

REFERENCES

- ANDERSON, A. L., and WAGNER, W. R., 1952, Reconnaissance geology and ore deposits of the Mineral district, Washington County, Idaho: Idaho Bur. Mines Geol., Pamphlet 95.
- BAILEY, T. L., and JAHNS, R. H., 1954, Geology of the Transverse Range province, southern California: in: Calif. Div. Mines Bull. 170, pp. 83-106.
- BISSELL, H. J., 1955, Paleotectonics of the Upper Ordovician, Silurian, Devonian, and Lower Mississippian rocks of part of the Great Basin (abs.): Geol. Soc. America Bull., v. 66, pp. 1643-1644.
- , 1956, Pennsylvanian and Permian correlations in the Cordilleran area (abs.): Geol. Soc. America Bull., v. 67, pp. 1789-1790.
- BISSELL, H. J., and RIGBY, J. K., 1955, Stratigraphic terminology of the Paleozoic rocks in the southern Great Salt Lake Basin (abs.): Geol. Soc. America Bull., v. 66, p. 1531.
- BRAMLETTE, M. N., 1946, The Monterey formation of California and the origin of its siliceous rocks: U.S. Geol. Survey Prof. Paper 212.
- BROWN, A. SUNDERLAND, 1957, Geology of the Antler Creek area, Caribou district, British Columbia: British Columbia Dept. Min. Bull. No. 38, 113 pp.
- BRUEVICH, S. W., 1953, Geochemistry of silica in sea: Akad. Nauk SSSR Izv., Ser. Geol., no. 4, pp. 67-79.
- CHILINGAR, G. V., 1956, Distribution and abundance of chert and flint as related to the Ca/Mg ratio of limestones: Geol. Soc. America Bull., v. 67, pp. 1559-1561.
- , 1958, Lower Permian lithologic formations of the World (after Ronov and Khaim—1956): The Compass of Sigma Gamma Epsilon, v. 35, pp. 213-214.
- , 1958, Sponge spicule deposits as indicators of physical-chemical environment of deposition: *ibid.*, v. 35, pp. 215-219.
- CHILINGAR, G. V., and BISSELL, H. J., 1957, Mississippian Joana limestone of Cordilleran miogeosyncline and use of Ca/Mg ratio in correlation: Am. Assoc. Petroleum Geologists Bull., v. 41, pp. 2257-2274.
- CLARK, DAVID L., 1957, Marine Triassic stratigraphy in eastern Great Basin: *ibid.*, v. 41, pp. 2192-2222.
- COOGAN, ALAN H., 1957, Stratigraphy and Correlation of the Permian Nosoni and Dekkas formations, Shasta County, California (abs.): Geol. Soc. America Bull., v. 68, p. 1821.
- COOK, EARL F., 1954, Mining geology of the Seven Devils region: Idaho Bur. Mines and Geol. Pamphlet No. 97.
- CROWELL, JOHN C., 1952, Geology of the Lebec Quadrangle: California: Calif. Div. Mines Spec. Rept. 24, 24 pp.
- DANNER, W. R., 1957, A stratigraphic reconnaissance in the northwestern Cascade Mountains and San Juan Islands of Washington State: *ms.*, unpublished Ph. D. Thesis, University of Washington, 561 pp.
- DILLER, J. S., 1906, Description of the Redding Quadrangle: U.S. Geol. Survey Folio No. 138.
- , 1908, Geology of the Taylorsville region, California: U.S. Geol. Survey Bull. 353, 128 pp.
- DOTT, R. H., JR., 1955, Pennsylvanian stratigraphy of Elko and northern Diamond Ranges, northeastern Nevada: Am. Assoc., Petrol. Geol. Bull., v. 39, pp. 2211-2305.
- , 1958, Cyclic patterns in mechanically deposited Pennsylvanian limestones of northeastern Nevada: Jour. Sed. Petrology, v. 28, pp. 3-14.
- EARDLEY, A. J., 1947, Paleozoic Cordilleran geosyncline and related orogeny: Jour. Geology, v. 55, pp. 309-342.
- , 1951, Structural Geology of North America: Harper and Brothers, New York, 624 pp.
- ENBYSK, BETTY JOYCE, 1956, Addition to the Devonian and Carboniferous faunas of northeastern Washington (abs.): Geol. Soc. America Bull., v. 67, p. 1766.
- FERGUSON, H. G., and MULLER, S. W., 1949, Structural geology of the Hawthorne and Tonopah quadrangles, Nevada: U.S. Geol. Survey Prof. Paper 216, 55 pp.
- FERGUSON, H. G., ROBERTS, R. J., and MULLER, S. W., 1952, Geologic map of the Golconda quadrangle, Nevada: U.S. Geol. Survey Quad. Map.
- FERGUSON, H. G., MULLER, S. W., and CATHCART, S. H., 1953, Geologic map of the Coaldale quadrangle, Nevada: U.S. Geol. Survey Quad. Map.
- FERGUSON, H. G., and CATHCART, S. H., 1954, Geologic map of the Round Mountain quadrangle, Nevada: U.S. Geol. Survey GQ Map 40.
- GILLULY, JAMES, 1937, Geology and mineral resources of the Baker quadrangle: U.S. Geol. Survey Bull. 879.

- HAZZARD, J. C., 1937, Paleozoic section in the Nopah and Resting Springs Mountains, Inyo County, California: *Calif. Jour. Mines and Geol.*, v. 33, pp. 273-339.
- HEWETT, D. F., 1956, Geology and mineral resources of the Ivanpah quadrangle, California and Nevada: U.S. Geol. Survey Prof. Paper 275, 172 pp.
- HINDS, N. E. A., 1932, Paleozoic eruptive rocks of the southern Klamath Mountains, California: *Univ. Calif. Publ. Bull. Geol. Series*, v. 20, pp. 375-410.
- , 1933, Geologic formations of the Redding-Weaverville districts, northern California: *Calif. Div. Mines Rept. State Mineralogist* 29, pp. 76-122.
- HONKALA, F. S., *et al.*, 1956, Upper Paleozoic, Mesozoic, and Paleocene stratigraphy of western Montana (abs.): *Geol. Soc. America Bull.*, v. 67, pp. 1706-1707.
- HULIN, C. D., 1925, Geology and ore deposits of the Randesburg quadrangle, California: *Calif. Min. Bur. Bull.* 95, 148 pp.
- JAHNS, R. H., 1954, Geology of the Peninsular Range province, southern California: *in*: Chapter 2, *Calif. Div. Mines Bull.* 170, pp. 29-52.
- KAZAKOV, A. V., 1937, The phosphorite facies and the genesis of phosphorites: *in*: *Geological Investigations of Agricultural Ores: Trans. Sci. Inst. Fertilizers and Insecto-Fungicides*, No. 142 (published for the 17th. Session Internat. Geol. Congress), Leningrad, pp. 95-113.
- KRUMBEIN, W. C., and GARRELS, R. M., 1952, Origin and classification of chemical sediments in terms of pH and oxidation-reduction potentials: *Jour. Geology*, v. 60, pp. 1-33.
- LARSEN, E. RICHARD, 1954, Nevada—Its structure and stratigraphy: *The Petroleum Engineer*, August, p. 111.
- LONGWELL, CHESTER R., 1949, Structure of the northern Muddy Mountains area, Nevada: *Bull. Geol. Soc. Amer.*, v. 60, pp. 923-968.
- MATHEWS, W. H., and McCAMMON, J. W., 1957, Calcareous deposits of southwestern British Columbia Dep. Mines Bull. No. 40, 105 pp.
- McALLISTER, J. F., 1955, Geology and mineral deposits in the Ubehebe Peak quadrangle, Inyo County, California: *Calif. Div. Mines Spec. Rept.* 42, 63 pp.
- McKELVEY, V. E., SWANSON, R. W., and SHELTON, R. P., 1953, The Permian Phosphate deposits of western United States: *Comptes Rendus 19th. Internat. Geol. Congress*, Sec. XI, pp. 45-64.
- McKELVEY, V. E., *et al.*, 1956, Summary description of Phosphoria, Park City, and Shedhorn formations in western Phosphate field: *Am. Assoc. Petroleum Geol. Bull.*, v. 40, pp. 2826-2863.
- McMANNIS, WM. J., 1956, Geology of the Bridger Range, Montana: *Bull. Geol. Soc. America*, v. 66, pp. 1385-1430.
- McNAIR, ANDREW H., 1951, Paleozoic stratigraphy of part of northwestern Arizona: *Am. Assoc. Petroleum Geol. Bull.*, v. 35, pp. 503-541.
- MERRIAM, CHARLES W., 1954, Rocks of Paleozoic age in southern California: *in*: Chapter III, *Calif. Div. Mines Bull.* 170, pp. 9-14.
- MERRIAM, CHARLES W., and BERTHIAUME, S. A., 1934, Late Paleozoic of central Oregon: *Geol. Soc. America Bull.*, v. 54, pp. 145-172.
- MERRIAM, CHARLES W., and HALL, WAYNE E., 1957, Pennsylvanian and Permian rocks of the southern Inyo Mountains, California: *U.S. Geol. Survey Bull.* 1061-A, pp. 1-15.
- MILLER, A. K., FURNISH, W. M., and CLARK, DAVID L., 1957, Permian Ammonoids from western United States: *Jour. Paleontology*, v. 31, p. 1057-1068.
- NEWELL, N. D., *et al.*, 1953, The Permian Reef complex of the Guadalupe Mountains region, Texas and New Mexico: *W. H. Freeman and Company*, San Francisco, 288 p.
- NOLAN, T. B., 1935, The Gold Hill mining district, Utah: *U.S. Geol. Survey Prof. Paper* 177.
- , 1943, The basin and range province in Utah, Nevada, and California: *U.S. Geol. Survey Prof. Paper* 197-D, pp. 141-196.
- PARDEE, J. T., 1941, Preliminary geologic map of the Sumpter quadrangle, Oregon: *Oregon Dept. Geol. and Mineral. Indust. Map.*
- PROCTOR, P. D., and CLARK, DAVID L., 1956, The Curley limestone—an unusual biostrome in central Utah: *Jour. Sedimentary Petrology*, v. 26, pp. 313-321.
- ROBERTS, R. J., 1951, Geologic map of the Antler Peak quadrangle, Nevada: *U.S. Geol. Survey Geol. Quad. map.*
- ROSS, C. P., 1934, Correlation and interpretation of Paleozoic stratigraphy in south-central Idaho: *Geol. Soc. American Bull.*, v. 45, pp. 937-1000.
- , 1935, Geology and ore deposits of the Casto quadrangle, Idaho: *U.S. Geol. Survey Bull.* 854.

- , 1938, The geology of part of the Wallowa Mountains: Oregon Dept. Geol. and Mineral Industries Bull. No. 3, 74 pp.
- RUBEY, W. W., 1929, Origin of the siliceous Mowry shale of the Black Hills region: U.S. Geol. Survey Prof. Paper 154-D, pp. 153-170.
- RUSSELL, RICHARD J., *et al.*, 1936, Lower Mississippi River delta: Louisiana Geol. Surv. Bull. 8, 454 p.
- SCHOLTEN, ROBERT, 1957, Paleozoic evolution of the geosynclinal margin north of the Snake River plain, Idaho-Montana: Geol. Soc. America Bull., v. 68, pp. 151-170.
- , KEENMON, K. A., and Kupsch, W. O., 1955, Geology of the Lima region, southwestern Montana and adjacent Idaho: Geol. Soc. America Bull., v. 66, pp. 345-404.
- SCHUCHERT, CHARLES, 1923, Sites and nature of North American geosynclines: Geol. Soc. America Bull., v. 34, pp. 151-230.
- , 1924, Historical Geology: John Wiley and Sons, Inc., New York, 724 pp.
- SERAPHIM, R. H., 1956, Geology and copper deposits of the Boundary district, British Columbia: The Canadian Min. and Metallurgical Bull., v. LIX, pp. 384-394.
- SLOSS, L. L., and MORITZ, C. A., 1951, Paleozoic stratigraphy of southwestern Montana: Am. Assoc. Petroleum Geol. Bull., v. 35, pp. 2135-2169.
- SMITH, W. D. and ALLEN, J. E., 1941, Geology and physiography of the northern Wallowa Mountains, Oregon: Oreg. Dep. Geol. and Min. Indust. Bull. 12, 63 pp.
- TALIAFERRO, N. L., 1933, The relation of volcanism to diatomaceous and associated siliceous sediments: Univ. Calif. Publ. Bull. Dept. Geol. Sci., v. 23, 55 pp.
- THOMAS, H. D., 1949, The geologic history and geologic structure of Wyoming: Geol. Survey Wyoming Bull. 42.
- THOMPSON, M. L. and WHEELER, HARRY E., 1942, Permian fusulinids from British Columbia, Washington, and Oregon: Jour. Paleontology, v. 16, pp. 700-711.
- THOMPSON, M. L., WHEELER, HARRY E., and DANNER, W. R., 1950, Middle and Upper Permian fusulinids of Washington and British Columbia: Contrib. Cushman Found. For. Res., v. 1, pp. 46-63.
- THOMPSON, M. L., WHEELER, HARRY E., and HAZZARD, JOHN C., 1946, Permian fusulinids of California: Geol. Soc. America Memoir 17, 77 pp.
- WALCOTT, C. D., 1893, Geologic time: as indicated by the sedimentary rocks of North America: The American Geologist, v. 12, pp. 343-368.
- WALKER, T. R., 1956, Carbonate replacement of quartz and feldspar as a source of silica in silicified sediments (abs.): Geol. Soc. America Bull., v. 67, p. 1828.
- WEAVER, CHARLES E., 1945, Geology of Oregon and Washington and its relation to occurrence of oil and gas: Am. Assoc. Petroleum Geol. Bull., v. 29, pp. 1377-1415.
- WHEELER, HARRY E., 1939, *Helicoprion* in the Anthracolithic of Nevada and California, and its stratigraphic significance: Jour. Paleontology, v. 13, pp. 103-112.
- , 1939b, Permian volcanism in western North America: Proceedings of the Sixth Pacific Science Congress, pp. 369-376.
- , 1952, Permo (?) -Triassic geosynclinal facies in northeastern Nevada and northwestern Utah (abs.): Geol. Soc. America Bull., v. 63, pp. 1311-1312.
- , 1955, Late Paleozoic episodes in Cordilleran geosynclinal history (abs.): *ibid.* v. 66, pp. 1633-1634.
- WILLIS, BAILEY, 1909, Paleogeographic maps of North America: Jour. Geology, v. 17, pp. 203-208.

RECORD OF PANEL DISCUSSION

P. D. Krynine: "Your illustrations depict thick orthoquartzite sections; what percentage of the introduced silica cement do you consider syngenetic?"

Answer: "Estimates based upon field investigations and examination of hundreds of thin-sections suggest at least 95 percent of the silica cement is syngenetic."

P. D. Krynine: "Excellent! That is precisely the figure I have arrived at from my studies of orthoquartzites within the Appalachian region."

Raymond C. Moore: "It seems to me that

your illustrations depict over-thickened sections of miogeosynclinal sediments. Isn't this a spurious use of geosynclinal nomenclature?"

Answer: "The Oquirrh Basin orthoquartzites and associated sediments of the miogeosyncline are very thick it is true; however, relegation of these sediments to another type repository just to preserve the association of thick sections with the eugeosyncline would be a travesty against prevailing nomenclature."

PUBLICATIONS OF
THE SOCIETY OF ECONOMIC PALEONTOLOGISTS
AND MINERALOGISTS

A Division of
The American Association of Petroleum Geologists

Business Office: Box 979, Tulsa 1, Oklahoma, U.S.A.

JOURNAL OF PALEONTOLOGY (published jointly with the Paleontological Society)
Price list of available issues on request.

JOURNAL OF SEDIMENTARY PETROLOGY
Price list of available issues on request.

SPECIAL PUBLICATION NO. 1: *Bibliography of Otoliths*. (out of print)

SPECIAL PUBLICATION NO. 2: *Turbidity Currents and the Transportation of Coarse Sediments to Deep Water*. (out of print)

SPECIAL PUBLICATION NO. 3: *Finding Ancient Shorelines*. (out of print)

SPECIAL PUBLICATION NO. 4: *Recent Marine Sediments*.

A reprint with additions. September, 1955. Pp. i-lvi and 1-736; figs. 139. Index.
Price, \$5.00 (\$4.00 to members of S.E.P.M. and A.A.P.G.).

SPECIAL PUBLICATION NO. 5: *Regional Aspects of Carbonate Deposition*.

A symposium with discussions. February, 1957. Pp. iv-188; figs. 66; 22 full tone plates. Price, \$4.50 (\$3.50 to members of S.E.P.M. and A.A.P.G.).

SPECIAL PUBLICATION NO. 6: *Index to the Journal of Sedimentary Petrology*, Volumes 1-26 (1931-1956).

August, 1958. Pp. 55. Price, \$1.50 (\$1.25 to members of S.E.P.M.).

SPECIAL PUBLICATION NO. 7: *Silica in Sediments*.

A symposium with discussions. 1959. Pp. 185; figs. 74, plates 25. Price, \$5.00 (\$4.00 to members of S.E.P.M. and A.A.P.G.).

Please send orders to:

S.E.P.M., Box 979, Tulsa 1, Oklahoma