

Memorial of Ian Campbell¹ October 17, 1899–February 11, 1978

CHARLES W. CHESTERMAN

*California Division of Mines and Geology
San Francisco, California*

The death of Ian Campbell in San Francisco, California, on February 11, 1978, brought to a close the varied, long and colorful career of a most remarkable man.

Born in Bismarck, North Dakota, young Ian and family moved to Oregon, where he had much of his early schooling and graduated from the University of Oregon with an A.B. degree in 1922. During the next decade, he had a teaching fellowship for one year at Northwestern University, spent a season with the Wisconsin State Geological Survey, worked for Vacuum (now Mobil) Oil Company, completed his graduate program with a Ph.D. from Harvard University in 1931, and taught at Louisiana State University.

Ian was on the faculty of the Division of Geological Sciences at the California Institute of Technology from 1931 to 1959, and during this period he held appointments with the U. S. Geological Survey, the Carnegie Institution of Washington, and during World War II with the University of California Division of War Research at the Navy Radio and Sound Laboratory at San Diego.

In 1959 Ian was appointed to the position of Chief of the California Division of Mines and Geology and State Geologist, and during the following 10 years he initiated the Division's geophysical and geochemical programs and established a geological hazards program.

Ian was a respected scientist, and a warm and devoted leader. His work on nonmetallic minerals made him one of the country's foremost authorities in the field of these interesting and useful materials. He maintained an intense and active interest in minerals throughout his professional career, and, shortly



following his retirement from state service in 1969, co-authored an outstanding book titled *Minerals—Nature's fabulous jewels*.

He served in many capacities. From 1967 to 1969, he was Secretary of the State's Geothermal Resources Board. He chaired the State's Advisory Committee on Geographic Names, was a member and chairman of the committee on Geological Sciences of the National Academy of Sciences–National Research Council, member of the federal Committee on Surface Mining, and served for four years on the U. S. Committee of the International Union of Geological Sciences. Ian was a charter member of the California State Board of Registration for Geologists and Geophysicists, of which he was President from 1972 to 1974.

Ian also served his country and state. He volunteered for duty in World War I and was sent to

¹ To obtain a copy of a selected bibliography of 37 items, order Document AM-79-102 from the Business Office, Mineralogical Society of America, 2000 Florida Ave., NW, Washington, DC 20009. Please remit \$1.00 in advance for the microfiche.

France and Belgium as a member of an ambulance corps. During World War II he served as member of Selective Service Board 190 from 1940-1946, and was chairman of Board 92 from 1948-1959.

Ian's professional associations were many. He held many offices and was past national president of the American Geological Institute, the Geological Society of America, the Mineralogical Society of America, and the Association of American State Geologists. He was past president of the Branner Geological Society; the California Academy of Sciences; the Cal-Tech Chapter of the American Association of University Professors; Pacific Division, American Association for the Advancement of Science; and the LeConte Geological Society. Ian was very active in the American Institute of Mining, Metallurgical and Petroleum Engineers; the American Commission of Stratigraphic Nomenclature; University of California Institute of Marine Resources, Advisory Council; and the American Association of Petroleum Geologists. He was a member of Sigma Xi and the American Geophysical Union.

Honors were his, also. He received the Hardinge award from the American Institute of Mining, Metallurgical and Petroleum Engineers in 1962; the Ben H.

Parker award from the American Institute of Professional Geologists in 1970, and in 1973 the American Association of Petroleum Geologists presented him with the Public Service Award. He was an honorary life member of the Pacific Mineral Society, and honorary life member of the American Association of Petroleum Geologists, a distinguished member of the Society of Mining Engineers, and a member of Phi Beta Kappa.

And, on a non-professional level, he was a member of the Athenaeum Club of California Institute of Technology, the Commonwealth Club and the Engineer's Club of San Francisco, and the Masonic Order. He was a Unitarian, and a member of the Layman's League.

Ian Campbell leaves his wife Catherine, of San Francisco; his son Dugald Campbell, of Whittier; sister, Mrs. Flora Houck, of Palo Alto; and two grandchildren, Michael Ian and Denise.

There was a job to do, and "it really doesn't matter who does it or who gets the credit, just so long as the job is done properly and on time." Ian Campbell, the scientist, teacher, colleague, administrator and humanitarian, loved his fellow beings, and in turn he was deeply respected and beloved by them.

The following material did not appear in the original publication.

SELECTED BIBLIOGRAPHY OF IAN CAMPBELL

- (1927) Alpine mineral deposits. *American Mineralogist* 12, 157-167.
- (1928) (With A. D. Miller) Nepheline basalt in Richland Parish gas field, Louisiana. *Bulletin of the American Petroleum Geologists* 12, 985-993.
- (1933) Inter-relations between phases of alteration and types of rocks in Tonopah Mining District, Nevada (abstract). *Geological Society of America Bulletin* 44, 164.
- (1933) (With John H. Maxson) Field studies of the Archean in the Grand Canyon. *Grand Canyon Nature Notes* 8, 141-151 (Special geological issue).
- (1934) Review of Metamorphism: A Study of the Transformation of Rock Masses by Alfred Harker. *Economic Geology* 43, 781-783.
- (1936) On the occurrence of sillimanite and staurolite in the Grand Canyon. *Grand Canyon Natural History Association Bulletin* 5, 17-22.
- (1937) Types of pegmatites in the Archean at Grand Canyon, Arizona. *The American Mineralogist* 22, 436-445.
- (1938) (With Russell Gibson and W. F. Jenks) Quartz monzonite and related rocks of the Libby Quadrangle, Montana, and the effects on them of deuteritic processes. *American Journal of Science* 35, 345-369.
- (1939) (With John Haviland Maxson) Geology of the Archean of Southwestern United States: *Geologiya Arkheya Yugo-Zapada, U.S.A., 17th International Geological Congress Report* 2, 275.
- (1940) (With G. Austin Schroter) Geological features of some deposits of bleaching clay. *A.I.M.E. Technical Publication* 1139, *Mining Technology*, 4, No. 1, 1-31; *A.I.M.E. Trans.* 178-208 (1942).
- (1941) (With Russell Gibson and W. F. Jenks) Stratigraphy of the Belt series in Libby and Trout Creek Quadrangles, northwestern Montana and northern Idaho. *Geological Society of America Bulletin* 52, 363-379.
- (1942) Orbicular gabbro from Black Butte, Los Angeles County, California (abstract). *American Mineralogist* 27, 218-219.
- (1944) The word "microfacies". *Economic Geology* 39, 70-71.

- (1948) Magnesium metasomatism in Dolomite from Lucerne Valley, California (abstract). 18th International Geological Congress, London. Volume of titles and abstracts, p. 12.
Full text in "XVIII Int. Geol. Congress, Great Britain, 1948, Part III, Proceedings of Sect. B, "Metasomatic Pressures in Metamorphism" (1950), 118-124.
- (1950) (With Edward T. Schenk) Camptonite dikes near Boulder Dam, Arizona. American Mineralogist 35, 671-692.
- (1950) (With Lauren A. Wright) Kyanite paragenesis at Ogilby, California (abstract). Geological Society of America Bulletin 61, 1520-1521.
- (1953) Presentation of the Day Medal to Sterling B. Hendricks. Proceedings of the Geological Society of America (for 1952), 55-58.
- (1954) Contact metamorphism in Southern California. California Department of Natural Resources, Division of Mines Bulletin 170, 51-60.
- (1956) (With Robert P. Sharp) Memorial to John Peter Buwalda (1886-1954). Geological Society of America Proceedings, 107-112.
- (1957) (With J. S. Loofbourow, Jr.) Preliminary geologic map and sections of the magnesite belt, Stevens County, Washington. U. S. Geological Survey, Mineral Investigations Field Studies Map MF 117.
- (1958) Teaching and research--immiscible components or isomorphous series? Journal of Geological Education 6, 11-14.
- (1958) The Industrial Minerals. Engineering and Science Magazine 22, 20-25.
- (1959) The industrial minerals, research, and mineral policy. Proceedings of the Utah Academy of Sciences 36, 27-43.
- (1960) (With Staff) Annual report of the State Mineralogist, Chief, Division of Mines, for the 110th fiscal year, 56th Report State Mineralogist, 7-75.
- (1961) Report of the President. Meeting file for Board of Directors, American Geological Institute, April 27, 1961 and November, 1961.
- (1962) (With J. S. Loofbourow, Jr.) Geology of the magnesite belt of Stevens County, Washington. Contributions to Economic Geology, U. S. Geological Survey Bulletin 1142-F, F71-50.
- (1963) State of mineralogy: Why, whence, and whither? American Mineralogist 48, 227-240.

- (1965) Preparedness for disaster -- the geologist's role. Mineral Information Service 18, California Division of Mines and Geology, 51-53.
- (1965) (With B. W. Troxel) Geologic hazards -- Urban mapping program of the Division of Mines and Geology. Mineral Information Service 18, California Division of Mines and Geology, 161-163.
- (1965) Program of the Division of Mines and Geology, in Proceedings of the Earthquake and Geologic Hazards Conference, San Francisco (1964). California Resources Agency, 68-72.
- (1967) Man versus geology, in "Water, Geology and the Future." Proceedings of the conference (1964) 71-81. (Sponsored by Water Resources Research Center, Bloomington, Indiana).
- (1968) Earth scientists and political scientists need each other. International Geological Congress, 23rd session (Prague, Czechoslovakia) Proceedings (Sect. 12, Engineering Geology in Country Planning), 19-27.
- (1969) Mene, mene, tekel upharsin. Geological Society of America Bulletin 80, 553-560.
- (1972) Committee on Geological Sciences, Ian Campbell, Chairman, The Earth and Human Affairs, Canfield Press, San Francisco, 142 p.
- (1972) Geology, environment and citizenship. Proceedings, 24th International Geological Congress, Symposium 1, 1-6.
- (1972) Search for the philosopher's stone. The Professional Geologist 9, December 1972 Suppl., 101-105.
- (1974) (With Arthur Court) Minerals, nature's fabulous jewels: Harry N. Abrams, Inc., New York, 318 p.

End of supplemental material.