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Guide to the

George W. Bain Collection

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THE GEORGE W. BAIN COLLECTION

RECEIPT for the gift received of Mr. George W. Bain:

PUBLICATIONS: These are all written by George W. Bain.

"Agate Point Rocks." Reprinted from American Journal of Science, Vol. XI, April 1926.

"The Age of the 'Lower Cretaceous' from Bisbee, Arizona Ureanite." Reprinted from Economic Geology, Vol. 47, No. 3, May 1952.

"Alluvial Fan Deposits in the Upper Huronian." Reprinted from American Journal of Science, Vol. VIII, July 1924.

"Almandite and its Significance in the Contact Zones of the Contact Grenville Limestone." Reprinted from Journal of Geology, Vol. XXXI, No. 8, November-December 1923.

"Amount of Assimilation by the Sudbury Norite Sheet." Reprinted from Journal of Geology, Vol. XXXIII, No. 5, July-August 1925.

"The Central Vermont Marble Belt." Guidebook prepared by Mr. Bain for the New England Intercollegiate Geological Association for their 34th annual field meeting on October 14-16, 1938.

"Chrysotile Asbestos: I, Chrysotile Veins." Written with Stanton B. Keith. "Chrysotile Asbestos: II, Chrysotile Solutions." Reprinted from Economic Geology, Vol. XXVII, No. 2, March-April 1932, and No. 3, May 1932.

PUBLICATIONS: continued

- "Climatic Zones of the Paleozoic Era." Reprinted from the Report of the International Geological Congress, XXI Session, Norden, 1960. Part XII, Regional Paleogeography, Copenhagen, 1960.
- "Climatic Zones Throughout the Ages." Reprinted from Polar Wandering and Continental Drift, a publication of the Society of Economic Paleontologists and Mineralogists, a division of the American Association of Petroleum Geologists.
- "Concentration of Brines and Deposition of Salts from Sea Water Under Frigid Conditions: Discussion." Reprinted from American Journal of Science, Vol. 254, December 1956.
- "Contact Metamorphism and Related Changes in Composition." Reprinted from Fifteenth Biennial Report of the Vermont State Geologist, 1925-1926.
- "Correlatives of the Grenville Series." New York: Bulletin of the Geological Society of America, Vol. 49, 1938.
- "Evidence of Assimilation and Assimilation Processes." Reprinted from Journal of Geology, Vol. XXXIV, No. 7, October-November 1926.
- "Flowage Folding." Reprinted from American Journal of Science, Vol. XXII, December 1931.
- "Geologic History of the Green Mountain Front." Reprinted from Fifteenth Biennial Report of the Vermont State Geologist, 1925-1926.
- "Geological, Chemical and Physical Problems in the Marble Industry." Technical Publication No. 1261-H. 89, p. 96, American Institute of Mining and Metallurgical Engineers, published in Mining Technology, November 1940.
- "The Geology and Mineral Deposits of the Harricana and Bell River Basins." Transactions of the Canadian Institute of Mining and Metallurgy, Part of Vol. XXX, 1927. This paper was awarded first prize and the President's gold medal in the 1926 Students' Competition.
- "The Geology, Paragenesis, and Reserves of the Ores of Lead and Zinc." Edited by K.C. Dunham. This is a review of this book. Reprinted from Economic Geology, Vol. 45, No. 6, September-October 1950.
- "The Graphite Deposits of Louisa, Quebec." Reprinted from Economic Geology, Vol. XXIV, No. 7, November 1929.

PUBLICATIONS: continued

- "Guidebook: Geology of Northern Part--Connecticut Valley."
Edited by Mr. Bain. Prepared for the 49th meeting of the
New England Geological Conference.
- "The Holyoke Range and Connecticut Valley Structure." Reprinted
from American Journal of Science, Vol. 239, April 1941.
- "Huronian Stromatoporiid-Like Masses."
- "Influences on Migration of Uranium and Radioactivity." Written
with Hans W. Schreiber. Amherst College, Amherst, Massachusetts.
January 1954.
- "Killarneyan Intrusives of Sudbury." Burlington: University of
Vermont.
- "Land and Sea on the Canadian Shield in Precambrian Time."
Reprinted from American Journal of Science, Vol. XXVII,
April 1934.
- "A Laurasian Looks at Gondwanaland." Annexure to Volume LXVII.
Published by the Geological Society of South Africa.
- "Lumar--A New Development in the Stone Industry." Reprinted from
Mining and Metallurgy, June 1936.
- "Mapping Climatic Zones of the Geologic Past." Reprinted from
The Yale Scientific Magazine, Vol. XXVII, No. 5, February 1953.
- "Marble Deposits of Northern Newfoundland." Newfoundland Department
of Natural Resources, Bulletin No. 11, 1937.
- "Measuring Grain Boundaries in Crystalline Rocks." Reprinted from
Journal of Geology, Vol. XLIX, No. 2, February-March 1941.
- "Mechanics of Metasomatism." Reprinted from Economic Geology,
Vol. XXXI, No. 5, August 1936.
- "Mineral Resource Areas." Reprinted from the McGraw-Hill Encyclopedia
of Science and Technology, 1960.
- "Mining Marble." The American Institute of Mining and Metallurgical
Engineers, Technical Publication No. 626, 1935.
- "Mongolian Magmas." Bulletin of the Geological Society of America,
Vol. 46, 1935.
- "Mongolian Magmas." Bulletin of the Geological Society of America,
Vol. 46, 1936.

PUBLICATIONS: continued

"The Northern Area of Connecticut Valley Triassic." Reprinted from American Journal of Science, Vol. XXIII, January 1932.

"Origin of Huronic Conglomerate." Reprinted from the Pan-American Geologist, Vol. XLIV, No. 5, December 1925.

"Patterns to Ores in Layered Rocks." Reprinted from Economic Geology, Vol. 55, No. 4, June-July 1960.

"The Perspectograph." Reprinted from Economic Geology, Vol. XXXVI, No. 1, January-February 1941.

"Physiographic Development of Canadian Shield." There are three articles on this subject, dated August 1926, December 1926, and February 1927. All are reprinted from Pan-American Geologist, Vol. XLVII and XLVIII.

"Presentation of Paleomagnetic Data, Polar Wandering, and Continental Drift." Reprinted from American Journal of Science, Vol. 261, February 1963.

PRINCIPLES OF GEOLOGY. A textbook written by Mr. Bain. Ann Arbor: Edwards Brothers, Inc., 1959.

"Pyrite Oxidation." Reprinted from Economic Geology, Vol. XXX, No. 2, March-April 1935.

"Reconnaissance for Uranium in the Phosphoria Formation." United States Atomic Energy Commission, RME-3141, June 1956. Technical Information Service Extension, Oak Ridge, Tennessee.

"Resorption as an Agent in Freeing Hematite From the Grenville Granite Magma." Transactions of the Canadian Institute of Mining and Metallurgy, part of Vol. XXIX, 1926.

"Scale Model Reproduction of Tension Faults." Written with John H. Beebe. Reprinted from American Journal of Science, Vol. 252, December 1954.

"Serpentinization of Vermont Ultrabasics." Bulletin of the Geological Society of America, Vol. 47, 1936.

"Serpentinization: Origin of Certain Asbestos, Talc and Soapstone Deposits." Reprinted from Economic Geology, Vol. XXIX, No. 4, June-July 1934.

"Service of the Surveys." Reprinted by the American Institute of Mining and Metallurgical Engineers, 1934.

PUBLICATIONS: continued

"Skeleton Quartz Crystals." Reprinted from The American Mineralogist, Vol. 10, No. 12, December 1925.

"Spontaneous Rock Expansion." Reprinted from Journal of Geology, Vol. XXXIX, No. 3, November-December 1931.

"Structure of Gold-bearing Quartz in Northern Ontario and Quebec." Technical Publication No. 327-I. 30, of the American Institute of Mining and Metallurgical Engineers, issued with Mining and Metallurgy, May 1930.

"Syngensis and Epigenesis of Ores in Layered Rocks," XXIII International Geological Congress, Vol. 7, 1968.

"Tectonics of Original Huronian of Webbwood, Ontario." Burlington: Vermont University.

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"Klassic Age Rift Structure in Eastern North America." Reprinted from Transactions of the New York Academy of Sciences, Ser. II, Vol. 19, No. 6, April 1957.

"Types of Magnesium Deposits and Their Origin." Society of Economic Geologists, Publication No. 34, August 1924.

"Uranium Deposits in Southwestern Colorado Plateau." United States Atomic Energy Commission, RMO-982, August 1952. Technical Information Service, Oak Ridge, Tennessee.

"Uranium in the Dirty Devil Shinarump Channel Deposit." United States Atomic Energy Commission, RMO-66, June 1952. Technical Information Service, Oak Ridge, Tennessee.

"Urano-Organic Ores." Reprinted from Economic Geology, Vol. 52, No. 2, March-April 1957.

MISCELLANEOUS:

"Contents." A list of articles and where they can be located.

"Youth and Hope, or Age and Caution." A poem, two pages long. Chapel Address, Amherst College, 1946.

"The New Era." Chapel Address, Amherst College, 1946. Reprinted in financial pages of New York newspapers, 1956. Used as theme at dedication of the first Blind River Uranium Mine.

(Signed)

Gene M. Gressley
Director

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