

NECROLOGY

Walter Valentine Balduf, Professor Emeritus of Entomology, died on December 13, 1969, after forty-seven years with the University of Illinois. He was born in LaCarne, Ohio, on September 28, 1889.

Dr. Balduf received his A.B. degree from Ohio Wesleyan University in 1916. After a few years of high school teaching, he entered The Ohio State University where he received his M.S. degree in 1920 and the Ph.D. (Entomology) in 1922; during this time, he served as an Assistant in Zoology and Entomology from 1918 to 1920, and an Assistant Entomologist at the Ohio Experiment Station from 1920 to 1922.

He began his long career at the University of Illinois as Assistant Professor of Entomology in 1922, became Associate Professor in 1939, Professor in 1945, and Professor Emeritus in 1958. As a teacher, he turned the natural inquisitiveness of youth to studying living things; as a citizen, he bridged the gap between academia and the community by participation in service clubs, church affairs, etc.; as a researcher, he was interested in the interaction of parasites and predators and their insect hosts.

His writings include some seventy journal papers and three books, two of the latter on the bionomics of parasitic and predaceous insects (both illustrated by his wife), and one on general entomology.

He was a member of The Ohio Academy of Science and the Entomological Society of America. He is survived by his widow, Willma Balduf, of Urbana, Illinois.

Roger Allen Barnett, Chairman of the Department of Physics and Physiology, Ohio Technical College (Columbus), died in the University Hospital on December 10, 1969, at the age of 32.

Mr. Barnett received his B.S. degree in Physics and Mathematics and his M.S. degree in Developmental Physiology from The Ohio State University.

In addition to active participation in The Ohio State University Alumni Association, American Association of University Professors, and The Ohio Academy of Science, he was holder of Extra-class Amateur Radio, Radio Telephone, and Radio Telegraph licenses, and member of the Disaster Communications Corps of Franklin County, American Radio Relay League, and

Institute of Electric and Electronic Engineers, Inc. He was Assistant Emergency Coordinator of Franklin County Amateur Radio Emergency Corps and Assistant Sections Communications Manager for Ohio.

He is survived by his parents, Mr. and Mrs. Chester C. Barnett, and a brother, Terry, all of Columbus, Ohio.

Cecil Ernest Boord, Professor Emeritus of Chemistry at The Ohio State University and internationally known for his research in hydrocarbon chemistry, died on November 3, 1969, at the age of 85. He was born in Veedersburg, Indiana, on June 29, 1884.

Dr. Boord received his A.B. degree at Wabash College in 1907. He was a fellow at The Ohio State University from 1907 to 1909, received his A.M. in 1909, and the Ph.D. (chemistry) in 1912. He remained at that University as Instructor from 1912 to 1914, Assistant Professor from 1914 to 1924, Professor from 1924 to 1951, Research Professor from 1951 to 1954, and Professor Emeritus since 1954. In 1955 the University presented him with the Joseph Sullivant Medal, one of its highest honors for "notable achievement" by an alumnus or a faculty member.

As sidelines to teaching, he was Director of the U.S. Research Division, Gas Warfare Service, from 1917 to 1919; member of the Committee of the Division on Chemistry and Chemical Technology, National Research Council, from 1924 to 1926; member of American Petroleum Institute Research Program, from 1938 to 1959, the program which developed high octane aviation gasoline and for which he was a delegate to the Third Petroleum World Congress (in The Hague, Netherlands) in 1951; director of a synthetic rubber project sponsored by the Goodyear Tire and Rubber Company in 1957; consultant to and member of the Board of Directors of the Chemical Samples Company (Columbus, Ohio) from 1963 until his death.

During his lifetime he gave counsel and direction to over 80 candidates for the doctoral and over a hundred for the master's degrees. In addition he wrote numerous scientific papers for publication in journals, magazines, and collective volumes. He co-authored a laboratory manual in organic chemistry which achieved wide usage. He helped to invent and develop the teaching aid known as "Molecular Models," the first and still the best known of its kind.

He was a member of Sigma Xi, Phi Beta Kappa, Phi Lambda Upsilon, the American Association for the Advancement of Science, the American Chemical Society, the American Petroleum Institute, The Ohio Academy of Science, and the New York Academy of Science (Fellow).

Survivors include his widow, Augusta C.; his daughter, Mrs. Kenneth (Betty) Greenlee; 3 grandchildren, Sally, Bill, and Mark; and several nieces and nephews.

John Bernis Brown, Professor Emeritus of Physiological Chemistry and Director of the Institute of Nutrition at The Ohio State University, died on November 21, 1969. He was born near Rock Falls, Illinois, on December 25, 1893.

Dr. Brown received his B.S. degree from the University of Illinois in 1915, the M.S. in 1917, and, after service as a Lieutenant in the Sanitary Corps during 1918 and 1919, the Ph.D. (chemistry) in 1921. From 1921 to 1923, he was employed as Associate Chemist in Pharmacology at the University of Pennsylvania and from 1923 to 1924, he was Research Chemist with Swift and Company, Chicago.

He began his teaching career as Assistant Professor of Physiological Chemistry at The Ohio State University School of Medicine in 1924, became Associate Professor in 1930, and Professor in 1941. He was named Director of the Institute of Nutrition and Food Technology in 1950 and Chairman in 1957. When he retired in 1964, he was both the Chairman of the Department of Physiological Chemistry and the Director of the Institute of Nutrition. He received an Award of Merit from the Alumni Association of the College of Medicine. The University recognized his contributions by presenting him a Distinguished Service Award in 1964.

Dr. Brown was a teacher in the older and heroic tradition of the University. For a quarter of a century he gave the lectures in a two-quarter course in medical biochemistry and in a comparable course in dental biochemistry and nutrition. In addition, he was repeatedly elected by the university faculty to its major councils and appointed on innumerable committees. As a researcher, his dissertation on the unsaturated fatty acids in fish oils was the first of a notable series on isolation, characterization, and properties of the fatty acids, a series which brought him an international reputation. He was privileged before his death to know and approve that an issue of the International Monograph Series, *Progress in the Chemistry of Fats and other Lipids*, would be dedicated to him.

He was a member and participant in many scientific groups including: Chairman of the Division on Biological Chemistry of the American Chemical Society; Treasurer of the American Institute of Nutrition; Society of Biochemistry; Oil Chemistry Society; Society of Experimental Biology; Institute of Food Technology; the American Association for the Advancement of Science; The Ohio Academy of Science; committees of the National Research Council; and member of the editorial boards of several journals.

He is survived by his widow, Bertha S., whom he married in 1919, and by two children, a son Franklin and a daughter Phyllis, and several grandchildren.

Charles Arthur Dambach, Professor and Director of the School of Natural Resources at The Ohio State University, died in Riverside Hospital on October 30, 1969. He was born in Cleveland, Ohio, on December 31, 1911.

Dr. Dambach received his B.S. degree in Agriculture (Entomology) in 1937, the M.S. in Agriculture (Entomology) in 1941, and the Ph.D. in Ecology (animal) in 1945, all from The Ohio State University. During this time began a blend of academic and professional activities which were destined to make him one of the best known of Ohio conservationists. From 1937 to 1942 he was Associate Regional Biologist with the U.S. Soil Conservation Service, developing programs for erosion control, utilizing plant materials having value for wildlife, and supervising staff working through demonstration projects and Civilian Conservation Corps camps. From 1942 to 1945 he served as Instructor in Zoology and Entomology at The Ohio State University, and as Assistant Director of the Ohio Cooperative Wildlife Research Unit. From 1945 to 1950, he was Associate Professor of Zoology, Director of Conservation Curriculum, and Director of the Conservation Laboratory for teachers; this involved some teaching and some supervising of graduate research related to wildlife resources, as well as the organizing of an interdisciplinary conservation curriculum. From 1950 to 1955, he served as Chief of the new Division of Wildlife, Ohio Department of Natural Resources, where his previous experience found expression in administration of public lands for outdoor recreation, acquisition of land, construction of reservoirs, research in fish and game management, development of regulations for public use of wildlife resources, cooperative relations with federal agencies, preparation of legislative proposals, etc. He returned to the University in 1955 as Director of the Natural Resources Institute, a position concerned with coordinating teaching and research related to natural resources in ten departments of the university, where he organized and conducted graduate and faculty seminars, supervised interdepartmental graduate programs and resource research under contractual agreements, administered the interinstitutional Biological Survey program of about 25 Ohio colleges and universities, and maintained liaison between the university and federal, state, and private resource agencies. In 1967 he was asked by the university to further coordinate natural resource activities, as a result of which, in 1968, he organized the new School of Natural Resources. This meant the development of a new academic program and the coordination of instruction-research-cooperative extension activities, which he handled, together with the administration of the Ohio Biological Survey, as Director, a position which he filled until his death.

Dr. Dambach was unusually active in professional societies. He was past-president or chairman of the Columbus Chapter of Friends of the Land, Buckeye Chapter of Izaak Walton League, Ohio Chapter of Nature Conservancy, Wildlife Society (1958-60), and Worthington Board of Education; trustee or member of the advisory board of the Great Lakes Fishery Commission, Researches for the Future Inc., Ohio Conservation Foundation, Ohio Forestry Association, and Perry Township Board of Education; he served on committees of the White House Conference on Natural Beauty (as delegate), Conservation Needs (USDA), Conservation Advisory to Secretary of Agriculture, National Science Teachers Association for Conservation and Environmental Studies, Conservation Foundation on Environmental Education in American Universities, Commission on Agricultural Pests of National Research Council, etc.; he was a fellow of The Ohio Academy of Science (and instrumental in the formation of its Conservation Section), Society of American Foresters, American Association for the Advancement of Science, Soil Conservation Society of America, etc., and a member of the Ohio School Boards Association, Conservation Education Association, American Ornithological Union, Wilson Ornithological Club, Ohio Wildlife Management Association, Ohio Game Protectors Association, League of Ohio Sportsmen, Ohio Conservation Congress, Outdoor Writers of Ohio, Ecological Society of America, Ohio Section of Wildlife Society, Wheaton Club, Worthington Garden Club, Central Ohio Orchid Society, etc.

His achievements and contributions were recognized by many honors and awards: Outstanding Conservationist, by Ohio Conservation Congress in 1954; Outdoor Writers of Ohio in 1955; Ohio Forestry Association in 1958; Outstanding Contribution to or Achievement in Conservation, by Nature Conservancy, in 1968, Governor's Award, State of Ohio, in 1969; Merit Award, by the Ohio Conservation Laboratory in 1959, and by the Ohio Division of Izaak Walton League in 1969; and Outstanding Key Man Award, by the Conservation Education Association in 1969.

He is survived by his widow, Christine; a daughter, Charlou E. (Mrs. Paul Howald), of Columbus, Ohio; and two sons, George E. of Philadelphia, Pennsylvania, and Charles F. of Stillwater, Oklahoma.

Linden Forest Edwards, Professor Emeritus of Anatomy at The Ohio State University, died in the University Hospital on April 8, 1970, after a brief illness. He was born in Lewisville, Ohio, on November 25, 1899.

Dr. Edwards received his B.A. degree from The Ohio State University in 1922, the M.S. in 1923, and the Ph.D. in 1928. He joined the faculty as Instructor in Zoology in 1923 and, after serving as Instructor in human anatomy at the University of Illinois from 1925 to 1929, returned to Ohio State as Assistant Professor of Anatomy in 1929, became Associate Professor in 1934, and Professor in 1940 until his retirement in 1965; he served as Chairman of the department from 1957 to 1961. He received the university's Distinguished Teaching Award in 1964.

Dr. Edwards was a member of The Ohio State University Faculty Council, the Graduate Council, the Graduate Committee of the College of Dentistry, and the University Committee on Honorary Degrees. In addition, he was the hard-working editor of the College of Medicine's *Journal* from 1957-60 and had served on the library and curriculum committees of the School of Medicine. At the time of his retirement, he was a member of a committee appointed by Dean Meiling on "Appointments and Promotions on the Medical College Faculty." Some of his other

offices were Chairman of the Committee of Medical History and Archives of the Ohio State Historical Society, vice president of the Medical Section of The Ohio Academy of Science and president of the Ohio Academy of Medical History. He was a member of the Council of the American Association for the History of Medicine, the editorial advisor on anatomy for the Journal of Prosthetic Dentistry, and member of the local council of Sigma Xi. He was also a member of the American Association of Anatomy, the International Association for Dental Research, and honorary member of the Columbus Dental Society, Omicron Kappa Upsilon, and Psi Omega.

An extensive writer, Dr. Edwards was the author of four textbooks and numerous scientific papers, and had contributed to other textbooks and many scientific journals. At the time of his death, he had nearly completed a revision of his widely used text on *Concise Anatomy*.

He is survived by his widow, Elizabeth, whom he married in 1925, and a daughter, Linda Jane (Mrs. James Renken) of Albuquerque, New Mexico.

W. W. Klement, a practicing physician of Cincinnati, died on October 8, 1966, at the age of 76. He was born in Cincinnati in 1889.

Dr. Klement graduated from the Ohio Eclectic Medical College in 1917. His post-graduate work was done at the Massachusetts General Hospital from 1920 to 1923, with further study in Germany during 1935. He was on the staff of the Deaconess Hospital and St. Mary's Hospital, and was regarded as an excellent General Practitioner.

He became a member of The Ohio Academy of Science in 1948, a fellow in 1957, and emeritus in 1964. Professionally, he was a member of the Academy of Medicine of Cincinnati, the Ohio Medical Association, and the American Medical Association, as well as the American Academy of General Practice and a fellow of the American College of Physicians.

He was buried in the Memorial Mausoleum at Spring Grove Cemetery in Cincinnati.

Richard E. McCracken, a teacher in the Berea City School District, died in Southwest Community Hospital on February 14, 1969, following an automobile accident. He was born in Portage County, Ohio, about 1917 and moved to Medina about twelve years ago.

Mr. McCracken received his B.S. degree in Education from The Ohio State University and the master's degree from Kent State University. He then taught for a few years in the Medina city schools, during which time he was active in the Society for Handicapped Children and in the development of Camp Paradise, a county day camp for such youngsters. Since 1958 he has taught in the Berea School System, first as an elementary teacher, then as a science teacher in junior High School, and for the past two years as a special education instructor at the Methodist Children's Home.

A veteran of World War II, he had service in both the Army and the Marine Corps.

He is survived by his mother, Mrs. Bess McCracken, who made her home with him; an aunt, Miss Lora McCracken; and two brothers, John H. McCracken of Osceola, Arkansas, and Charles H. McCracken of West Richfield, Ohio.

Orlando Park, Professor Emeritus of Biological Sciences at Northwestern University, died in Evanston Hospital on September 23, 1969. He was born in Elizabethtown, Kentucky, on October 13, 1901.

Dr. Park received his B.S. degree at the University of Chicago in 1925, and the Ph.D. (Zoology) in 1929. He served as Assistant Professor of Zoology at Kent State College from 1929 to 1930, and as Instructor at the University of Illinois from 1930 to 1934, and then went to teach at Northwestern University as Assistant Professor of Biology in 1934, becoming Associate Professor in 1937, and Professor in 1942. He was Chairman from 1961 to 1963, and he retired in 1968. During his lifetime, he directed well over twenty doctoral students.

His professional commitment is indicated by his membership affiliations: as consultant to the Oak Ridge National Laboratory of Atomic Energy Commission, Division of Biology and Medicine, 1954; as editor of a section of *Biological Abstracts* from 1942 to 1963; as American representative for *Pedobiologie* from 1935 to 1938; as fellow of the American Association for Advancement of Science, Entomological Society of America, American Society of Zoology, British Ecological Society; as member of The Ohio Academy of Science, Ecological Society of America (president in 1943), American Society of Naturalists, Panama Natural History Society, Biological Society of Washington, Illinois Academy of Science, American Biological Society, Chicago Entomological Society (president), Society of Systematic Zoology, National Speleological Society (merit award for cave research, 1954), and Honorary Curator of Zoology of Chicago Academy of Science. He is listed in American Men of Science, Who's Who in America, and World's Who's Who in Science.

While he did some research at the Marine Biological Laboratory at Woods Hole, Massachusetts, and at Barro Colorado Biological Station with the National Park Service, his basic research interests were twofold: (1) in the ecology of the forest community, with special interests in the periodism of forest insects and in the energetic cycling of food materials through the web of life, and (2) in general entomology, with particular emphasis on the biology of beetles of the family *Pselaphidae*.

Studies in these areas resulted in many articles for professional journals and several books, among which were: *Laboratory Manual of Animal Ecology and Taxonomy* (1939), *Study in*

Neotropic Pselaphidae (1942), and *Textbook in General Entomology* (nearing completion in 1966), as well as being co-author of *Principles of Animal Ecology* (1949).

He is survived by his widow, Betty; a daughter, Mrs. Patricia Engelmann; three grandchildren; his mother, Mrs. Samuel Park; and a brother.

John P. Pearce, of Route 1, Swanton, Ohio, died in Flower Hospital on February 20, 1969, at the age of 67. He was born in Toledo and had resided in Swanton for the past 28 years.

Mr. Pearce was an alumnus of Kenyon College and a veteran of World War I. At the time of his retirement in 1954, he was a development engineer for the Libbey-Owens-Ford Company. His professional memberships included: American Ordnance Association, The Ohio Academy of Science, American Society of Tool and Manufacturing Engineering, American Association for the Advancement of Science, and the Society of Glass Technology in Sheffield, England.

Surviving are his widow, Sally; a son, William F., of Louisville, Kentucky; a stepdaughter, Mrs. Marilyn Childress, of Dubuque, Iowa; a sister, Mrs. Hazel Happ, of El Paso, Texas; seven grandchildren, and one great grandchild.

John Sanford Richardson, Professor of Science Education at The Ohio State University, died on May 22, 1969, at the age of 60. He was born in New Weston, Ohio, on December 14, 1908.

Dr. Richardson received his B.S. and M.S. degrees from Miami University in Oxford, Ohio, in 1933 and 1936, respectively, and the Ph.D. (Science Education) from The Ohio State University in 1942. His earliest teaching experience was in the public schools, which included elementary, junior, and senior high assignments. In 1936 he went to Miami University as an Instructor in science and science education, was promoted to Assistant Professor in 1939, and to Associate Professor in 1942. From 1942 to 1947 he taught various courses in education and served as the principal of the McGuffey School at that university. He joined the faculty of The Ohio State University as Associate Professor in the College of Education in 1948 and became Professor in 1953. During his tenure at The Ohio State University, he served as Coordinator of the Area of Science Education, Director of several National Science Foundation Academic Year Institutes and Summer Institutes, and the Director of the ERIC Information Analysis Center for Science Education from 1956 to 1968. He also served as a member of the summer faculty at Northwestern University in 1953, at Rutgers University in 1954 and 1955, and at Oregon State College in 1956.

Professor Richardson was active in many professional associations related to science and science education. He was a member of the National Science Teachers Association (of which he was past-president and past-treasurer), American Association for the Advancement of Science, National Education Association, National Association for Research in Science Teaching, National Society for the Study of Education, The Ohio Academy of Science, and U. S. National Commission for UNESCO, as well as of Phi Beta Kappa and Phi Delta Kappa. He also served as consultant to many universities and secondary schools, as well as to a number of state and national committees.

Professor Richardson was the author of numerous articles, research reports, and books related to science and science teaching, many of the latter being used on an international basis. In recognition of his many contributions in this field, he was honored by the National Science Teachers Association in March, 1969, as a Distinguished Science Educator.

He was married in 1937 and to this union were born three children.

Ernest Lincoln Stover, Professor Emeritus of Botany at Eastern Illinois University, died on November 30, 1969. He was born in Bellbrooke, Ohio, on August 28, 1893.

Dr. Stover received his B.S. degree from The Ohio State University in 1917, the M.S. in 1921, and, after a year as a fellow at the University of Chicago, returned to his alma mater as Instructor in Botany and received the Ph.D. (Botany) in 1924. In the meantime, he had accepted a position in Botany at Eastern Illinois State College (now University) where he served as Chairman from 1923 to 1960, and Professor from 1923 until his retirement in 1961. He was a Visiting Professor at the University of Illinois in 1943.

Dr. Stover was a member of The Ohio Academy of Science, American Association for the Advancement of Science, and the Botanical Society of America. He served as Chairman of a Committee on Instruction in the Biological Sciences, National Research Council, from 1941 to 1943.

His research interests were in plant anatomy and ecology, especially in reference to the grasses. He was married in 1930.

Philip H. Vogel, S. J., Professor of Biology at John Carroll University, died at the University on January 19, 1970, at the age of 49. He was born in Columbus, Ohio, on November 11, 1920.

Dr. Vogel received his B.S. degree from Xavier University in 1942, attended the St. Louis University School of Medicine from 1942 to 1943, and received the Ph.D. (Anatomy) from Loyola University of Chicago in 1952. In the meantime, he had entered the Jesuit Novitiate at Milford, Ohio, in 1943 and received a degree at West Baden College in 1948. He was ordained into the Society of Jesus in 1954, and received the S.T.B. degree in 1955. He began his teaching at John Carroll University, where he was made Instructor in Zoology in 1956, Assistant Professor in 1958,

and Associate Professor from 1962 until his death; he had been Chairman of the department since 1960.

At John Carroll University, he combined service and research with his teaching. As chairman of the Committee on Premedical and Pre dental Qualifications, he became a strong force in shaping the curricula in these areas. He spent several summers in research at Jackson Memorial Laboratory, Maine. He developed a program in Radiation Biology with the aid of equipment grants from the Atomic Energy Commission in 1962-63, from the National Science Foundation in 1965-66, and from participation in the Academic Year Institute of Radiation Biology at Cornell University in 1965-66. In addition he was engaged in water-pollution research studies at Walden II, a pond in Leroy Township of Lake County, Ohio.

His affiliation with professional societies included membership in The Ohio Academy of Science and Ohio College Biology Teachers Conference; corporate membership in the Holden Arboretum; position of University representative to the Ohio Biological Survey; and fellowship in the American Academy of Science, which he served as one of its Visiting Scientists.

Dr. Vogel is survived by a sister, Mrs. Joseph Connors of Columbus, Ohio, and four brothers: Dr. Robert, a physician in New Lebanon, Ohio; John, of Richmond, Virginia; Thomas, of Chillicothe, Ohio; and Col. Frank, Jr., of Rockville, Maryland.

Margaret J. Watkins, Professor of Biology at Western College for Women at Oxford, Ohio, died on December 18, 1969. She was born in Cleveland, Ohio, on October 2, 1927.

Dr. Watkins received her B. A. degree from DePauw University in 1949, and the M.S. and Ph.D. (Zoology) degrees from the University of Minnesota in 1953 and 1959, respectively. During 1958-59, she was a National Science Foundation Fellow at Minnesota.

She began her teaching career as an Instructor of Biology at Macalaster College, during the 1959-60 year, then went as Assistant Professor to Reed College, where she stayed for three years. In 1963 she went to Western College and became Chairman and Professor of Biology in 1964.

Her research interest was cytology, with emphasis on the chemical nature of chromosome structure, using interference microscopy and microspectrophotometry. She was the recipient of National Research Foundation grants during 1960-63 and 1964-67.

She was a member of The Ohio Academy of Science, American Association for the Advancement of Science, American Zoological Society, and Society of Cell Biology.

She is survived by her parents, Mr. and Mrs. A. C. Watkins of Cleveland, Ohio, and by a sister, Mrs. William Worth, of Denver, Colorado.

Melville Lawrence Wolfrom, Regents Professor of Chemistry at The Ohio State University and internationally known for his work on carbohydrates, died in University Hospital on June 20, 1969, following a heart attack. He was born at Bellevue, Ohio, on April 2, 1900.

Dr. Wolfrom received his A.B. degree from The Ohio State University in 1924. His graduate work was done at Northwestern University, where he received the M.Sc. degree in 1925 and the Ph.D. (organic chemistry) in 1927. From 1927 to 1929 he was a National Research Council Fellow, working at the National Bureau of Standards, Rockefeller Institute, and The Ohio State University. He remained at the latter institution in Chemistry, being made Instructor in 1929, Assistant Professor in 1930, Associate Professor in 1936, Professor in 1940, and Research Professor in 1960, when he was named one of Ohio's first Regents Professors for national recognition of academic and professional achievement. During 1939 he studied at the University of Zurich as a Guggenheim fellow.

His involvement in professional activities was extensive. Among these were numerous committees, including chairmanship of the Columbus Section on Cellulose and Sugar of the American Chemical Society, and membership in the American Chemical Society; National Defense Resource Committee, Office of Investigation (1940-45); Committee on Chemical Nomenclature, National Research Council (1956-60); chairman of international committees attempting to standardize carbohydrate nomenclature, etc.

Dr. Wolfrom was elected a fellow of the American Academy of Arts and Sciences, New York Academy of Sciences, The Ohio Academy of Science, American Association for Advancement of Science, The Chemical Society (London), British Chemical Society, Society of Biological Chemistry, etc. Honors were bestowed on him by the Austrian Government in 1959. Other honors included the Austin M. Patterson Award for achievements in chemical documentation, and the Kenneth A. Spencer Award for achievement in agricultural chemistry.

The author of more than 530 articles, he served as editor of *Advances in carbohydrate chemistry*, *Methods in carbohydrate chemistry*, and the carbohydrate section of *Chemical Abstracts*.

Survivors include his widow, Agnes Louise; a son, Carl T. of Postoria, Ohio; three daughters: Mrs. David Frank, of Redondo Beach, California; Mrs. Wilson H. Fleming, Jr., of Columbus, Ohio; Mrs. C. Gale Hixson, Jr., of Pontiac, Michigan; three sisters, Mrs. Eva M. Niekirk, Mrs. Yonlande Mittler, and Miss Miriam Wolfrom, all of Lakeland, Florida; and seven grandchildren.

Submitted by the Necrology Committee

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