

## Lauriston (Larry) Derwent Calvert 1924–1993

Lauriston (Larry) Derwent Calvert died in Australia on 19 February 1993 after a long illness. He was 68. Larry is survived by his wife, Barbara, and a daughter, Margaret, and a son, Alistair, from his first marriage to Margery.

These simple words do not convey how deeply those of us who knew Larry will miss him. Nor do they begin to measure his impact on the International Centre for Diffraction Data (ICDD), its staff, and volunteers. In the paragraphs that follow, we attempt to inform the readers of *Powder Diffraction* of some of the impact Larry had on the ICDD and, by implication, his influence on the work of those with whom he worked.

Larry began working with the ICDD (actually one of its predecessor organizations, the American Society for Testing and Materials, ASTM) in 1964 when he contributed his first four powder patterns. These patterns, all intermetallic materials, were published in Set 9 of the Powder Diffraction File. Over the course of his work with ASTM, the Joint Committee for Powder Diffraction Standards (JCPDS); and the ICDD, he contributed nearly 1300 powder diffraction patterns to the PDF. Most of these patterns are for intermetallic phases or phases important in studies of metals, but 67 were for organic compounds contributed about 1967 for PDF Set 12. His most recent metal and alloy contributions are in the ICDD editorial process today and will be published soon. Thus his powder diffraction contributions span three decades (1964–1994).

Contributed powder patterns were not Larry's only contribution to the ICDD. He was also active in the organization itself and in the production of its products. He began by serving as a consultant to the ICDD Board of Directors from 1978 to 1982. In 1982 he joined the ICDD as an active volunteer member. He was elected to the Board of Directors in 1984 and served a 4-year term. He was an extremely active member of the Metals and Alloys Subcommittee from 1983 to his death. Last, he served as the chairman of the Metals and Alloys Subcommittee from 1992 to 1993.

Foremost among Larry's ICDD achievements was his leadership in the re-organization and critical review of metals, alloys, and related phase data in the PDF. This work led to the publication of the Metals and Alloys Indexes in 1992.

In these indexes, the organization, selection of materials, and use of alphabetic formulae are similar to those in standard metallurgical references, e.g., Pearson, Ellicot, Shunk, and Villars and Calvert). This new book of Metals and Alloys Indexes includes both an alphabetical formulae index and a Pearson Symbol index in which all phases are sorted by crystal structure. These features, all suggested by Larry, have brought the Metals and Alloys Subfile of the PDF into the mainstream of materials research.

Larry was one of the prime movers and strong contributors to the Metals and Alloys Task Group which had the major responsibility for re-evaluating all the PDF data prior to the production of any new products. His goal was to constantly improve and update the data. To this end, much of the business and discussion of the last meeting of the Metals and Alloys Subcommittee centered about many of Larry's concerns and, indeed, this last meeting was dedicated to his memory.

What is discussed above by no means covers all that Larry accomplished as a scientist. We have mentioned how his work has affected the ICDD and the PDF. Readers should also be aware of the earlier edition of Villars and Calvert as well as the more recent revised edition. The International Union of Crystallography will cover Larry's work with them, especially, Structure Reports.

Those who wish to make donations to the L. D. Calvert Trust Fund may do so to Professor Michael N. G. James, Department of Biochemistry, University of Alberta, Edmonton, Alberta T6G 2H7, Canada or to the Canadian Cancer Society. The trust fund is for student scholarships, and it will be administered by the Canadian National Committee of the International Union of Crystallography, Professor Michael James, Chairman. Larry's family has indicated how delighted they were with the trust fund, because Larry himself had benefited from scholarships when he was young.

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