Memorial of Leonard G. Berry 1914–1982

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Leonard Gascoigne Berry, a Fellow of the Mineralogical Society of America and a Past President, died suddenly on June 29, 1982, at Westport, Ontario. His death is a great loss to the Society, and to mineralogists both in Canada and around the world.

He was born in Toronto, Ontario, in 1914, and was almost completely a product of the University of Toronto educational system, attending the University of Toronto model school from 1924 to 1932 and proceeding to the University, obtaining his B.A. in 1937, M.A. in 1938 and Ph.D. in 1941. While a university student, he gained valuable field experience with both the Geological Survey of Canada and the Ontario Department of Mines.

After graduation, during World War II, he spent four years in industry in the optical department of Research Enterprises Ltd. in Toronto. In 1944 he joined the teaching staff of Queen's University, Kingston, Ontario, and progressed from Lecturer to Professor. In 1967 he was appointed Miller Memorial Research Professor at Queen's, a post he held until his retirement in 1979, when be became Professor Emeritus of Mineralogy and Crystallography.

In addition to his teaching and research, Dr. Berry made contributions to the Queen's academic community through his work on several university committees. He was Chairman of Undergraduate Studies in the Department of Geological Sciences from 1955–1970 and Chairman of Graduate Studies from 1970–1977. He was a member of the Queen's University Senate from 1970 to 1973, and Chairman of the Mathematics and Physical Sciences Division of the School of Graduate Studies from 1975 to 1978.

His years of effective teaching led to the publication of two undergraduate standard texts: "Mineralogy: Concepts, Descriptions, Determinations" (1959) and "Elements of Mineralogy" (1968), both co-authored with Brian Mason. A second edition of "Mineralogy: Concepts, Descriptions, Determinations," with revision by R. V. Dietrich, has just been published (1983).

His research interests included morphological and structural studies of minerals, crystal structure, and Xray diffraction and general mineralogical studies. His extensive work on the sulfosalts of lead and silver minerals led to the publication of top-notch papers and particularly, in 1962, to the important Memoir of the Geological Society of America, No. 85, known as the Peacock Atlas



in commemoration of the work of Professor Martin A. Peacock, Dr. Berry's mentor at the University of Toronto. Another former student of Peacock's, R. M. Thompson, acted as co-author of this volume; both shared the perfectionism inspired by their work with Professor Peacock. Continuing his work with powder data, Berry later collaborated with P. Bayliss, Mary E. Mrose and Deane K. Smith in the publication of "Mineral Powder Diffraction File, Data Book and Search Manual."

His Presidential Address to the Mineralogical Society of America in 1964, "Recent advances in sulfide mineralogy," indicated his contributions to the mineralogy of the sulfosalts. In his early studies of sulfosalts he stressed the advantages of systematic classifications of these minerals based on cell dimensions. However, later he progressed to classifications based on the abundant new structural data accumulating from continued refinements in structural analyses of these minerals.

Not the least of Dr. Berry's contributions to the scientific community was his long and very successful

editorship of the *Canadian Mineralogist*. He began by taking over from Professor Peacock the editorship of "Contributions to Canadian Mineralogy" and served from 1950 to 1957. He was the founding editor of the *Canadian Mineralogist*, and served from 1957 to 1975. On his retirement from that position, he was appointed Editor Emeritus, and was honored by the special "Berry Issue" of the *Canadian Mineralogist* in 1976. In addition, he served as an Associate Editor for *Mineralogical Abstracts* (London) and as Associate Editor and Editor for Mineral Data for the X-ray Powder Data File of the American Society for Testing Materials.

Recognition of Dr. Berry's considerable potential for serving his profession was recognized in his election to important posts in many scientific societies. In 1957 he helped to found the International Mineralogical Association, which he served as Councillor for many years and was its Treasurer from 1960 to 1974. He was a member of the Canadian National Committee on Crystallography from 1948 to 1970. Important executive offices included President of the Mineralogical Society of America in 1963 and President of the Mineralogical Association of Canada in 1976.

In addition to being a Fellow of this Society, Dr. Berry was active in many other scientific societies including the Geological Association of Canada, the Walker Mineralogical Club (Toronto), the American Crystallographic Association, the Royal Society of Canada and the Mineralogical Society of Japan. He held honorary memberships in the Mineralogical Society (London), Clube Mineralogoca Brazil, and the Soviet Mineralogical Society.

With such a record of accomplishments, it is not surprising that Dr. Berry was the recipient of many prestigious awards. On graduation from the University of Toronto he received the Coleman gold medal in geology. He received the Guggenheim Fellowship in 1954, and was awarded the Willet G. Miller medal of the Royal Society of Canada in 1963. In May, 1982, shortly before his untimely death, he became the first recipient of the Past Presidents' Medal of the Mineralogical Association of Canada, established to recognize individuals who have a record of distinguished scientific contributions to mineralogy in Canada.

In 1941 Dr. Berry was married to May Catherine Milthorpe in Toronto. They had two children, a daughter, Susan Elizabeth Bower, who is married to an oil geologist and now lives in Englewood, Colorado, and a son, Paul Richard Berry, who lives in Ottawa. There are also four grandchildren, Charles Bower and Nicole Bower, and Lisa Berry and Melisa Berry.

Len was a very dear personal friend, and I always looked forward to mineralogical meetings where I might have the opportunity of seeing him again. He was nearly always accompanied by his charming wife, May, and, when the children were younger, they were sometimes able to come along also. Members of the American Crystallographic Association may recall with pleasure an early meeting of the Association at McGill University when young Paul acted as guide and elevator operator at the Physical Sciences Centre. Personally, I particularly recall the graciousness of his acceptance of the Miller Medal of the Royal Society of Canada, when his enthusiasm for his work was an inspiration to all of us. I remember also his acceptance of the Past Presidents' award of the Mineralogical Association of Canada, when he received a spontaneous standing ovation from his fellow mineralogists. We are happy to remember him with great pride as a Fellow of our Society.

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