Bibliography of American Paleobotany for 1984

Elso Barghoorn
1915-1984
BIBLIOGRAPHY OF
NORTH AMERICAN PALEOBOTANY
FOR 1984

Compiled under the auspices
of the
Paleobotanical Section
Botanical Society of America

by
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DEDICATION

Elso Barghoorn was born in New York City on June 30, 1915. He received his A.B. in Botany and Chemistry from Miami University in 1937 and his Ph.D. in Biology from Harvard in 1941. His thesis research concerned the ontogeny and phylogeny of rays in dicotyledons, but even as a graduate student, Elso spent much of his time thinking about fossil plants.

Upon leaving Harvard, Elso took up residence at Amherst College, but in 1943, his career was interrupted by a call to serve the Allied cause in World War II. Elso spent 1943-46 in Panama, conducting research on fungal destruction of leather and fabrics - a serious problem for American forces in the Pacific theater. After the war, he returned to Amherst, but left in 1946 to become Assistant Professor of Botany at Harvard University. Elso was to spend the rest of his life at Harvard, rising through the ranks to become successively Associate Professor (1949), and Professor (1955). In 1973, he was appointed Fisher Professor of Natural History, Harvard’s oldest endowed chair in the natural sciences.

Elso’s research spanned a wide spectrum of disciplines. From his early work on plant anatomy, he moved on to studies of plant degradation and the origin of coal. With D. H. Linder, he published the first major account of marine fungi (1942), and during the same period completed a classic piece of archaeological botany on an ancient fish weir discovered beneath the streets of Boston. Increasingly, during the 1940’s and early 1950’s, Elso’s research centered on paleobotany, most notably the extensive research he and a series of students carried out on the Brandon Lignite, Vermont, but also including work on coal balls, a Permian Medullosa, fossil maize, and Cretaceous and Tertiary angiosperm woods, leaves, and pollen. Of course, the research for which Elso is best remembered is his pioneering work on the Precambrian evolution of life. With a series of colleagues and students, Elso established the framework for the now diverse field of Precambrian paleobiology.

For his research, Elso received numerous honors, including Phi Beta Kappa (1937), the New York Botanical Garden Award (1968), the Hayden Geological Medal from the Franklin Institute (1968), the Charles Doolittle Walcott Medal from the National Academy of Sciences (1972), and membership in the National Academy of Sciences (1967). His Ph.D. students included William Spackman, Alfred Traverse, Grace Brush, Donald Whitehead, Margaret Wolf-Steeves, Richard Eyde, J. William Schopf, Alexandra Bartlett, Harold Turkel, James Doyle, Umesh Banerjee, Stanley Awramik, Richard Leo, Andrew Knoll, Bruce Tiffney, Paul Strother, and Cecilia Lenk. He also helped supervise the theses of Margaret Bryant Davis and James Waller, and kindled an interest in paleobotany in a number of Harvard and Radcliffe undergraduates, including Jack Wolfe, Jane Gray, and Ann Raymond.

Elso Barghoorn died on January 22, 1984. He is missed by his friends, students, and colleagues.—Andrew H. Knoll, Harvard University, March 21, 1985.
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