

Madame Chancellor:

I have the honour to present to you Henry Edmison Duckworth, Bachelor of Arts, Bachelor of Science, Doctor of Philosophy, Doctor of Science, Fellow of the American Physical Society, Fellow of the Royal Society of Canada and Officer of the Order of Canada.

Dr. Duckworth was born in Brandon, Manitoba, the only child of the late Rev. Henry B. Duckworth and Ann Edmison Duckworth. His schooling took place in the Winnipeg area however, at first at the Old Central School, Transcona and later in St. James. He entered the University of Manitoba then went to United College for the greater part of his training and graduated from the University of Manitoba with a B.A. in 1935. He returned to this University for his B.Sc. degree which was awarded in 1936. The following year he obtained his teaching certificate and went to Stonewall Collegiate where he taught mathematics for a year before returning to United College to teach physics. In 1940 he moved to Chicago for graduate work under Dempster, one of the pioneer mass-spectroscopists, who extended, on this continent, the original work of Aston in Cambridge, England. The Ph.D. degree was awarded in 1942. It was in this period that this graduate student who now stands before you realized that detailed information relating to nuclear structure could be obtained from a mass-spectrometer if only its precision could be improved sufficiently. This improvement was in fact fully achieved with the design and construction by Harry Duckworth and his associates in 1962 of a superb instrument capable of weighing atoms to the almost incredible accuracy of one part in a billion.

After his graduation from Chicago he proceeded to work on Defence Research at the National Research Council but not before he had had the good fortune to marry the then Katherine McPherson of Winnipeg. He returned to the Physics Department at the University of Manitoba in 1945 but a year later, proceeded to Wesleyan University, Connecticut as Associate Professor of Physics and remained there for the next five years, being active in teaching and research. Harry Duckworth returned to Canada in 1951 to McMaster University as Professor of Physics and it was there, during a 14 year stay that some of his most significant work was done, including the creation of the spectrometer to which I have earlier referred.

Nor were all his energies devoted to scientific pursuits. Dr. Duckworth served as Dean of Graduate Studies at McMaster for his last four years there, relinquishing his positions to accept the office of Vice-President (Development) at the University of Manitoba in 1965. A year later he became our Vice-President (Academic), a position he held till 1971 when he accepted his present post as President and Vice Chancellor of our sister university, the University of Winnipeg.

With 3 books, over 70 research papers and 26 conference and general publications, Harry Duckworth is recognized as a world leader in his chosen field. He is, as it were, the Dean of Mass Spectroscopy.

Endeavours of this magnitude do not go unnoticed. In 1954 Dr. Duckworth was elected to Fellowship in the Royal Society of Canada. In 1961 the University of Manitoba made him the recipient of the Jubilee Award. In 1964 he was awarded the medal of the Canadian Association of Physicists and the next year the Royal Society of Canada granted him the Tory medal. It was with particular gratification that his friends learned of his appointment in 1976 as Officer of the Order of Canada.

These spectacular achievements in the scientific field should not obscure the view of the man himself. The very number of his friends attest to his qualities of mind and spirit. He has made contact through Boards and Committees with many aspects of the life of the community and his wide service to education provincially and nationally has made his name known and respected across the land.

Madame Chancellor, five Canadian universities have awarded Dr. Duckworth honorary Doctorates in Science. He would therefore seem well equipped to carry out the mandate to teach the laws of nature wherever he goes. It may be fitting, then, for his *Alma Mater* to open to him a new field of endeavour, that of exercising the mediaeval privilege of teaching law both civil and canon throughout the civilized world, so it is with very great pleasure that I request in the name of the Senate, that you confer on Henry Edmison Duckworth the degree of Doctor of Laws, *Honoris Causa*.

D. R. Campbell
President

May 25, 1978