 5 fig., bib., Rome, 1952.
- 9418 CARLSON, R. O., and BROWN, M. V., "Seismic-refraction Profiles in the Submerged Atlantic Coastal Plain Near Ambrose Lightship," *Bulletin, Geological Society of America*, Vol. 66, 969-976, 5 fig., 1 pl., New York, Aug., 1955.
- CASERTANO, L., and IMBO, G., "Profondità ipocentrali e coefficienti di assorbimento per zone Etnee." See No. 9482 of this list.
- 9419 CHRISTIE, D. G., "Reflection of Elastic Waves from a Free Boundary," *Philosophical Magazine*, No. 376, Vol. 46, 527-541, May, 1955. A review by Milton B. Dobrin, appears in *Geophysics*, Vol. 21, No. 1, page 206, Menasha, Jan., 1956.
- 9420 CLAY, C. S., and MCNEIL, Halcyon, "An Amplitude Study on a Seismic Model," *Geophysics*, Vol. 20, No. 4, 766-773, 3 fig., Menasha, Oct., 1955.
- 9421 CLOSS, H., "Práctica de la reflexión sismica en Alemania," *Rev. Geofis.*, Vol. 13, No. 49, 77-103, 1954.
Trans. A.G.U.
- 9422 CLOUD, William K., "Intensity Distribution and Strong-Motion Seismograph Results, Nevada Earthquakes of July 6, 1954, and August 23, 1954," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 33-40, 4 fig., Berkeley, Jan., 1956.
- COKER, F. B., PETERSON, R. A., and FILLIPPONE, W. R., "The Synthesis of Seismograms from Well Log Data." See No. 9545 of this list.

- 9423 COLLINS, Francis, and LEE, C. C., "Seismic Wave Attenuation Characteristics from Pulse Experiments," *Geophysics*, Vol. 21, No. 1, 16-40, 7 fig., bib., Menasha, Jan., 1956.
- 9424 DAS GUPTA, S. C., "Waves and Stresses Produced in an Elastic Medium Due to Impulsive Radial Forces and Twist on the Surface of a Spherical Cavity," *Geofisica Pura e Applicata*, Vol. 27, 1-6, 5 fig., Milan, 1954.
- 9425 DEBRACH, J., "Note preliminaire sur un seisme de profondeur exceptionnelle ressenti dans la peninsule ibérique et au Maroc (29 mars 1954)," *C.-R. Soc. Sci. Nat. Maroc*, No. 4, 97-98, 1954 (abst. in *Bul. An. CNRS, 1st pt.*, No. 1, page 583, 1955).
Trans. A.G.U.
- 9426 DEBRACH, J., "Deuxieme note sur le seisme beti corifain profond survenu le 29 mars 1954, Isoseistes sur Moroc," *C.-R. Soc. Sci. Nat. Maroc*, No. 5, 115-117, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 16, No. 1, page 583, 1955).
Trans. A.G.U.
- DENNISON, A. T., and JONES, W. M., "A Low-frequency Refraction Geophone." See No. 9486 of this list.
- 9427 DENTON, E. R., "Continuous Velocity Logging Supplements Seismic Data," *Oil in Canada*, Vol. 7, No. 17, 26-28, Feb., 1955.
- 9428 DEUPREE, J., "Proper Plugging of Shot Holes a Must," *World Oil*, Vol. 138, No. 2, 87-88, Feb., 1954.
- 9429 DIETZ, R. S., and SHEEHY, M. J., "Transpacific Detection of Myojins Volcanic Explosions by Underwater Sound," *Bulletin, Geological Society of America*, Vol. 65, 941-956, 4 pl. New York, Oct., 1954.
- 9430 DIGEST, J. J., "On the Bradyseism at Pozzuoli According to Levelling Measurements Carried Out by IGM till 1953," *Bol. Geod. Sci. Aff.*, Vol. 13, No. 4, 361-372, 1954.
- 9431 DIX, C. H., "Mechanism of Surface-wave Generation," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1337, New York, Dec., 1954.
- 9432 DIX, C. H., "Seismic Velocities from Surface Measurements," *Geophysics*, Vol. 20, No. 1, 68-86, 10 fig., Menasha, Jan., 1955.
- DOBRIN, Milton B., and PRESS, Frank, "Seismic Wave Studies Over a High-speed Surface Layer." See No. 9552 of this list.
- 9433 DOBRIN, M. B., and VAN NOSTRAND, R. Y., "Review of Current Developments in Exploration Geophysics," *Geophysics*, Vol. 21, No. 1, 142-155, 11 fig., Menasha, Jan., 1956.

- 9434 DOMZALSKI, W., "Some Problems of Shallow Refraction Investigations," *Geophysical Prospecting*, Vol. 4, No. 2, 140-166, 10 fig., bib., The Hague, June, 1956.
- DONN, W. L., and EWING, Maurice, "Studies of Microseisms from Selected Areas." See No. 9441 of this list.
- 9435 DONN, W. L., EWING, Maurice, and PRESS, Frank, "Performance of Resonant Seismometers," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1338, New York, Dec., 1954.
- DONN, W. L., EWING, Maurice, PRESS, Frank, OLIVER, Jack, and SHURBET, D. H., "Short-period Surface Waves at Continental Margins." See No. 9445 of this list.
- 9436 EASON, G., FULTON, J., and SNEDDON, I. N., "The Generation of Waves in an Infinite Elastic Solid by Variable Body Forces," *Philosophical Transactions, Royal Society of London*, No. 955, Vol. 248, 575-607, 9 fig., bib., London, March 1, 1956.
- EDWARDS, R. S., JOHNSON, H. R., BUNCE, E. T., and HERSEY, J. B., "Seismic Observations in Deep and Shallow Water Southeast of North Carolina and South Carolina." See No. 9472 of this list.
- EDWARDS, R. S., JOHNSON, H. R., OFFICER, C. B., and EWING, J., "Geophysical Investigations in the Eastern Caribbean, Venezuelan Basin, Aves Swell, Grenada Trough, Lesser Antilles, Puerto Rico, and Puerto Rico Trough". See No. 9533 of this list.
- EDWARDS, T. E., and HALES, F. W., "Some Theoretical Considerations on the Use of Multiple Geophones Arranged Linearly Along the Line of Traverse." See No. 9464 of this list.
- 9437 ENGLE, H. M., "Earthquake Resistance of Addition to Harold's Club in Reno, Nevada," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1339, New York, 1954.
- ERICSON, D. B., HEEZEN, B. C., EWING, Maurice, and WORZEL, J. L., "Geophysical and Geological Investigations in the Gulf of Mexico, Part I." See No. 9446 of this list.
- 9438 EVERNDEN, J. F., "Tripartite Results for the Kamchatka Earthquake of 4 November 1952," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1649, New York, Dec., 1955.
- 9439 EVERNDEN, J. F., "Finite-strain Theory and the Earth's Interior," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1648, New York, Dec., 1955.

- EWING, J., EDWARDS, R. S., JOHNSON, H. R., and OFFICER, C. B., "Geophysical Investigations in the Eastern Caribbean, Venezuelan Basin, Aves Swell, Grenada Trough, Lesser Antilles, Puerto Rico, and Puerto Rico Trough." See No. 9533 of this list.
- 9440 EWING, Maurice, "Periods of Seismic Waves and Mantle Structure," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 379-380, Washington, June, 1956.
- 9441 EWING, Maurice, and DONN, W. L., "Studies of Microseisms from Selected Areas," *Pontif. Acad. Sci., Scripta Varia*, Vol. 12, 351-365, 1952, 1954 (abst. in *Bul. An. CNRS, 1st pt.*, Vol. 16, No. 9, page 4389, 1955).
- Trans. A.G.U.
- EWING, Maurice and KATZ, Samuel, "Seismic-refraction Measurements in the Atlantic Ocean. Part VII: Atlantic Ocean Basin, West of Bermuda." See No. 9488 of this list.
- EWING, Maurice, and LANDISMAN, Mack, "T Phase at Papeete Tahiti." See No. 9499 of this list.
- EWING, Maurice, OLIVER, Jack, and PRESS, Frank, "Dispersion of Rayleigh Waves Crossing Africa." See No. 9554 of this list.
- EWING, Maurice, OLIVER, Jack, and PRESS, Frank, "Crustal Structure and Surface-wave Dispersion in Africa." See No. 9555 of this list.
- 9442 EWING, Maurice, and PRESS, Frank, "Propagation of Elastic Waves in the Ocean with Reference to Microseisms," *Pontif. Acad. Sci., Scripta Varia*, Vol. 12, 121-129, 1952, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 16, No. 9, page 4839, 1955).
- Trans. A.G.U.
- 9443 EWING, Maurice, and PRESS, Frank, "Rayleigh Wave Dispersion in the Period Range 10 to 500 Seconds," *Transactions, American Geophysical Union*, Vol. 37, No. 2, 213-215, 1 fig., bib., Washington, April, 1956.
- EWING, Maurice, and PRESS, Frank, "Waves with P_n and S_n Velocity at Great Distances." See No. 9553 of this list.
- EWING, Maurice, PRESS, Frank, and DONN, W. L., "Performance of Resonant Seismometers." See No. 9435 of this list.
- 9444 EWING, Maurice, PRESS, Frank, and OLIVER, Jack, "Dispersion of Love Waves Crossing the United States," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1649, New York, Dec., 1955.

- EWING, Maurice, PRESS, Frank, and OLIVER, Jack, "Crustal Structure and Surface-wave Dispersion." See No. 9534 of this list.
- EWING, Maurice, PRESS, Frank, and OLIVER, Jack, "Crustal Structure of the Arctic Regions from the L_s Phase." See No. 9535 of this list.
- EWING, Maurice, PRESS, Frank, and OLIVER, Jack, "Crustal Structure of the Indian Ocean Basin from Rayleigh-wave Dispersion." See No. 9536 of this list.
- 9445 EWING, Maurice, PRESS, Frank, OLIVER, Jack, SHURBET, D. H., and DONN, W. L., "Short-period Surface Waves at Continental Margins," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1340, New York, Dec., 1954.
- 9446 EWING, Maurice, WORZEL, J. L., ERICSON, D. B., and HEEZEN, B. C., "Geophysical and Geological Investigations in the Gulf of Mexico, Part I," *Geophysics*, Vol. 20, No. 1, 1-18, 18 fig., bib., Menasha, Jan., 1955.
- 9447 FAVRE, B., "Détermination de la position dans l'espace d'un miroir situé sous un réfracteur séparant deux milieux de vitesses différentes à partir des données d'un tir en croix isolé," *Geophysical Prospecting*, Vol. 3, No. 4, 339-349, 9 fig., The Hague, Dec., 1955.
- FILLIPPONE, W. R., COKER, F. B., and PETERSON, R. A., "The Synthesis of Seismograms from Well Log Data." See No. 9545 of this list.
- 9448 FORDHAM, G. W., "Atmospheric Electricity and Geophysical Operation," *Geophysics*, Vol. 20, No. 3, 638-653, 16 fig., Menasha, July, 1955.
- 9449 FREEMAN, N. C., "A Theory of the Stability of Plane Shock Waves," *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1174, Vol. 228, 341-362, bib., London, March 8, 1955.
- FULTON, J., SNEDDON, I. N., and EASON, G., "The Generation of Waves in an Infinite Elastic Solid by Variable Body Forces." See No. 9436 of this list.
- 9450 GADD, G. E., HOLDER, D. W., and REGAN, J. D., "An Experimental Investigation of the Interaction between Shock Waves and Boundary Layers," *Proceedings of the Royal Society of London, Series A, Mathematical and Physical Sciences*, No. 1165, Vol. 226, 227-253, 25 fig., bib., London, Nov. 9, 1954.
- GAL'PERIN, E. J., and GAMBURTSEV, G. A., "Methode d'étude des seismes par les correlations." See No. 9451 of this list.

- 9451 GAMBURTCEV, G. A., and GAL'PERIN, E. J., "Methode d'étude des seismes par les correlations," (in Russian) *Izvest. Akad. Nauk SSSR, Ser. Geofiz.*, No. 1, 3-10, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 16, No. 1, page 582, 1955).

Trans. A.G.U.

- GARDNER, L. W., WYLLIE, M. R. J., and GREGORY, A. R., "Elastic Wave Velocities in Heterogeneous and Porous Media." See No. 9626 of this list.

- 9452 GASKELL, T. F., "Seismic Prospecting in the Deep Oceans," *Petroleum Times*, Vol. 57, No. 1470, 1227-1230, Dec. 11, 1953.

- 9453 GASKELL, T. F., "The Relation Between Size of Charge and Amplitude of Refracted Wave," *Geophysical Prospecting*, Vol. 4, No. 2, 185-193, 2 fig., bib., The Hague, June, 1956.

- GEREBEN, L., SZENAS, Gy., "An Application of Seismic Refraction Method in Exploration for Bauxite." See No. 9593 of this list.

- 9454 GIANELLA, N. P., "Faulting and the Nevada Earthquakes of 1915, 1932, and 1954," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1650, New York, Dec., 1955.

- 9455 GIORGI, M., and ROSINI, E., "Sur l'origine des microséismes intéressant la Méditerranée," *Pontif. Acad. Sci. Scripta Varia*, Vol. 12, 293-331, 1952, 1954 (abst. in *Bul. An. CNRS. 1st pt.*, Vol. 16, No. 9, page 4839, 1955).

Trans. A.G.U.

- GREGORY, A. R., GARDNER, L. W., and WYLLIE, M. R. J., "Elastic Wave Velocities in Heterogeneous and Porous Media." See No. 9626 of this list.

- 9456 GUTENBERG, Beno, "Slip Direction in Earthquakes Calculated from Observed Ratios SH/SV ," (abstract) *Bulletin, Geological Society of America*, Vol. 65, page 1342, New York, Dec., 1954.

- 9457 GUTENBERG, Beno, "Channel Waves in the Earth's Crust," *Geophysics*, Vol. 20, No. 2, 283-294, 5 fig., Menasha, April, 1955.

- 9458 GUTENBERG, Beno, "Low-velocity Lithosphere Channel," *Bulletin, Geological Society of America*, Vol. 66, 1203-1204, New York, Sept., 1955.

- 9459 GUTENBERG, Beno, "Structure of Earth's Interior," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, page 379, Washington, June, 1956.

- 9460 GUTENBERG, B., and BENIOFF, H., "An Investigation of Microseisms—Final Report under Contract No. AF 19(122)436," *California Institute of Technology, Division of Geological Sciences Contribution No. 761*, 39 pages, 10 fig., 4 tab., Pasadena, Feb. 29, 1956.
- GUTENBERG, B., PRESS, F., RICHTER, C. F., and BENIOFF, H., "Progress Report, Seismological Laboratory, California Institute of Technology, 1955," See No. 9399 of this list.
- 9461 GUTENBERG, Beno, and RICHTER, C. F., "Magnitude and Energy: Progress Report," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1651, New York, Dec., 1955.
- 9462 GUTENBERG, B., and RICHTER, C. F., "Earthquake Magnitude, Intensity, Energy, and Acceleration (Second Paper)," *Bulletin, Seismological Society of America*, Vol. 46, No. 2, 105-146, 10 fig., 20 tab., Berkeley, April, 1956.
- GUTENBERG, B., and RICHTER, C. F., "Seismicity of Southern California." See No. 9564 of this list.
- 9463 HAGEDOORN, J. G., "Templates for Fitting Smooth Velocity Functions to Seismic Refraction and Reflection Data," *Geophysical Prospecting*, Vol. 3, No. 4, 325-338, 5 fig., The Hague, Dec., 1955.
- 9464 HALES, F. W., and EDWARDS, T. E., "Some Theoretical Considerations on the Use of Multiple Geophones Arranged Linearly Along the Line of Traverse," *Geophysical Prospecting*, Vol. 3, No. 1, 65-73, 5 fig., The Hague, March, 1955.
- HALES, F. W., and MUIR, F., "A Rational Approach to the Design of Electrical Filters and of Shot-hole and Geophone Patterns in Seismic Reflection Prospecting." See No. 9521 of this list.
- 9465 HARDTWIG, E., "Ueber die Formanderung mikroseismischer Wellen während des Ausbreitungsvor-gange," *Pontif. Acad. Sci. Scripta Varia*, Vol. 12, 367-388, 1952, 1954 (abst. in *Bul. An. CNRS. 1st. pt.*, Vol. 16, No. 9, page 4839, 1955).
Trans. A.G.U.
- 9466 HEE, Madame A., "La construction aséismique et l'assurance contre les tremblements de terre," *Travaux nord-Africains*, 42 pages, 3 fig., Alger, 1955.
F.M.
- HEEZEN, B.C., EWING, Maurice, WORZEL, J. L., and ERICSON, D. B., "Geophysical and Geological Investigations in the Gulf of Mexico, Part I." See No. 9446 of this list.

- 9467 HEINRICH, R. R., "James B. Macelwane, S.J., Scholar," *Earthquake Notes*, Vol. 27, No. 2, 13-15, Washington, June, 1956. (This issue of *Earthquake Notes* is entirely devoted to the life and works of the late Rev. James Bernard Macelwane, S.J.).
- 9468 HELBIG, K., "Die Ausbreitung elastischer Wellen in anisotropen Medien," *Geophysical Prospecting*, Vol. 4, No. 1, 69-81, 14 fig., bib., The Hague, March, 1956.
- HELBIG, K., and KREY, Th., "A Theorem Concerning Anisotropy of Stratified Media and Its Significance for Reflection Seismics." See No. 9497 of this list.
- 9469 HELFENSTEIN, H. G., "Graphical Determination of a Discontinuity Surface by Wave Reflection," *Quarterly of Applied Mathematics*, Vol. 14, No. 1, 93-97, 2 fig., bib., April, 1956.
- 9470 HENNES, R. G., "Research into the Natural Frequency of Soils," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1342, New York, Dec., 1954.
- 9471 HERMONT, A. J., "Design Principles for Seismic Reflection Amplifiers," *Geophysical Prospecting*, Vol. 4, No. 3, 279-293, 6 fig., The Hague, Sept., 1956.
- 9472 HERSEY, J. B., EDWARDS, R. S., JOHNSON, H. R., and BUNCE, E. T., "Seismic Observations in Deep and Shallow Water Southeast of North Carolina and South Carolina," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1573, New York, Dec., 1955.
- HIBBARD, H. C., and LEVIN, F. K., "Three-dimensional Seismic Model Studies." See No. 9502 of this list.
- HIRONO, T., and WADATI, K., "Magnitude of Earthquakes—Especially of Near, Deep-focus Earthquakes." See No. 9613 of this list.
- 9473 HODGSON, Ernest A., "The Contribution of Father Macelwane to the Founding of the Eastern Section, Seismological Society of America," *Earthquake Notes*, Vol. 27, No. 2, 11-12, Washington, June, 1956. (This issue of *Earthquake Notes* is entirely devoted to the life and works of the late Rev. James Bernard Macelwane, S.J.).
- 9474 HODGSON, J. H., "Direction of Faulting in Pacific Earthquakes," *Geofisica Pura e Applicata*, Vol. 32, No. 3, 31-42, 8 fig., 3 tab., bib., Milan, Sept.-Dec., 1955.
- 9475 HODGSON, J. H., "A Seismic Probability Map for Canada," *Canadian Underwriter*, Vol. 23, No. 7, 2 fig., bib., April 1, 1956.

- HODGSON, J. H., and WILLMORE, P. L., "Charts for Measuring Azimuth and Distance and for Tracing Seismic Rays through the Earth." See No. 9622 of this list.
- HOLDER, D. W., REGAN, J. D., and GADD, G. E., "An Experimental Investigation of the Interaction between Shock Waves and Boundary Layers." See No. 9450 of this list.
- 9476 HOMMA, S., "Rayleigh Waves in a Medium with Superficial Double Layers," *The Geophysical Magazine*, Vol. 27, No. 1, 17-34, 2 fig., 1 tab., Tokyo, Jan., 1956.
- 9477 HOMMA, S., "Boundary Waves of Longitudinal Type Along a Continuously Varying Intermediate Layer," *The Geophysical Magazine*, Vol. 27, No. 1, 35-59, bib., Tokyo, Jan., 1956.
- 9478 HORTON, C. W., "The Structure of the Noise Background of a Seismogram," *Geophysics*, Vol. 20, No. 3, 565-584, 13 fig., Menasha, July, 1955.
- 9479 HOUSNER, G. W., "Energy Dissipated in Structural Vibrations During Strong Earthquake Ground Motion," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1653, New York, Dec., 1955.
- HOUSNER, G. W., and MERRITT, R. G., "Effect of Foundation Compliance on Earthquake Stresses in Multistory Buildings." See No. 9515 of this list.
- 9480 HOWELL, B. F., Jr., and BUDENSTEIN, D., "Energy Distribution in Explosion-generated Seismic Pulses," *Geophysics*, Vol. 20, No. 1, 33-52, 12 fig., Menasha, Jan., 1955.
- 9481 HUGHES, D. S., and MAURETTE, Christian, "Variation of Elastic Wave Velocities in Granite with Pressure and Temperature," *Geophysics*, Vol. 21, No. 2, 277-284, Menasha, April, 1956.
- 9482 IMBO, G., and CASERTANO, L., "Profondità ipocentrali e coefficienti di assorbimento per zone Etnee," *Geofisica Pura e Applicata*, Vol. 22, 42-52, 4 fig., bib., Milan, 1952.
- IWAI, Y., and WADATI, K., "The Minute Investigation of Seismicity in Japan." See No. 9614 of this list.
- JARANYI, J., and STEGENA, L., "Horizontal Torsion Seismometer." See No. 9589 of this list.
- JOHNSON, H. R., BUNCE, E. T., HERSEY, J. B., and EDWARDS, R. S., "Seismic Observations in Deep and Shallow Water Southeast of North Carolina and South Carolina," See No. 9472 of this list.

- JOHNSON, H. R., OFFICER, C. B., EWING, J., and EDWARDS, R. S., "Geophysical Investigations in the Eastern Caribbean, Venezuelan Basin, Aves Swell, Grenada Trough, Lesser Antilles, Puerto Rico, and Puerto Rico Trough." See No. 9533 of this list.
- 9483 JOHNSON, R. B., "Use of the Refraction Seismic Method for Differentiating Pleistocene Deposits in the Arcola and Tuscola Quadrangles, Illinois," *Illinois, Geol. Surv., Rep.*, Invest. No. 176, 59 pages, 1954.
Trans. A.G.U.
- 9484 JONES, A. E., "A Diagram to Aid Seismic Reporting," *Earthquake Notes*, Vol. 27, No. 1, page 2, 1 fig., Washington, March, 1956.
- 9485 JONES, C. W., "On the Propagation of Shock Waves in Regions of Non-uniform Density," *Proceedings of the Royal Society, Series A, Mathematical and Physical Sciences*, No. 1172, Vol. 228, 82-99, 2 tab., London, Feb., 15, 1955.
- 9486 JONES, W. M., and DENNISON, A. T., "A Low-frequency Refraction Geophone," *Geophysical Prospecting*, Vol. 3, No. 2, 168-176, 5 fig., bib., The Hague, June, 1955.
- 9487 KARNIK, Vit., "Zur graphischen Distanz-und Azimut-Bestimmung eines Epizentrums," *Geofysikalni Sbornik*, 1955, No. 22, 45-58, 6 fig., bib., Prague, 1955.
- 9488 KATZ, Samuel, and EWING, Maurice, "Seismic-refraction Measurements in the Atlantic Ocean. Part VII: Atlantic Ocean Basin, West of Bermuda," *Bulletin, Geological Society of America*, Vol. 67, No. 4, 475-510, 33 fig., 9 tab., bib., New York, April, 1956.
- 9489 KELLER, G. V., "Dispersion of Seismic Waves Near a Small Explosion," *Transactions, American Geophysical Union*, Vol. 36, No. 6, 1035-1043, 9 fig., bib., Washington, Dec., 1955.
- 9490 KLEYN, A. H., "Applications in the Betun Area, South Sumatra," *Geophysical Prospecting*, Vol. 4, No. 1, 56-69, 3 fig., bib., The Hague, March, 1956.
- 9491 KNOPOFF, L., "Small Three-dimensional Seismic Models," *Transactions, American Geophysical Union*, Vol. 36, No. 6, 1029-1034, 4 fig., bib., Washington, Dec., 1955.
- 9492 KNOPOFF, L., "Forbidden S-waves," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1586, New York, Dec., 1955.
- 9493 KNOPOFF, L., "The Attenuation of Compression Waves in Lossy Media," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 47-56, 7 fig., Berkeley, Jan., 1956.

- 9494 KOEFOED, O., "On the Effect of Poisson's Ratios of Rock Strata on the Reflection Coefficients of Plane Waves," *Geophysical Prospecting*, Vol. 3, No. 4, 381-387, 7 fig., bib., The Hague, Dec., 1955.
- 9495 KORSCHUNOV, A., "On Surface-waves in Loose Materials of the Soil," *Geophysical Prospecting*, Vol. 3, No. 4, 359-380, 7 fig., 1 tab., bib., The Hague, Dec., 1955.
- 9496 KORSCHUNOV, A., "On the Reliability of Harmonic Analysis of Seismograms," *Geophysical Prospecting*, Vol. 4, No. 3, 303-309, 2 fig., bib., The Hague, Sept., 1956.
- 9497 KREY, Th., and HELBIG, K., "A Theorem Concerning Anisotropy of Stratified Media and Its Significance for Reflection Seismics," *Geophysical Prospecting*, Vol. 4, No. 3, 294-302, 2 fig., bib., The Hague, Sept., 1956.
- 9498 KUNZ, B., "Strahlenkrümmung und Wellen-geschwindigkeit," *Geofisica Pura e Applicata*, Vol. 26, 10-15, 3 fig., bib., Milan, 1953.
- 9499 LANDISMAN, Mack, and EWING, Maurice, "T Phase at Papeete, Tahiti," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1344, New York, Dec., 1954.
- 9500 LAPWOOD, E. R., "Study of a Series of Japanese Earthquakes," *Monthly Notices, Royal Astronomical Society, Geophysical Supplement*, Vol. 7, No. 3, 135-145, 5 fig., bib., London, Dec., 1955.
- 9501 LAUBSCHER, Hans P., "Structural and Seismic Deformations Along Normal Faults in the Eastern Venezuelan Basin," *Geophysics*, Vol. 21, No. 2, 368-387, Menasha, April, 1956.
- LEE, C. C., and COLLINS, Francis, "Seismic Wave Attenuation Characteristics from Pulse Experiments." See No. 9423 of this list.
- 9502 LEVIN, F. K., and HIBBARD, H. C., "Three-dimensional Seismic Model Studies," *Geophysics*, Vol. 20, No. 1, 19-32, 13 fig., Menasha, Jan., 1955.
- 9503 LINSSER, H., "Possibilités d'utilisation d'ondes transversales dans la sismique appliquée," *C.-R. 19th Int. Geol. Cong. Algiers, 1952*, Vol. 9, 245-247, 1954.
Trans. A.G.U.
- 9504 LINSSER, H., "Verfahren zur Auswertung von Untertage-Seismogrammen," *Geofisica Pura e Applicata*, Vol. 30, 33-67, 38 fig., Milan, 1955.
- LOCK, C. M., and STARKEY, B. J., "Short Range Propagation of Mechanical Disturbances in the Ground." See No. 9587 of this list.
- 9505 LOMBARDI, L. V., "Notes on the Use of Multiple Geophones," *Geophysics*, Vol. 20, No. 2, 215-226, 7 fig., Menasha, April, 1955.

- 9506 LOPER, G. B., "Seismic Recorder for Monitoring Magnetic Tape," *Geophysics*, Vol. 20, No. 3, 585-592, 6 fig., Menasha, July, 1955.
- 9507 MACCARTHY, G. R., "The Southern Appalachian Earthquake of September 28, 1955," *Earthquake Notes*, Vol. 27, No. 1, 1-2, Washington, March, 1956.
- MAHONEY, W. F., and MEEK, J. H., "Proposed Canadian Program for International Geophysical Year as of May 1st, 1956." See No. 9511 of this list.
- MARCELLI, L., and CALOI, P., "Onde superficiali attraverso il bacino dell'Atlantico." See No. 9417 of this list.
- 9508 MASSÉ, Lucien, "Probability Distribution of Reflections on Seismic Records," *Geophysics*, Vol. 20, No. 2, 243-253, 4 fig., Menasha, April, 1955.
- 9509 MATSCHINSKI, M., "Prospection géophysique et certitude d'interprétation de ses données," *Geofisica Pura e Applicata*, Vol. 27, 35-84, 27 fig., Milan, 1954.
- MAURETTE, Christian, and HUGHES, D. S., "Variation of Elastic Wave Velocities in Granite with Pressure and Temperature." See No. 9481 of this list.
- MAYNE, W. H., and PARR, J. O., "A New Method of Pattern Shooting." See No. 9539 of this list.
- MCNEIL, Halcyon, and CLAY, C. S., "An Amplitude Study on a Seismic Model." See No. 9420 of this list.
- 9510 MEDVEDEV, S. V., "Recherches sur les pronostics des séismes," (in Russian) *Izvest. Akad. Nauk SSSR, Ser, geofiz.*, No. 1, 100-103, 1954 (abst. in *Bul. An. CNRS, 1st., pt.*, Vol. 16, No. 1, page 582, 1955).
Trans. A.G.U.
- 9511 MEEK, J. H., and MAHONEY, W. F., "Proposed Canadian Program for the International Geophysical Year as of May 1st, 1956," *Associate Committee on Geodesy and Geophysics, National Research Council*, Ottawa, 1956.
- 9512 MENZEL, N. J., "Über die seismische Bodenruhe in Norddeutschland," *Pontif. Acad. Sci. Scripta Varia*, Vol. 12, 223-238, 1952, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 16, No. 9, page 4839, 1955).
Trans. A.G.U.
- 9513 MERINO Y CORONADO, J., "Un Sismografo electronico de construccion senulla," *Anales del Instituto de Geofisica, Universidad Nacional Autonoma de Mexico*, Vol. 1, 63-77, 7 fig., Mexico, 1955.

- MERLINI, E., and SELEM, A. M., "Electrical Hazards in Seismic Prospecting." See No. 9576 of this list.
- 9514 MERRIAM, Daniel F., "History of Earthquakes in Kansas," *Bulletin, Seismological Society of America*, Vol. 46, No. 2, 87-96, 2 fig., Berkeley, April, 1956.
- 9515 MERRITT, R. G., and HOUSNER, G. W., "Effect of Foundation Compliance on Earthquake Stresses in Multistory Buildings," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1657, New York, Dec., 1955.
- 9516 MEYER, R. P., "Seismic Studies of Offshore Geologic Structure between Charleston, South Carolina and Cape Fear, North Carolina," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1597, New York, Dec., 1955.
- 9517 MILLER, A. L., "Engineering Aspects of Earthquake Motion," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1346, New York, Dec., 1954.
- 9518 MONTANDON, Frédéric, "Sur la fréquence des séismes destructeurs et sur leur prévision hypothétique," *Revue pour l'étude des Calamités*, No. 33, Vol. 15, 42-50, 1 tab., Geneva, 1955.
- F.M.
- 9519 MORAN, D. F., and STEINBRUGGE, K. V., "Effect of Local Geology and Soil Conditions on Intensity of Ground Motion in Southern California Earthquakes," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1288, New York, Dec., 1954.
- MORAN, D. F., and STEINBRUGGE, K. V., "Damage Caused by the Earthquakes of July 6 and August 23, 1954." See No. 9589 of this list.
- 9520 MORELLI, C., and MOSETTI, F., "Rilievo sismico a riflessione in mare nella zona de Punta Marina," *Rivoluzione Industriale*, No. 35, 6 pages, 7 fig., bib., Nov., 1955.
- MORELLI, C., and VERCELLI, F., "Onde microsismiche e loro cause." See No. 9612 of this list.
- MOSETTI, F., and MORELLI, C., "Rilievo sismico a riflessione in mare nella zona de Punta Marina." See No. 9520 of this list.
- 9521 MUIR, F., and HALES, F. W., "A Rational Approach to the Design of Electrical Filters and of Shot-hole and Geophone Pattern in Seismic Reflection Prospecting," *Geophysical Prospecting*, Vol. 3, No. 4, 350-358, 6 fig., bib., The Hague, Dec., 1955.

9522 MURPHY, L. M., *Earthquake Notes*, the organ of the Eastern Section of the Seismological Society of America is edited by L. M. Murphy of the U.S. Coast and Geodetic Survey, and is published in Washington, D.C. Since last reported in this list, it has continued to appear as follows: Vol. 27, No. 1, March, 1956; Vol. 27, No. 2, June, 1956.

The contents of the above issues are listed herein under their various authors.

9523 MURPHY, M. J., and BYCROFT, G. N., "The Response of a Nonlinear Oscillator to an Earthquake," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 57-66, 9 fig., Berkeley, Jan., 1956.

9524 MUSGRAVE, M. J. P., "On the Propagation of Elastic Waves in Aeolotropic Media. I. General Principles," *Proceedings of the Royal Society of London, Series A, Mathematical and Physical Sciences*, No. 1166, Vol. 226, 339-355, 6 fig., London, Nov. 23., 1954.

9525 MUSGRAVE, M. J. P., "On the Propagation of Elastic Waves in Aeolotropic Media. II. Media of Hexagonal Symmetry," *Proceedings of the Royal Society of London, Series A, Mathematical and Physical Sciences*, No. 1166, Vol. 226, 356-364, 6 fig., London, Nov. 23, 1954.

9526 NAGAMUNE, T., "On the Travel Time and the Dispersion of Surface Waves (II)," *The Geophysical Magazine*, Vol. 27, No. 1, 93-104, 10 fig., Tokyo, Jan., 1956.

9527 NATURE. The following article of interest to seismologists appeared in No. 4522, Vol. 177 of this periodical (London 1956):
"Improvements in Seismic Prospecting," 1209-1210, June 30.

9528 NEUMANN, Frank, "Earthquake Focal Depths in the Puget Sound Area, Washington," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1602, New York, Dec., 1955.

9529 NORDQUIST, J. M., "Response of a Critically Damped Mechanical Seismometer, to Wavelets," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1658, New York, Dec., 1955.

9530 O'BRIEN, P. N. S., "Model Seismology—the Critical Refraction of Elastic Waves," *Geophysics*, Vol. 20, No. 2, 227-242, 4 fig., Menasha, April, 1955.

9531 ODISHAW, Hugh, "International Geophysical Year Symbol," *Science*, No. 3200, Vol. 123, page 722, Washington, April 27, 1956.

9532 OFFICER, C. B., "A Deep-sea Seismic Reflection Profile," *Geophysics*, Vol. 20, No. 2, 270-282, 8 fig., Menasha, April, 1955.

- 9533 OFFICER, C. B., EWING, J., EDWARDS, R. S., and JOHNSON, H. R., "Geophysical Investigations in the Eastern Caribbean, Venezuelan Basin, Aves Swell, Grenada Trough, Lesser Antilles, Puerto Rico, and Puerto Rico Trough," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1603, New York, Dec., 1955.
- 9534 OLIVER, Jack, EWING, Maurice and PRESS, Frank, "Crustal Structure and Surface-wave Dispersion," *Bulletin, Geological Society of America*, Vol. 66, 913-946, 22 fig., New York, July, 1955.
- 9535 OLIVER, Jack, EWING, Maurice and PRESS, Frank, "Crustal Structure of the Arctic Regions from the L Phase," *Bulletin, Geological Society of America*, Vol. 66, 1063-1074, 1 fig., New York, Sept., 1955.
- 9536 OLIVER, Jack, EWING, Maurice, and PRESS, Frank, "Crustal Structure of the Indian Ocean Basin from Rayleigh-wave Dispersion," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1658, New York, Dec., 1955.
- OLIVER, Jack, EWING, Maurice, and PRESS, Frank, "Dispersion of Love Waves Crossing the United States." See No. 9444 of this list.
- OLIVER, Jack, PRESS, Frank and EWING, Maurice, "Dispersion of Rayleigh Waves Crossing Africa." See No. 9554 of this list.
- OLIVER, Jack, PRESS, Frank, and EWING, Maurice, "Crustal Structure and Surface-wave Dispersion in Africa." See No. 9555 of this list.
- OLIVER, Jack, SHURBET, D. H., DONN, W. L., EWING, Maurice and PRESS, Frank, "Short-period Surface Waves at Continental Margins." See No. 9445 of this list.
- 9537 OLSON, R. W., "High Resolution Reflection Seismograph," *Oil and Gas Journal*, Vol. 53, No. 36, 84-86, Jan., 1955.
- 9538 PAKISER, L. C., and WARRICK, R. E., "A Preliminary Evaluation of the Shallow Reflection Seismograph," *Geophysics*, Vol. 21, No. 2, 388-405, Menasha, April, 1956.
- 9539 PARR, J. O., and MAYNE, W. H., "A New Method of Pattern Shooting," *Geophysics*, Vol. 20, No. 3, 539-564, 11 fig., Menasha, July, 1955.
- 9540 PEKERIS, C. L., "The Seismic Surface Pulse," *Proceedings of the National Academy of Sciences, U.S.A.*, Vol. 41, No. 7, 469-480, 4 fig., bib., Washington, July 15, 1955.
- 9541 PEKERIS, C. L., "The Seismic Buried Pulse," *Proceedings of the National Academy of Sciences, U.S.A.*, Vol. 41, No. 9, 629-639, 2 fig., bib., Washington, Sept. 15, 1955.

- 9542 PEKERIS, C. L., "Research on the Oscillations of the Earth and Theoretical Seismology," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 405-408, 2 fig., Washington, June, 1956.
- 9543 PERRI, E., "Sopra un'onda lenta superficiale provocata da esplosione vicina," *Geofisica Pura e Applicata*, Vol. 27, 7-29, 12 fig., Milan, 1954.
- 9544 PERRI, E., "Sopra un'onda lenta superficiale provocata da esplosione vicina II," *Geofisica Pura e Applicata*, Vol. 29, 84-105, 6 fig., bib., Milan, 1954.
- 9545 PETERSON, R. A., FILLIPPONE, W. R., and COKER, F. B., "The Synthesis of Seismograms from Well Log Data," *Geophysics*, Vol. 20, No. 3, 516-538, 19 fig., Menasha, July, 1955.
- 9546 PHOTIADES, Alexandre, "La leçon des récents séismes de Grèce," *Revue pour l'étude des Calamités*, No. 33, Vol. 15, 3-7, Geneva, 1955.
- F.M.
- 9547 PICKETT, G. R., "Seismic Wave Propagation and Pressure Measurements near Explosions," *Q. Colorado School of Mines*, Vol. 50, No. 4, 1-77, Oct., 1955.
- PIEUCHOT, M., and RICHARD H., "Seismic Efficiency of Explosives." See No. 9560 of this list.
- 9548 POSGAY, K., "Mean Error of Seismic Reflection Measurements in Case of Intensely Jointed Fault-structures," (in Hungarian with English summary) *Geofiz. Közlem.*, Vol. 4, No. 1, 15-23, 1955.
- Trans. A.G.U.
- 9549 POSGAY, K., "Consideration of Explosion Conditions in Shallow Seismic Measurements," (in Hungarian with summary in English) *Geofiz. Közlem.*, Vol. 4, No. 1, 25-37, 1955.
- Trans. A.G.U.
- 9550 POSTMA, G. W., "Wave Propagation in a Stratified Medium," *Geophysics*, Vol. 20, No. 4, 780-806, 13 fig., Menasha, Oct. 1, 1955.
- 9551 PRESS, Frank, "Some New Trends in Seismology," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 377-378, Washington, June, 1956.
- 9552 PRESS, Frank and DOBRIN, Milton B., "Seismic Wave Studies Over a High-speed Surface Layer," *Geophysics*, Vol. 21, No. 2, 285-298, Menasha, April, 1956.
- PRESS, Frank, DONN, W. L., and EWING, Maurice, "Performance of Resonant Seismometers." See No. 9435 of this list.

- 9553 PRESS, Frank, and EWING, Maurice, "Waves with P_n and S_n Velocity at Great Distances," *Proceedings of the National Academy of Sciences, U.S.A.*, Vol. 41, No. 1, 24-26, 3 fig., Washington, Jan. 15, 1955.
- PRESS, Frank, and EWING, Maurice, "Propagation of Elastic Waves in the Ocean with Reference to Microseisms." See No. 9442 of this list.
- PRESS, Frank, and EWING, Maurice, "Rayleigh Wave Dispersion in the Period Range 10 to 500 Seconds." See No. 9443 of this list.
- 9554 PRESS, Frank, EWING, Maurice, and OLIVER, Jack, "Dispersion of Rayleigh Waves Crossing Africa," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1660, New York, Dec., 1955.
- 9555 PRESS, Frank, EWING, Maurice, and OLIVER, Jack, "Crustal Structure and Surface-wave Dispersion in Africa," *Bulletin, Seismological Society of America*, Vol. 46, No. 2, 97-104, 2 fig., 1 tab., Berkeley, April, 1956.
- PRESS, Frank, OLIVER, Jack, EWING, Maurice, "Crustal Structure and Surface-wave Dispersion." See No. 9534 of this list.
- PRESS, Frank, OLIVER, Jack, and EWING, Maurice, "Crustal Structure of the Arctic Regions From the L_s Phase." See No. 9535 of this list.
- PRESS, Frank, OLIVER, Jack, and EWING, Maurice, "Crustal Structure of the Indian Ocean Basin from Rayleigh-wave Dispersion." See No. 9536 of this list.
- PRESS, Frank, OLIVER, Jack, and EWING, Maurice, "Dispersion of Love Waves Crossing the United States." See No. 9444 of this list.
- PRESS, Frank, OLIVER, Jack, SHURBET, D. H., DONN, W. L., and EWING, Maurice, "Short-period Surface Waves at Continental Margins." See No. 9445 of this list.
- PRESS, F., RICHTER, C. F., BENIOFF, H., and GUTENBERG, B., "Progress Report, Seismological Laboratory, California Institute of Technology, 1955." See No. 9399 of this list.
- 9556 RAITT, R. W., "Some Results of Seismic Studies on Capricorn Expedition," (abstract) *Bulletin, Geological Society of America*, Vol. 65, page 1348, New York, Dec., 1954.
- REGAN, J. D., GADD, G. E., and HOLDER, D. W., "An Experimental Investigation of the Interaction between Shock Waves and Boundary Layers." See No. 9450 of this list.

- 9557 RENTSCH, W., "The Application of Modern Electronic Measuring Methods in Mining," *Nachrichtentechnik*, Vol. 3, 218-221, May, 1953.
- 9558 REPAL, S. N., and BOUCHON, M., "Étude tellurique dans le bassin du Hodna," *C.-R. 19th Int. Geol. Cong., Algiers, 1952*, Vol. 9, 231-242, 1954.
Trans. A.G.U.
- 9559 RICE, R. B., "Additional Notes on the Resolved-time Computing Method," *Geophysics*, Vol. 20, No. 1, 104-122, 12 fig., Menasha, Jan., 1955.
- 9560 RICHARD, H., and PIEUCHOT, M., "Seismic Efficiency of Explosives," *Geophysical Prospecting*, Vol. 4, No. 2, 167-184, 10 fig., 1 tab., The Hague, June, 1956.
- 9561 RICHARD, H., and RIMBAUT, M., "Mesure du bruit et sismos multiples," *Geophysical Prospecting*, Vol. 3, No. 2, 177-194, 11 fig., The Hague, June, 1955.
- 9562 RICHTER, C. F., "Earthquakes and Earthquake Damage in Southern California," *Contribution No. 656, Division of Geological Sciences, California Institute of Technology*, 12 pages, 8 fig., bib., Pasadena, 1953 (?).
- 9563 RICHTER, C. F., "Kern County Aftershocks; Second Report," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1349, New York, Dec., 1954.
- RICHTER, C. F., BENIOFF, H., GUTENBERG, B., and PRESS, F., "Progress Report, Seismological Laboratory, California Institute of Technology, 1955." See No. 9399 of this list.
- 9564 RICHTER, C. F., and GUTENBERG, B., "Seismicity of Southern California," *Contribution No. 627, Division of Geological Sciences, California Institute of Technology*, 10 pages, 4 fig., bib., Pasadena, 1952 (?).
- RICHTER, C. F., and GUTENBERG, Beno, "Magnitude and Energy: Progress Report." See No. 9461 of this list.
- RICHTER, C. F., and GUTENBERG, B., "Earthquake Magnitude, Intensity, Energy, and Acceleration (Second Paper)." See No. 9462 of this list.
- 9565 RIGGS, E. D., "Seismic Wave Types in a Borehole," *Geophysics*, Vol. 20, No. 1, 53-67, 11 fig., Menasha, Jan., 1955.
- RIMBAUT, M., and RICHARD, H., "Mesure du bruit et sismos multiples." See No. 9561 of this list.
- 9566 RIZNICHENKO, J. V., "Détermination des Champs d'i des ondes séismiques," (in Russian) *Izvest. Akad. Nauk SSSR, Ser. geofiz.*, No. 1, 11-25, 1954 (abst. in *Bul. An. CNRS, 1st., pt.*, Vol. 16, No. 1, page 582, 1955).
Trans. A.G.U.

- 9567 ROBIN, G. de Q., "Determination of the Thickness of Ice Shelves by Seismic Shooting Methods," *Nature*, No. 4508, Vol. 177, 1 tab., 1 fig., bib., London, March 24, 1956.
- 9568 ROESLER, E. C., "Glancing Angle Reflection of Elastic Waves from a Free Boundary" *Philosophical Magazine*, No. 376, Vol. 4, 517-526, May, 1955. A review by Milton B. Dobrin appears in *Geophysics*, Vol. 21, No. 1, page 206, Menasha, Jan., 1956.
- 9569 ROMNEY, Carl, "Tilt and Rotation of the Axes of Vibration During Rayleigh-wave Motion," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1661, New York, Dec., 1955.
- 9570 ROSENBLUETH, Emilio, "Teoria estadistica de las respuest as sismicas," *Anales del Instituto de Geofisica, Universidad Nacional Autonoma de Mexico*, Vol. 1, 125-133, bib., Mexico, 1955.
- ROSINI, E., and GIORGI, M., "Sur l'origine des microséismes intéressant la Méditerranée." See No. 9455 of this list.
- 9571 ROTHÉ, J. P., "Tableau de la séismicité du globe pendant les années 1953-1954. (Chronique séismologique)," *Revue pour l'étude des Calamités*, No. 33, Vol. 15, 8-41, Geneva, 1955.
- F.M.
- 9572 SARRAFIAN, G. P., "A Marine Seismic Model," *Geophysics*, Vol. 21, No. 2, 320-336, Menasha, April, 1956.
- 9573 SATO, R., "On Rayleigh Waves Generated at Rough Surfaces (I) (Two Dimensional Case)," (in Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 8, No. 3, 121-137, 12 fig., bib., Tokyo, March, 1956.
- 9574 SATO, Y., "On the Direction of Earthquake Sound," (in Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 8, No. 3, 149-154, 22 fig., bib., Tokyo, March, 1956.
- 9575 SCHEIDECKER, A. E., "Physics of Orogenesis in the Light of New Seismological Evidence," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1662, New York, Dec., 1955.
- 9576 SELEM, A. M., and MERLINI, E., "Electrical Hazards in Seismic Prospecting," *Geophysical Prospecting*, Vol. 3, No. 2, 163-167, 1 tab., The Hague, June, 1955.
- 9577 SHEA, G. J., "Modified Milne-Shaw Seismograph," *Earthquake Notes*, Vol. 27, No. 1, 3-8, 6 fig., Washington, March, 1956.

- SHEEHY, M. J., and DIETZ, R. S., "Transpacific Detection of Myojins Volcanic Explosions by Underwater Sound." See No. 9429 of this list.
- 9578 SHIMAZU, Y., "Equation of State of Materials Composing the Earth's Interior II," *J. Earth Sci., Nagoya Univ.*, Vol. 2, No. 2, 95-172, 1954.
Trans. A.G.U.
- 9579 SHUMWAY, George, "A Resonant Chamber Method for Sound Velocity and Attenuation Measurements in Sediments," *Geophysics*, Vol. 21, No. 2, 305-319, Menasha, April, 1956.
- SHURBET, D. H., DONN, W. L., EWING, Maurice, PRESS, Frank, and OLIVER, Jack, "Short-period Surface Waves at Continental Margins." See No. 9445 of this list.
- 9580 SIMPSON, S. M., Jr., "Similarity of Output Traces as a Seismic Operator Criterion," *Geophysics*, Vol. 20, No. 2, 254-269, 5 fig., Menasha, April, 1955.
- 9581 SLEMMONS, D. B., "Dixie Valley—Fairview Peak, Nevada, Earthquake of December 16, 1954," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1663, New York, December, 1955.
- 9582 SLEMMONS, D. B., "Geologic Settings for the Fallon-Stillwater Earthquakes of 1954," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 4-9, 2 fig., Berkeley, Jan., 1956.
- 9583 SLICHTER, L. B., "Theoretical Seismology," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 378-379, Washington, June, 1956.
- 9584 SMITH, Mark K., "Noise Analysis and Multiple Seismometer Theory," *Geophysics*, Vol. 21, No. 2, 337-360, Menasha, April, 1956.
- SNEDDON, I. N., EASON, G., and FULTON, J., "The Generation of Waves in an Infinite Elastic Solid by Variable Body Forces." See No. 9436 of this list.
- 9585 SPENCER, T. W., "Reflection of an Acoustical Pressure Pulse from a Liquidsolid Plane Boundary," *Geophysics*, Vol. 21, No. 1, 71-87, 8 fig., bib., Menasha, Jan., 1956.
- 9586 ST. AMAND, Pierre, "Two Proposed Measures of Seismicity," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 41-46, 1 fig., Berkeley, Jan., 1956.
- ST. AMAND, Pierre, and BUWALDA, J. P., "Altitude and Nature of Movement on White Wolf Fault During Arvin-Tehachapi Earthquake of July 21, 1952." See No. 9413 of this list.

- 9587 STARKEY, B. J., and LOCK, C. M., "Short Range Propagation of Mechanical Disturbances in the Ground," *J. Appl. Phys.*, Vol. 25, No. 6, 816-817, 1954 (abst. in Bul. An. CNRS, 1st. pt., Vol. 16, No. 1, page 584, 1955).

Trans. A.G.U.

- 9588 STEGENA, L., and JARANYI, J., "Horizontal Torsion Seismometer," (in Hungarian with English summary), *Geofiz. Közlem.*, Vol. 4, No. 1, 63-66, 1955.

Trans. A.G.U.

- 9589 STEINBRUGGE, K. V., and MORAN, D. F., "Damage Caused by the Earthquakes of July 6 and August 23, 1954," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 15-33, 29 fig., 3 tab., Berkeley, Jan., 1956.

- STEINBRUGGE, K. V., and MORAN, D. F., "Effect of Local Geology and Soil Conditions on Intensity of Ground Motion in Southern California Earthquakes." See No. 9519 of this list.

- 9590 STONE, Robert, "Method for Predicting Relative Seismic Intensity at Specific Sites," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1665, New York, Dec., 1955.

- 9591 STONELEY, R., "The Propagation of Surface Elastic Waves in a Cubic Crystal," *Proceedings of the Royal Society, A*, Vol. 232, 447-458, bib., London, 1955.

- 9592 STONELEY, R., "Surface Elastic Waves," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 408-409, Washington, June, 1956.

- 9593 SZENAS, Gy., and GEREBEN, L., "An Application of Seismic Refraction Method in Exploration for Bauxite," (in Hungarian with summary in English), *Geofiz. Közlem.*, Vol. 4, No. 1, 67-74, 1955.

Trans. A.G.U.

- 9594 TANDON, A. N., "Direction of Faulting in the Great Assam Earthquake of 15 August, 1950," *Indian Journal of Meteorology and Geophysics*, Vol. 6, No. 2, 61-64, 1 fig., 1 tab., bib., New Delhi, 1955.

- 9595 TA'RCZY-HORNOCH, A., "Zur Bestimmung der reflektierenden Ebene bei den seismischen Reflexionsmessungen," *Geofisica Pura e Applicata*, Vol. 27, 87-97, 3 fig., Milan, 1954.

- 9596 TARRANT, L. H., "European Association of Exploration Geophysicists: Meeting in London," *Nature*, No. 4499, Vol. 177, 120-121, London, Jan. 21, 1956.

- 9597 TARRANT, L. H., "A Rapid Method of Determining the Form of a Seismic Refractor from Line Profile Results," *Geophysical Prospecting*, Vol. 4, No. 2, 131-139, 6 fig., The Hague, June, 1956.

- 9598 TATEL, H. E., "Problems in Continental Structure," *Journal of Geophysical Research*, Vol. 61, No. 2, Part 2, 371-374, Washington, June, 1956.
- 9599 TAZIME, K., "Some Notices on the Design of the Electromagnetic Recorder Having No Amplifier," (in Japanese with summary in English), *Zisin, Journal of the Seismological Society of Japan, Second Series*, Vol. 8, No. 3, 138-148, 4 fig., bib., Tokyo, March, 1956.
- 9600 TILLOTSON, E., "Dr. Ernst Wanner," (obituary), *Nature*, No. 4508, Vol. 177, page 558, London, March 24, 1956.
- 9601 TILLOTSON, E., "European Seismological Commission: meetings in Vienna," *Nature*, No. 4518, Vol. 177, 1021-1022, London, June 2, 1956.
- 9602 TOCHER, Don, "Fallon, Nevada, Earthquakes of July, and August 1954," (abstract), *Bulletin, Seismological Society of America*, Vol. 66, page 1666, New York, Dec., 1955.
- 9603 TOCHER, Don, "Earthquakes Off the North Pacific Coast of the United States," (abstract), *Bulletin, Geological Society of America*, Vol. 66, page 1666, New York, Dec., 1955.
- 9604 TOCHER, Don, "Movement on the Rainbow Mountain Fault," *Bulletin, Seismological Society of America*, Vol. 46, No. 1, 10-14, 3 fig., Berkeley, Jan., 1956.
- 9605 TOMASCHEK, R., "Non-elastic Tilt of the Earth's Crust Due to Meteorological Pressure Distributions," *Geofisica Pura e Applicata*, Vol. 25, 17-25, 6 fig., 2 tab., bib., Milan, 1953.
- 9606 TOULIS, W. J., "Theory of a Resonance Method to Measure the Acoustic Properties of Sediments," *Geophysics*, Vol. 21, No. 2, 299-304, Menasha, April, 1956.
- 9607 TRAPP, E., "Ableitung der Magnitudengleichung für die Erdbebenstationen Wien und Graz und allgemeine Bemerkungen zur Magnitudenberechnung," *Arch. Met. Geophys., Bioklim. Ser A*, Vol. 6, No. 3-4, 440-450, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 15, No. 11-12, page 5688, 1954).
- Trans. A.G.U.
- 9608 TULLER, B. A., "Total Reflection of Transverse Plane Waves," (abstract), *Bulletin, Geological Society of America*, Vol. 65, page 1352, New York, Dec., 1954.
- TULLER, Burl, and BYERLY, Perry, "TP Wave." See No. 9416 of this list.
- 9609 UHRIG, L. F., and VAN MELLE, F. A., "Velocity Anisotropy in Stratified Media," *Geophysics*, Vol. 20, No. 4, 774-779, 2 fig., Menasha, Oct., 1955.

9610 USAMI, T., "The Reflection and Refraction of Elastic Waves at Sea Bottom," *The Geophysical Magazine*, Vol. 27, No. 1, 77-92, 5 fig., 2 tab., bib., Tokyo, Jan., 1956.

9611 VANEK, J., "Les études séismologiques en Tchécoslovaquie de 1951 à 1953," *Czech. J. Phys.*, Vol. 5, No. 2, 281-282, 1955 (abst. in *Bul. An. CNRS. 1st. pt.*, Vol. 16, No. 10, page 5281, 1955).

Trans. A.G.U.

— VAN MELLE, F. A., and UHRIG, L. F., "Velocity Anisotropy in Stratified Media." See No. 9609 of this list.

— VAN NOSTRAND, R. Y., and DOBRIN, M. B., "Review of Current Developments in Exploration Geophysics." See No. 9433 of this list.

9612 VERCELLI, F., and MORELLI, C., "Onde microsismiche e loro cause," *Pontif. Acad. Sci., Scripta Varia*, Vol. 12, 345-350, 1952, 1954 (abst. in *Bul. An. CNRS, 1st. pt.*, Vol. 16, No. 9, page 4840, 1955).

Trans. A.G.U.

9613 WADATI, K., and HIRONO, T., "Magnitude of Earthquakes—Especially of Near, Deep-focus Earthquakes," *The Geophysical Magazine*, Vol. 27, No. 1, 1-10, 9 fig., bib., Tokyo, Jan., 1956.

9614 WADATI, K., and IWAI, Y., "The Minute Investigation of Seismicity in Japan," *The Geophysical Magazine*, Vol. 27, No. 1, 11-16, 3 fig., bib., Tokyo, Jan., 1956.

9615 WALTER, E. J., "Reverend James B. Macelwane, S.J.," *Earthquake Notes*, Vol. 27, No. 2, 15-16, Washington, June, 1956. (This issue of *Earthquake Notes*, is entirely devoted to the life and works of the late Rev. James Bernard Macelwane, S.J.).

— WARRICK, R. E., and PAKISER, L. C., "A Preliminary Evaluation of the Shallow Reflection Seismograph." See No. 9538 of this list.

9616 WATANABE, H., "Studies on the Tsunamis on the Pacific Coast of Northern Japan," *The Geophysical Magazine*, Vol. 27, No. 1, 61-75, 15 fig., 2 tab., bib., Tokyo, Jan., 1956.

9617 WEAVER, Paul, "Gulf of Mexico," *Geological Society of America, Special Paper 62*, 269-278, 8 fig., 2 pl., New York, July, 1955.

9618 WEBER, M., "Die Bestimmung der Frontgeschwindigkeit in einem einachsig inhomogenen Körper aus seismischen Reflexionsmessungen," *Geofisica Pura e Applicata*, Vol. 29, 11-21, Milan, 1954.

- 9619 WEBER, M., "Zur Interpretation von seismischen Refraktionsmessungen," *Geofisica Pura e Applicata*, Vol. 30, No. 1, 27-32, bib., Milan, 1955.
- 9620 WEBER, M., "Die Laufzeitfläche einer mehrfach reflektierten Wellenfront in einem inhomogenen Körper mit beliebig gekrümmter Oberfläche," *Geofisica Pura e Applicata*, Vol. 32, No. 3, 12-18, bib., Milan, Sept.-Dec., 1955.
- 9621 WEBER, M., "Die Bestimmung einer beliebig gekrümmten Schichtgrenze aus seismischen Reflexionsmessungen," *Geofisica Pura e Applicata*, Vol. 32, No. 3, 7-11, bib., Milan, Sept.-Dec., 1955.
- 9622 WILLMORE, P. L. and HODGSON, J. H., "Charts for Measuring Azimuth and Distance and for Tracing Seismic Rays through the Earth," *Publications of the Dominion Observatory*, Vol. 16, No. 14, 405-414, 2 fig., 3 tab., Ottawa, 1955.
- 9623 WILSON, James T., "'Applied Geophysics in the Search for Minerals, 4th ed.' by A. S. Eve, and D. A. Keys," (a review of the book reported as item 8988 of this list), *American Journal of Science*, Vol. 254, No. 3, page 197, New Haven, March, 1956.
- 9624 WOODS, J. P., "The Composition of Reflections," *Geophysics*, Vol. 21, No. 2, 261-276, Menasha, April, 1956.
- 9625 WORDIE, J. M., "The International Geophysical Year: Geophysical Station at Coats Land, Antarctica," *Nature*, No. 4509, Vol. 177, 598-600, 1 map, London, March 31, 1956.
- WORZEL, J. L., and BENTLEY, C. R., "Geophysical Investigations in the Emerged and Submerged Atlantic Coastal Plain. Part X: Continental Slope and Continental Rise South of the Grand Banks." See No. 9400 of this list.
- WORZEL, J. L., ERICSON, D. B., HEEZEN, B. C., and EWING, Maurice, "Geophysical and Geological Investigations in the Gulf of Mexico, Part I." See No. 9446 of this list.
- 9626 WYLLIE, M. R. J., GREGORY, A. R., and GARDNER, L. W., "Elastic Wave Velocities in Heterogeneous and Porous Media," *Geophysics*, Vol. 21, No. 1, 41-70, 19 fig., bib., Menasha, Jan., 1956.
- 9627 WYROBEK, S. M., "Application of Delay and Intercept Times in the Interpretation of Multilayer Refraction Time Distance Curves," *Geophysical Prospecting*, Vol. 4, No. 2, 112-130, 9 fig., bib., The Hague, June, 1956.

LIST OF COLLABORATORS

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

MONTANDON, Frederic, c/o Union Internationale de Secours, 7 Avenue de la Paix, Geneva,
Switzerland. F.M.

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