

With so much to absorb his attention it is surprising that Bruun found time to indulge in recreation of any kind, but he did it by extending his biological interests to botany and gardening. When at sea his cabin soon became filled with exotic plants, which he tended until they could be brought home. His garden was a great pleasure to himself and to his visitors, wealthy in its variety of shrubs and trees and in their association with places and people that he knew. His last letter to me contained a request for the name of a pear tree from which he had obtained a successful graft.

Bruun had a gentle, purposeful, stimulating enthusiasm which radiated to those around him. He was a happy man despite personal disability, illness and bereavement. At sea he once said as we were measuring and identifying fishes, "Well, we may not be great zoologists but no one can deny that we are enjoying ourselves". So far as his greatness is concerned there can be no doubt that his place is assured among the leaders of marine zoological research. His purpose held until he died, and this happened as he would have wished, while discussing a thesis with his colleagues from the *Galathea* expedition and other marine zoologists on the distribution and origin of the abyssal fauna.

F. C. FRASER

Prof. Lester W. Sharp

It was a most fortunate coincidence that the period during which Dr. Lester W. Sharp devoted a lifetime of service to Cornell University as a distinguished professor of cytology included the years in which this long-established science became allied with the rapidly developing new sciences of genetics and cytogenetics. His contributions to this alliance as a teacher and investigator were indeed very significant.

Born at Saratoga, New York, April 21, 1887, Dr. Sharp moved at an early age with his family to Alma, Michigan, and completed his undergraduate training at Alma College in 1908. After spending the next two years in graduate study at Johns Hopkins University he transferred to Chicago, where he specialized in plant morphology and received a Ph.D. in 1912. The following year was spent in travel abroad and six months of study with Prof. Victor Grégoire in the University of Louvain.

Dr. Sharp joined the staff of the Department of Botany in the College of Agriculture in Cornell University as an instructor in 1914, the year following the formation of the Department and the appointment of Prof. K. M. Wiegand as head. Promoted to an assistant professorship in 1915 and a professorship in 1920, Sharp served continuously until his retirement in 1947 after thirty-three years of distinguished service to the University. Shortly thereafter he moved to Nuevo, California, where he lived in quiet retirement with Mrs. Sharp, adjoining the home of his sister, until his death on July 17, 1961.

Soon after going to Cornell, Dr. Sharp organized one of the first courses in plant cytology to be offered in an American university. His *Introduction to Cytology*, published in 1921, was the first American text-book of cytology with primary emphasis on the plant cell. Considered the standard text-book of plant cytology for many years, numerous editions were printed and a German translation was issued in 1931. Sharp's *Fundamentals of Cytology* was written in 1943 primarily for use as an elementary text, and a Spanish edition was published from Buenos Aires

in 1947. In addition to his text-books Sharp was the author of numerous scientific papers on embryogeny, spermatogenesis and chromosome structure in plants.

Prof. Sharp's excellent reputation as a teacher was based on an extraordinary grasp of the literature of cytology and the new science of cytogenetics at a time when rapid growth was taking place in these fields. His critical evaluation of new contributions was based on a broad background of knowledge in his own and related fields. Sharp's lectures and publications were models of orderly arrangement and of lucid, concise presentation, reflecting meticulous care in their preparation.

During his active scientific career, Prof. Sharp's influence stimulated many promising young scientists to concentrate their efforts in the broad fields of cytogenetics, where their brilliant researches have contributed substantially to the spectacular progress which has been and is continuing to be achieved in this field.

L. F. RANDOLPH

Dr. John Bartholomew, C.B.E.

To geographers and cartographers the name Bartholomew is indeed a household word, for the family have been map-makers of distinction for more than a hundred years. The name goes on and the work continues, but with the recent death of the fifth in the family line, John Bartholomew, an outstanding Scot, passes from the stage he graced in so many ways and despite, latterly, the severe handicaps of failing health.

He was educated at Merchiston Castle School, Edinburgh, and received specialist training at the University of Leipzig and the Sorbonne to fit him for the inevitable cartographer's career. In the First World War he served with the Gordon Highlanders and won the M.C. At the termination of hostilities he completed his arts degree at Edinburgh, and in 1920, on the death of his father, found himself with the entire responsibility of John Bartholomew and Son on his shoulders. He completed *The Times Survey Atlas* commenced by his father, and started a long line of atlases, which blazed a new trail in meeting the ever-growing needs of schools and universities, the business man and the layman. New projections were devised to meet more adequately new demands, colour layering became a most artistic adjunct to science and no new technique to clarify lettering and legend was overlooked. Permanence was sought in new inks and new paper, essential for documents to withstand wide changes in temperature and humidity. In 1921 he was appointed cartographer to H.M. King George V.

The list of publications under Bartholomew's direction is a most impressive one, yet he found time to serve in other fields dear to his heart. He played a large part in the founding of the chair of geography in the University of Edinburgh and in securing for the Department adequate library and laboratory facilities. He was joint honorary secretary of the Royal Scottish Geographical Society for thirty years and then occupied the presidential chair for four. He was a most active member of the Executive Committee of the National Trust for Scotland.

His university awarded him an honorary LL.D. in 1956, the Royal Scottish Geographical Society its Gold Medal in 1954, and the Royal Geographical Society its Founder's Medal "for distinguished service to cartography" in 1961, the year after he received his C.B.E.

D. A. ALLAN