

MEMORIAL OF GRAHAM STEWART MACKENZIE

W. E. HALE, *Geology Department, University of New Brunswick.*

The sudden passing of Graham Stewart MacKenzie on May 5, 1960 shocked and saddened his many friends who sincerely sympathize with his wife Alice, his two sons Blake and Ross, his father, four brothers and two sisters.

Graham MacKenzie was born in Toronto in 1905 but spent most of his early years in Winnipeg. He graduated from the University of Manitoba with the degree of Bachelor of Science in 1929. He attended the University of Toronto and received from there the degrees of Master of Arts and Doctor of Philosophy in 1930 and 1934 respectively. His Ph.D. thesis entitled "Some Post-Cambrian Mineral Deposits of the St. Lawrence Basin," involved a combination of his major interests; economic geology, mineralogy and chemistry.

From 1928 until the completion of his academic training at Toronto in 1934, he worked in the provinces of Manitoba, Ontario and Quebec. He gained from E. L. Bruce, J. M. Thompson and B. T. Denis excellent and interesting field training and experience which was to become so valuable to him during subsequent years as geologist and teacher. From these early travels and associations he also developed a collection of anecdotes and stories of the "bush" which never failed to interest and entertain his students and friends.

Graduating during the depression, Graham's qualities, experience and training served him well and he joined the staff of the Quebec Bureau of Mines where he worked under the direction of the late J. A. Dresser for whom he frequently expressed great respect and admiration.

In 1935 Alice Ross, originally of Bridgewater, N. S. became Mrs. Graham MacKenzie and during the next 25 years she graciously and quietly combined her natural social talents with those of her husband in a manner which made their home a friendly, informal and intellectually stimulating haven for students, professors, professional colleagues and the many friends who came to know and respect them through the years.

Graham joined the staff of the University of New Brunswick in 1937 and became Professor and Head of the Department of Geology in 1945. The Department grew rapidly in quality and numbers of students under his leadership, and during his last years, a program of post-graduate training and research was developed which gained for the department and the university, reputation and respect in many quarters. In 1957 students and former students organized a dinner and presentation to demonstrate in a simple but serious fashion their thanks for the many

'extra' kindnesses they had received from Graham and Alice MacKenzie.

He served his adopted province with enthusiasm and distinction in the field as well as in the classroom and laboratory. He worked for the federal and provincial surveys, unravelling some of the problems of Appalachian Geology in New Brunswick and always gave freely of his time to encourage, advise and assist those, either professional or amateur, interested in rocks and minerals.

The discovery of the large base metal deposits in Northern New Brunswick is rightly credited to an early program of exploration which Graham MacKenzie devised and directed. Although the material aspects of his life did not vary greatly as a result of his endeavors, his modest pride in achievement was a more important compensation.

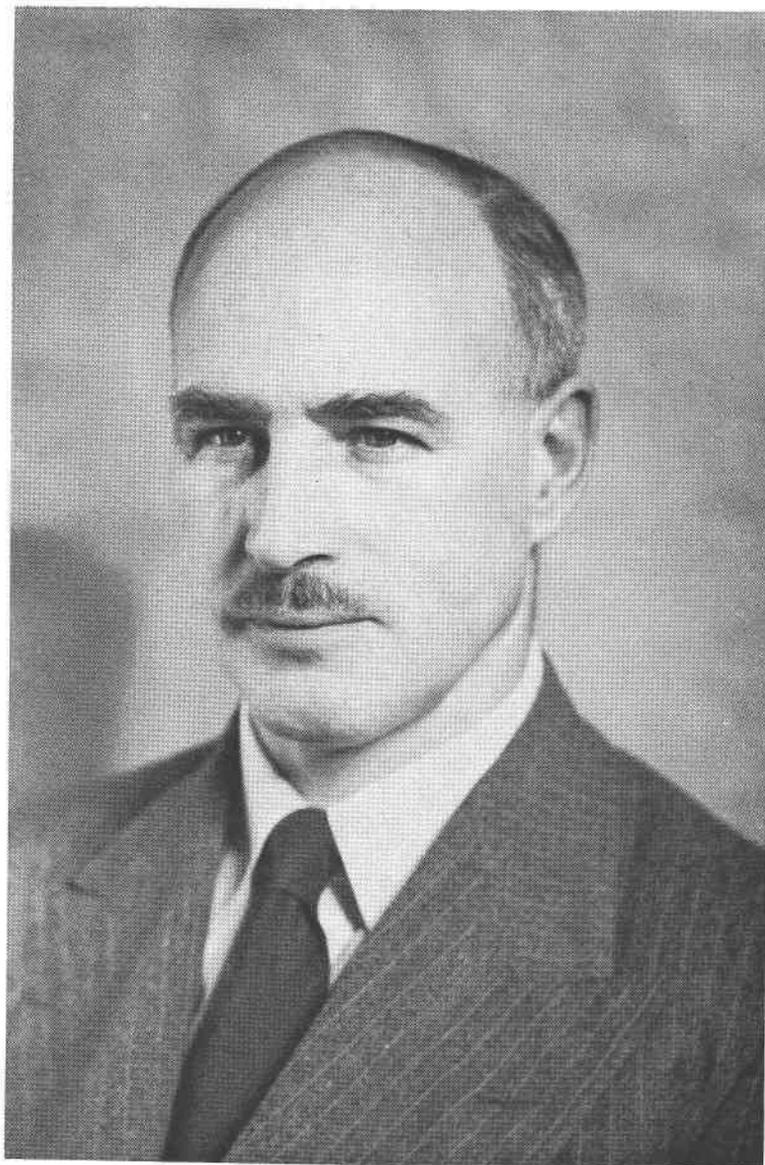
It was however to his students that Graham devoted the bulk of his energies and his genuine interest and warm sympathy endeared him to faltering freshmen and aggressive graduates alike. His office door was always open and students of all departments found in "Doc" MacKenzie a willing, sincere, respected and capable confidant. His unselfish service to many worthy organizations and university committees reflected the respect and unassuming authority which he commanded from within and outside academic circles.

In part as recognition of his contribution of the discovery of the base metal deposits in the Bathurst-Newcastle camp, the University of New Brunswick conferred on him an honorary Doctorate in Science in 1953 and Mount Allison University granted him posthumously an honorary Doctorate in Law in May, 1960. He was a Fellow of the Royal Society of Canada, a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy, a Fellow of the Mineralogical Society of America, a Member of the Mineralogical Association of Canada and the Canadian Institute of International Affairs. He also served the Canadian Advisory Committee on Research in the Geological Sciences.

Graham MacKenzie's warm friendliness, good humour, keen intelligence and modest mien will be remembered and missed especially by his students and colleagues within the much larger number of his friends and acquaintances.

SELECTED LIST OF PUBLICATIONS BY GRAHAM STEWART MACKENZIE

- (with D. R. Derry) Geology of the Manitoba-Ontario Boundary Line (12th Base Line to Latitude 54), *Annual Report, Ont. Dept. of Mines*, 1931, **Part II**, 40.
 Pusticamica Lake Map Area, Abitibi District: *Que. Bur. Mines, Ann. Rept. for 1934, Part C*, 1935, 45-64.
 Madeleine Lake Gold Discovery: *Que. Bur. Mines, Ann. Rept. for 1934, Part A*, 1935, 125-132.



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- Field Report on the Currie Township Map Area: *Que. Bur. Mines, Prelim. Rep.* **105**, 1935.
- Currie Map Area, Abitibi District: *Que. Bur. Mines, Ann. Rept. for 1935, Part B*, 1936, 81-108.
- Mining Properties of the Chibougamau-Opemisca Region: *Que. Bur. Mines, Prelim. Rep.* **111**, 1937.
- The Arntfield Area, Abitibi County: *Que. Bur. Mines, Prelim. Rep.* **122-B**, 1938.
- The Halliwell Mine Map Area: *Que. Bur. Mines, Prelim. Rep.* **131**, 1939.
- Fortune Lake and Wasa Lake Map Areas, Dasserat and Beauchastel Townships: *Que. Bur. Mines, Geol. Rep.* **5**, 1940.
- The St. Stephen Area, Charlotte County, Paper **40-6**, *N. B. Dept. of Lands and Mines*, 1940.
- Halliwell Mine Map Area, Beauchastel township: *Que. Bur. Mines, Geol. Rep.* **7**, 1941.
- The Mt. Champlain Map Area: *Report of the N. B. Dept. of Lands and Mines*, **1941**.
- Lead, Zinc and Silver Prospect at Reserve Brook, Queens County, N. B.: Paper **42-1**, *N. B. Dept. of Lands & Mines*, 1942.
- The Bathurst Iron Mine Report & Map: *N. B. Dept. of Lands and Mines*, **1943**.
- The Mt. Pleasant Map Area, N. B. Prelim. Map: *N. B. Dept. Lands and Mines*, **1943**.
- The Reserve Brook Lead-Zinc Deposit, New Brunswick: *Acadian Naturalist*, **1943**.
- Clones Coal, Queens County, Paper **44-2**, *N. B. Dept. Lands and Mines*, 1944.
- The Vernon Copper Mine: Paper **45-1**, *N. B. Dept. of Lands and Mines*, 1945.
- The Crock Point, Macnataquac Dam-Sites: *N. B. Resources Development Board*, **1945**.
- (with F. J. Alcock) The Sussex Map-Area, N. B.: *Geol. Surv. Canada, Map 845A*, 1946.
- Bathurst Iron Mine, New Brunswick: Paper **49-2**, *N. B. Dept. Lands and Mines*, 1949.
- The Hampstead Map-Area, New Brunswick: *Geol. Surv. Canada, Paper 51-19*, 1951.
- The Westfield Map-Area, New Brunswick: *Geol. Surv. Canada Paper 51-15*, 1951.
- (with F. J. Alcock) Geology of the St. Stephen Area, Charlotte Co., N. B.: *Map 1096A*, *Geol. Survey of Canada*, 1960.