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2. On the Executive Committee of the *Ohio Biological Survey*:  
D. M. DELONG..... Term expires 1970
3. On the Advisory Board of the Edwin H. and Nellie M. Rausenberger Conservation Foundation:  
G. W. BURNS..... Term expires 1970
4. On the Council of the American Association for the Advancement of Science:  
G. G. ACKER, J. H. MELVIN (Alternate)..... Terms expire 1970
5. Representatives to The Academy Conference:  
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## ANNUAL REPORT 1968-69

A comprehensive Annual Report has been prepared and copies may be requested from The Ohio Academy of Science, 505 King Avenue, Columbus, Ohio 43201.

Only the report of the Necrology Committee is being printed in *The Ohio Journal of Science*

## NECROLOGY

**James Reed Beck**, Professor of Geography at Kent State University, died March 11, 1969, at the age of 64. He was born in Fredericktown, Ohio, on November 9, 1904.

Dr. Beck received the B.S. in Education from Kent State University in 1925 and the M.S. (Geography) in 1929. The Ph.D. degree was conferred by the University of Chicago in 1936. In 1927-29 he had a tuition scholarship at the University of Chicago. He was a member of Sigma Xi and was an honorary member of the Alpha Chapter of Gamma Theta Upsilon.

He began his teaching service in the Bedford, Ohio, High School, where he taught from 1925 to 27. In the summer of 1928 he was an Instructor in Geography at the Illinois State Normal University, Normal, Illinois. He was first appointed to the faculty of the Department of Geography at Kent State University in 1929, and attained the rank of Professor in 1945.

Professor Beck's identification with The Ohio Academy of Science is indicated by the presentation of 15 papers before the Academy in the 20-year period between 1936 and 1966. He also presented two papers at annual sessions of the Association of American Geographers, one before the American Association for the Advancement of Science, and one before the National Council for Geographic Education. He served as a Vice President of The Academy of Science (Chairman of Section G: Geography) in 1946. He served as a member of the Conservation Committee of the Academy, 1947-50, and participated in panel discussions in the Conservation Section, 1950 and 1952.

His publications include his doctoral dissertation, *The Dover-New Philadelphia, Ohio, Area*, University of Chicago Libraries, Chicago, 1942, three articles, and two reviews.

In addition to Fellowship in The Ohio Academy of Science, honorary membership in Gamma Theta Upsilon, and membership in Sigma Xi, he was a member of the Association of American Geographers, the National Council for Geographic Education, the Canadian Association of Geographers, the American Academy of Political and Social Science, the Council of Foreign Relations, and the American Association of University Professors.

At the meeting of the Geography Section of the Ohio Academy of Science at Ohio Wesleyan University on April 25, 1969, the members in attendance passed a resolution recognizing his contributions to the Academy and to the Geography Section in particular.

Dr. Beck is survived by two children, Nancy Beck Paris and James Reed Beck, Jr., and by his widow, Carolyn Wysor Beck.

**Edward Willard Berry**, Professor Emeritus of geology at Duke University, died on May 10, 1968, in Corpus Christi, Texas, where he had lived after his retirement in 1967. He was born in Passaic, New Jersey, on November 24, 1900, and was 67 when he died. His father, Edward Wilber Berry, was a distinguished geologist and a Dean at Johns Hopkins University.

The son, Willard, received his A.B. degree from Johns Hopkins in 1923 and the Ph.D. degree in 1929. He began his professional geologic career as a micropaleontologist with the International Petroleum Company, where he stayed from 1925 until 1928. He was an instructor in the Department of Geology at The Ohio State University from 1929 to 1936. In 1936, he moved to Duke University where he was Assistant Professor until 1938, Associate Professor until 1950, and Professor until his retirement in 1937. He was Chairman of the Department of Geology at Duke from 1936 to 1967. In 1961-62, he was a visiting Professor of Geology at the University of Malaysia.

His professional work included positions as Assistant Geologist with the Maryland Geological Survey during 1921, Field Assistant with the U. S. Geological Survey in 1921 and 1923, Assistant Geologist with the State Bureau of Economic Geology in Texas during 1924, and geologist with the Ohio Geological Survey from 1930 to 1936.

Professor Berry was unusually active in the professional societies in his fields, both at home and abroad. He was a Correspondent, *Revue Geology* of Belgium; member of the paleobotany section of the International Botanical Congress (vice president in 1935); Member of the Council, 18, 19th, 20th, and 21st International Geological Congresses; member, American Association for the Advancement of Science; Fellow, Geological Society of America; Fellow, the Paleontological Society; member, Institute of Mining, Metallurgy and Petroleum Engineers; member, Association of Petroleum Geologists; member, American Geophysical Union; Fellow, Geological Society of London; Fellow, Geological Society of France; Fellow, Swiss Geological Survey; Foreign Corresponding Member of the Peruvian Geological Survey, London Paleontology Society, and Yorkshire Geological Society; member, American Geographical Society; and on the Board of Trustees, Southern Association of Science and Industry.

He was a founder of the Carolina Geological Society, and a past President of the North Carolina Academy of Science (1957-58). He became a member of The Ohio Academy of Science in 1930, and became a Fellow in 1931; he was vice president of Section C (Geology) in 1935, and was given emeritus status in 1967 when he retired. He held membership in Sigma Xi, Kappa Sigma, and the Society of Friends.

In the general field of geology, Dr. Berry had a special interest in micropaleontology, invertebrate paleontology, and Tertiary and Carboniferous paleobotany.

Dr. Berry is survived by his widow, Dorothy Everett Pidgeon, whom he married on October 12, 1925, and by three children: Mary-Susan (Mrs. E. P.) Robare, Edward Lewis Berry, and Samuel Stedman Berry.

**Arthur Charles Devan**, Geologist Emeritus, Illinois Geological Survey, died suddenly of a heart attack on May 1, 1968, at Staunton, Virginia. He was born at Delaware, Ohio, on August 8, 1888, and, at the time of his death, was in his 80th year. He married Mary Edna Arthur on June 17, 1914, and they had one son, Robert, who preceded his father in death.

Dr. Devan received the B.S. degree with a major in geology from Ohio Wesleyan University in 1912. He was awarded the Ph.D. degree by the University of Chicago in 1921. Ohio Wesleyan University conferred on him an honorary degree, D.Sc., in 1942. He began his teaching career as an Assistant in Geology at Ohio Wesleyan in 1912-13 and as an Instructor in 1913-14. While a graduate student at the University of Chicago, he was an Assistant in Geology from 1914 to 1917. He was an Instructor in Geology at The Ohio State University from 1917 to 1919, Assistant Professor at the University of Montana from 1919 to 1921, and Assistant Professor at the University of Illinois from 1921 to 1929.

As a professional geologist, he was Assistant Geologist with the Montana Bureau of Mines from 1920 to 1921, Assistant Geologist with the Illinois Geological Survey from 1923 to 1929, State Geologist of Virginia from 1929 to 1947, Principal Geologist in charge of geological resources, Illinois Geological Survey, from 1947 to 1955, and Geologist Emeritus there from 1955 to 1968.

His affiliation with a number of scientific organizations marked him as an active professional geologist. He was a Fellow of the American Association for the Advancement of Science (vice president, 1946); Fellow of the Geological Society of America; member of the Society of Economic Geologists; member of the Association of American State Geologists (Secretary, 1934-36, President, 1937); member of the American Institute of Mining and Metallurgical Engineers; member of the Geological Society of Washington; member of the Illinois Academy of Science; member of the Virginia Academy of Science; member of the Association of Petroleum Geologists; and Chair-

man, Division of Geology and Geography, National Research Council, 1946-49. He was a member of Alpha Sigma Phi (social fraternity) and of Sigma Xi.

Dr. Bevan's affiliation with The Ohio Academy of Science began as a member in 1912. He was elected to Fellowship in 1920, and was accorded Emeritus status in 1967.

He is survived by his widow, Mary Edna Bevan.

**Howard H. M. Bowman**, Professor Emeritus of Biology at the University of Toledo, died in the Toledo Hospital on December 15, 1967, after a short illness. He was born on November 3, 1886, at Lancaster, Pennsylvania, and had attained the age of 81 at the time of his death.

Dr. Bowman received the Ph.B. degree from Franklin and Marshall College in 1913 and the M.S. degree in 1914. The University of Pennsylvania awarded him the Ph.D. degree in 1917. His major was ecological mycology. He began a long teaching career as an Instructor in botany at Franklin and Marshall in 1914-15; while working on his Ph.D. degree, he taught at the Pennsylvania School of Horticulture (Ambler, Pa.). He was successively Assistant Professor at the University of Pennsylvania, 1916-17; Professor of Biology, Heidelberg College, 1917-18; Professor and Head of the Department of Biology at the University of Toledo, 1919-57; and Professor Emeritus, 1957-1967. He was a Visiting Professor at Western Reserve University in 1927.

With his teaching, he combined service, research, and administrative activities in his special fields of interest. He was named Director of Premedical Studies in 1947, named to the staff of Toledo Hospital in 1943, and was elected to honorary membership in the Toledo Academy of Medicine in 1940. After his retirement, he served as Director of Medical Education of Toledo Hospital, where he supervised the intern and resident staff.

His professional commitment is attested to by his membership in a number of professional and scientific organizations. He was a Fellow of the American Association for the Advancement of Science; member of the Botanical Society, the Genetics Association, American Genealogical Society, and the American Geographical Society; and life member of the Michigan Academy of Science, which he served as vice president. He became a member of The Ohio Academy of Science in 1920, a Fellow in 1921, and served as Vice President in 1924 and as President in 1946-47. He also served as an associate editor of *The Ohio Journal of Science*.

During World War I, he served in the Medical Corps and was stationed at the Army Medical School in Washington, D.C. Throughout his long career, he maintained a continuing interest in medical education. Locally he was a member of the American Association of University Professors and twice served as President. He was a member of the Torch Club (President, 1946-47).

He belonged to Beta Beta Kappa Psi, Sigma Xi, and Phi Kappa Phi honoraries, and was instrumental in establishing a chapter of Alpha Epsilon Delta, an international honor society for premedical and pre dental students. For 39 years he was senior faculty advisor to Pi Kappa Alpha social fraternity.

Among his writings, *The Botanical Ecology of the Dry Tortugas*, *The Physiology of the Red Mangrove*, *Manual of College Botany*, and *Outlines of General Biology* are best known.

In 1936, Dr. Bowman married Edna Katherine Lockwood, who died in 1960. He is survived by a sister, Mrs. Kathrin King, of Greenville, South Carolina, and a brother, John, formerly of Spartanburg, South Carolina, but recently residing in Florida.

**Kenneth Starr Chester**, Professor of Biology at Ohio Northern University, died at Ada, Ohio, on February 26, 1969. He was born at Turners Falls, Massachusetts, on July 21, 1906. At the time of his death he was 62 years old.

He received the B.S. degree from Boston University in 1928, where he was a Fellow from 1928 to 1929, and received the M.S. degree in 1929. He was awarded the M.S. degree by Harvard University in 1930 and the Ph.D. degree (biology) in 1931. He was Assistant Pathologist, Arnold Arboretum, Harvard University, from 1931 to 1932; Sheldon Traveling Fellow from 1932 to 1933; Fellow in Animal and Plant Pathology at the Rockefeller Institute for Medical Research from 1932 to 1937; Professor and Head of the Department of Botany and Plant Pathology, Experiment Station, Oklahoma State University, from 1937 to 1948; Director, Oklahoma A. & M. Research Foundation, from 1945 to 1948; Division Chief and Consultant, Battelle Memorial Institute, from 1948 to 1955; Technical Adviser, Alton Box Board Co. (Illinois), from 1955 to 1963; Professor of Biology, Ohio Northern University, from 1964 to 1969.

Dr. Chester was a fellow, American Association for the Advancement of Science; member, American Phytopathological Society; member, Ohio Forestry Association (President in 1955); Chairman, International Commission on Plant Disease Losses in cooperation with Unesco, 1951-60; Adviser, President's Bipartisan Commission on Industrial Use of Agricultural Products, 1956; and Member, American Pulpwood Association.

He was affiliated with Phi Beta Kappa, Sigma Xi, Pi Gamma Mu, and The Ohio Academy of Science.

His writings include *Nature and Prevention of Plant Diseases* (1942), *The Cereal Rusts* (1946), *Selected Writings of N. I. Vavilov* (Russian translation, 1951), *Plant Disease Losses: Their Appraisal and Interpretation* (1950), and *Paper Making Raw Materials*. He also contributed numerous scientific articles to professional and popular magazines.

He is survived by his widow, Helen Sample Chester; his mother, Mrs. John D. Chester of Sioux Falls, South Dakota; two daughters, Mrs. Desire Packer Greenidge, Boulder, Colorado, and Mrs. Lois Faxon Sousa, Quaker Hill, Connecticut; five grandchildren; and two sisters, Mrs.

Dorothea Murphy, Sioux Falls, South Dakota, and Mrs. Josephine Akerley, Lake Geneva, Wisconsin.

**Donald Roop Clippinger**, Dean of the Graduate College of Ohio University, died in Athens, Ohio, on October 5, 1967, following a heart attack. He was born in Dayton on January 14, 1905, and was 62 at the time of his death.

He received the B.S. degree from Otterbein College in 1925. He received the M.S. degree from The Ohio State University in 1926, and the Ph.D. (chemistry) in 1936. Otterbein awarded him the L.L.D. (honorary) degree in 1956.

He served as Assistant Professor of Chemistry at Otterbein College from 1925 to 1928; Assistant Professor at Ohio University from 1928 to 1936, Associate Professor from 1936 to 1941, Professor from 1941 to 1967, and Chairman of the Department of Chemistry from 1946 to 1951. He was Director of Graduate Studies at Ohio University from 1951 to 1953, and in 1953 was named the first Dean of the Graduate College, a position he held until 1965, when he returned to full-time teaching.

Dean Clippinger achieved success as a teacher of chemistry, as an educator in a broad sense, as an administrator, and as a public servant. He served on the City Board of Education in Athens for 14 years. He was a leader in the organization and development of the Southeast Ohio School Board Association, and was a member of the Ohio School Board Association. He was Secretary and Editor of the *Proceedings* of the Midwest Conference on Graduate Study, 1950-65; member and councillor of the American Chemical Society; Fellow, The Ohio Academy of Science (vice president, 1954); and member of the Ohio Education Association, Sigma Xi, Phi Kappa Phi, and Phi Lambda Upsilon.

He was the author of a *Laboratory Program for General Chemistry* (1946; revised edition, 1954), *Manual for Quantitative Analysis*, and a contributor to the *Handbook of Chemistry*.

Ohio University's new graduate research center has been named the Clippinger Graduate Research Laboratories in honor of Dr. Clippinger, the first Dean of the Graduate College.

He is survived by his widow, Florence Vance Clippinger, whom he married in 1937; by two sons, Dr. Richard V. Clippinger, of Greenville, Ohio, and William V. Clippinger, of Evansville, Indiana; and by one daughter, Miriam Jo (Mrs. Sam) Henderson, of Hamilton, Ohio.

**John Edward Garrett**, a chemical engineer with the Ormet Corporation, Hannibal, Ohio, died on March 12, 1968, at Sardis, Ohio. Born on September 26, 1921, at Alton, Illinois, he was 46 years of age at the time of his death.

Mr. Garrett received the B.S. degree from Texas A. & M. College in 1942. From 1942 to 1950 he was employed by the Aluminum Company of America, and from 1950 to 1962 he worked for Olin Mathieson Chemical Corporation. From 1962 to 1968 he worked for the Ormet Corporation, where he was Manager of Planning and Research.

He was enrolled as a member of The Ohio Academy of Science in 1964.

His survivors include his mother, Mrs. Hazel E. Garrett; his widow, Rose Ann; and four stepchildren.

**James H. Harrold**, Professor and Chairman of the Department of Physics at Kenyon College, died on March 15, 1969. He was 44. He was born in Hamilton, Ontario, and received his collegiate education at the University of Toronto, where he was awarded the B.A. degree in 1945, the M.A. in 1946, and the Ph.D. in 1949. While a graduate student, he was an R. W. Leonard Fellow in Physics and held a National Research Council Fellowship in Physics. He also won the James Loudon Gold Medal in mathematics and physics.

He began his professional career as Assistant Professor of Physics at the University of Manitoba, where he served from 1949 to 1951. He then became Assistant Professor and Associate Professor of Physics at the University of Alberta, where he stayed from 1951 to 1963. He came to Kenyon College as Associate Professor of Physics in 1963, and in July, 1968, he was made Professor and Chairman of the Department.

He was a member of the Canadian Association of Physicists, the Optical Society of America, the American Association of Physics Teachers, and The Ohio Academy of Science. Dr. Harrold was a member of the Unitarian-Universalist Association and was a former trustee of the church in Edmonton, Alberta.

He is survived by his widow, Josephine; three sons, Carl, Eric, and Gordon; his mother, Mrs. A. H. Harrold of Toronto; and two aunts, Miss Ada Harrold of Chicago and Mrs. Will Linklater of Hamilton, Ontario.

**Nelson William Hovey**, Professor of Chemistry at the University of Toledo, died on July 10, 1968, following a heart attack. He was born on August 5, 1905, at Chardon, Ohio, and was in his 63rd year at the time of his death.

He received the B.S. degree from the University of Michigan in 1928, the M.S. degree in 1947, and the Ph.D. degree in 1950. He came to the University of Toledo as a Fellow in 1928 and received the M.S. degree in 1930. He was Instructor in Chemistry at Toledo from 1930 to 1933, Assistant Professor from 1933 to 1942, Associate Professor from 1942 to 1944 and from

1946 to 1951, and Professor from 1951 to 1968. He was Chairman of the Department of Chemistry during 1965-66. He was a Research Associate with the Federal Mogul Corporation, Michigan, from 1944 to 1946.

Dr. Hovey's research interests centered in the field of alloy electrodeposition and he was a contributor to the *Journal of the Electrochemical Society*, of which society he was an active member. He was a member of the American Association for the Advancement of Science; a Fellow of The Ohio Academy of Science; and a member of the American Chemical Society, the American Association of University Professors, and Phi Kappa Phi.

He participated actively as a member of the Examinations Committee, Division of Chemical Education of the American Chemical Society. He was co-author of the widely used Toledo Chemistry Placement Examination.

He is survived by his widow, the former Crystal Lee Kohler, whom he married in 1933; a son, Harold, and a daughter, Mrs. Phyllis Brennan.

**Frederick Hartzler Kreckler**, Professor Emeritus of Zoology, Ohio University, Athens, died on September 1, 1968. He was born in Tokyo, Japan, on December 21, 1891, and was in his 77th year at the time of his death.

He received his A.B. degree from Princeton University in 1904, the M.A. degree from Cornell University in 1906, and returned to Princeton for the Ph.D. degree, which he received in 1909. He held a Class of 1877 Fellowship during 1908-09. He also studied at Freiburg and Munich in Germany, and at the University of Chicago from 1906 to 1908.

As a zoologist and teacher, he first served as Professor of Biology at Marietta College (Ohio), where he was located from 1909 to 1914. He was appointed Assistant Professor of Zoology at The Ohio State University in 1914, and was Professor from 1923 to 1929. He then became Professor and Chairman of the Department of Biology at Ohio University from 1929 to 1936, and Professor and Chairman of the Department of Zoology from 1936 to 1952, when he became Professor Emeritus until his death in 1968.

For many years he was associated with the Lake (Franz Theodore Stone) Laboratory of Biology (Put-In-Bay) of The Ohio State University, as Acting Director from 1916 to 1925, and Assistant Director from 1925 to 1936. He was a member of the Ohio Biological Survey Board from 1929 to 1958.

In the broad field of Zoology, his special interests centered on limnology, ecology, and regeneration in the annelids. He was a Fellow of the American Association for the Advancement of Science, and member of the Society of Zoologists, the Microscopy Society (vice president, 1924), the Ecological Society, and the Society of Limnology and Oceanography.

He had a special interest in The Ohio Academy of Science. He joined the Academy in 1909, became a Fellow in 1920, was Vice President in 1921, and President in 1942-43. He was Director of the Junior Academy from 1948 to 1954, was made an Honorary Life Member in 1955, and received the Academy's Distinguished Service Award in 1960. He also served as Editor of *The Ohio Journal of Science* from 1917 to 1929.

He not only served as Executive Director of the Junior Academy of Science, but he was the founder and first Director of the Science Day Program of the Academy. Each year, as young scientists came to the campus of Ohio University, he was always present to greet them and to encourage them to continue their interests in science. Annually the Academy presents the Kreckler Awards to 10 high schools in Ohio whose science programs are judged to be outstanding.

Mrs. Kreckler, whom he married in 1916, died in 1959. His two children survive: Frederick M. Kreckler, of Highland, Indiana, and Elizabeth (Kreckler) Baker, of Richmond, Kentucky.

**Thomas Huxley Langlois**, Research Professor Emeritus at The Ohio State University, died December 7, 1968, in Columbus, at the age of 70. He was born in Detroit, Michigan, on February 19, 1898. He received the B.S. degree from the University of Michigan in 1924 and the M.S. degree in 1925. The Ohio State University awarded him the Ph.D. degree in 1935. He was a student assistant in Zoology at Detroit Junior College from 1920 to 1922 and at the University of Michigan during 1923-1924, and a graduate assistant in zoology at the University of Michigan during 1924-25. He began his professional career as Assistant Fishery Biologist, Michigan Department of Conservation, in 1925, staying until 1927. He next served as State Fish Pathologist, Michigan Department of Conservation, from 1927 to 1929. He came to Ohio as Chief, Fish Section, State Division of Conservation and Natural Resources, where he served from 1930 to 1946. He was Assistant Director of the Franz Theodore Stone Laboratory of Biology (Put-in-Bay) from 1936 to 1937, and was Director from 1937 to 1956. Concurrently he was a member of the faculty of The Ohio State University, first as Assistant Professor of Animal Husbandry in 1936, then as Professor of Zoology from 1938 to 1956, Research Professor from 1956 to 1964, and finally as Research Professor Emeritus from 1964 until his death.

Dr. Langlois' commitment to the science of biology is attested to by membership and professional service in several organizations, such as the American Fisheries Society (vice president, 1938; president, 1940); Fellow, American Association for the Advancement of Science; Fellow, The Ohio Academy of Science (vice president, Zoology section, 1956; Chairman, Conservation Section, 1942-43); and member of the American Limnologists' Society, the American Society of

Limnology and Oceanography, the American Society of Ichthyology and Herpetology, Sigma Xi, the Wheaton Club, the American Society of Ecologists, the Wildlife Society (vice president, 1938), and the American Institute of Fishery Research Biologists; and Honorary Member, Board of Directors, Toledo Zoological Society, from 1940 to 1957. He also served as a member of the Board of Directors of the Research Foundation, The Ohio State University.

Dr. Langlois' bibliography of more than 125 titles covers a wide variety of biological and popular subjects. As a biologist, he thought of himself as both a professional scientist and as a popular writer, whose mission it was to bring to the attention of the lay reader a report of the numerous ways in which the work of the scientist touches the life of people who have no competence in the field of science.

He was first married to Marina Louise Holmes, who preceded him in death. She was a biologist in her own right and was a joint author with her husband of a number of articles and monographs. Their five daughters survive: Elmire Marina (Mrs. Howard Conklin, Jr.), of Warwick, New York; Esther Ferdina (Mrs. George Damil Steward, Jr.), of Wooster, Ohio; Florence Dhilve Langlois, of Columbus, Ohio; Sarah Zoe (Mrs. Edward Bradford Titchener), of Downers Grove, Illinois; and Caroline Lizzette (Mrs. Allen Wilson Smith), of Tiffin, Ohio. Surviving also are ten grandchildren. He subsequently married Bertha Elliott, in 1964. She also survives and has returned to Hawaii, her former place of residence. One brother, Dr. Dhilve Langlois, of Royal Oak, Michigan, also survives.

**William Roger Murchie**, Professor of Zoology and Chairman of the Department of Biology at Flint College of the University of Michigan, died May 30, 1968. He was born on January 10, 1920, and, at the time of his death, he was 48 years of age. He had been stricken at his home the night before his untimely death on Thursday, May 30.

He received the A.B. degree from Marietta College in 1942, the M.A. degree from the University of Michigan in 1948, and the Ph.D. degree in 1954. He was a University Fellow at Michigan during 1953-54.

He began his teaching career as an Instructor in Biology at Marietta College, where he was from 1948 to 1950. Following this he was Associate Professor at Thiel College (Greenville, Pa.) from 1954 to 1956; Assistant Professor of Zoology at Flint College, Michigan, from 1956 to 1958; Associate Professor from 1958 to 1962, and Professor from 1962 to 1968. He was a member of the original faculty of Flint College, when it was founded in 1956.

His interest in biology was broad, but his specialty was soil organisms, particularly earthworms. He was affiliated with the Michigan Academy of Science, The Ohio Academy of Science, the American Association for the Advancement of Science, the Society of Systematic Zoology, the Ecological Society of America, and the American Society of Zoologists. He belonged to the honorary fraternities of Sigma Xi, Beta Beta Beta, and Phi Sigma. His scientific work was supported at the University of Michigan by grants from the Horace H. Rackham Fund, and at Flint College by a number of grants, including a grant of \$18,000 from the National Science Foundation.

He participated in the national meetings of a number of scientific organizations and was a regular contributor to the national journals in his fields of interest. He contributed the article on earthworms to the *Encyclopedia of the Biological Sciences*.

Dr. Murchie was a member of the Executive Committee of Flint College, and was a member of the University of Michigan Faculty Senate.

During World War II, he was a First Lieutenant in the U. S. Army Air Force.

His immediate survivors include his widow, Betty; two daughters, Miriam and Carol; and a son, William, Jr., all at home.

**Louis A. Pappenhagen**, Professor Emeritus of Chemistry, Mount Union College, Alliance, Ohio, died unexpectedly at his retirement home at Fort Myers Beach, Florida, on March 2, 1969. Born on February 27, 1895, at Perrysburg, New York, he had celebrated his 74th birthday only three days before his death.

He received his B.S. degree from Allegheny College in 1915, his M.S. degree from Northwestern University in 1916, and his Ph.D. in Chemistry from The Ohio State University in 1926.

He taught first in the Oil City, Pennsylvania, high school during the 1916-17 year. Following this, he was Assistant Professor of Chemistry at Ohio Wesleyan University from 1918 to 1925, and then Professor at Mt. Union College from 1925 to 1965, being Head of the Department of Chemistry from 1925 to 1963, and Professor Emeritus from 1965 to 1969. During 1917-18 he was employed as a chemist by the National Transit Company.

He was elected to Phi Beta Kappa at Allegheny College, to Sigma Xi and Alpha Chi Rho at Northwestern University, to Phi Lambda Delta at The Ohio State University, and to Phi Mu Alpha (music) at Ohio Wesleyan University.

In addition to his affiliation with The Ohio Academy of Science, he was a Fellow of the American Association for the Advancement of Science and a member of the American Chemical Society.

He was a past president of the Rotary Club of Alliance, Ohio; chairman of the Red Cross Disaster Survey Committee during 1941-42; a member of the Masonic order; a unit scout master (1939); Buckeye Council Commissioner; and member of the National Boy Scout Council. He received the Silver Beaver Award in recognition of his service to scouting at the council level. He was instrumental in the formation of Alpha Phi Omega, a Mount Union chapter of the collegiate Boy Scout service fraternity.

Dr. Pappenhagen was a chemistry teacher of high repute. In 1961 he received the Manufacturing Chemists Association's Outstanding College Chemistry Teacher Award. More than 4000 students studied chemistry in his classes, and more than 50 of these have gone on to earn the Ph.D. degree and many the M.D. degree.

His first wife was the former Hazel Petrie, whom he married in 1917 and who died in 1960. Their two children survive: Dr. James M. Pappenhagen, Chairman of the Department of Chemistry at Kenyon College, Gambier, Ohio, and May Catherine (Mrs. Joseph K. Horne), of Poland, Ohio. In 1962 he married Mrs. Wilda R. Firestone. She and her three daughters survive. The daughters are Barbara (Mrs. Carl Busch), of Alliance; Carol (Mrs. Gerald Jackson), of Dearborn, Michigan; and Carville (Mrs. Ted Jensen), of Fenton, Iowa.

**Harmon A. Runnels** died February 19, 1969, at the age of 71. He was born at New Way in Licking County, Ohio, on October 8, 1897.

He received his B.A. from The Ohio State University in 1923 and his M.S. degree in 1925. He served as an Assistant in the Department of Botany from 1921 to 1925, and then as Assistant Plant Pathologist, Ohio Agricultural Experiment Station (now Ohio Agricultural Research and Development Center), Wooster, Ohio. He also held the rank of Assistant Professor of Plant Pathology at the Center in Wooster from 1951 until his retirement on July 1, 1968.

His career as a scientist, and particularly as a plant pathologist, was marked by a high devotion to duty as a public employee. He was a keen student of all of the plant sciences, although plant pathology was his specialty. He was the senior author of a widely used *Manual of Ohio Weeds*. He was interested in the chemical control of turf-grass diseases and of the diseases of ornamentals, particularly roses and gladioli.

He will be remembered for his extensive knowledge about plants, about their diseases, and about the numerous sprays and other chemicals used to maintain the health and well-being of the many plants and trees that came under his professional scrutiny.

He was a member of the American Phytopathological Society, The Ohio Academy of Science, Gamma Sigma Delta, Sigma Xi, Gamma Alpha, and the American Institute of Biological Sciences.

He is survived by his widow, Margaret Barr, whom he married in 1927. Burial was in Wooster.

**Alpheus Wilson Smith**, Dean Emeritus of the Graduate School, The Ohio State University, died on April 18, 1969. He was born on January 15, 1876, at Philippi, West Virginia, and had attained the age of 92 at the time of his death.

After taking the college preparatory course at the West Virginia Conference Seminary, he entered the University of West Virginia, where he earned the A.B. degree in 1900. He received the M.A. degree from Harvard University in 1903 and the Ph.D. degree in 1906. Ohio Wesleyan University awarded him a D.Sc. (Honorary) degree in 1942, and The Ohio State University conferred on him the L.L.D. (Honorary) degree in 1946. He held the Whiting Fellowship at Harvard University from 1904 to 1906. He was a member of Phi Beta Kappa and of Sigma Xi honorary fraternities, and of Sigma Chi social fraternity.

Dr. Smith was instructor in physics at Haverford College during 1906-07, Instructor at the University of Wisconsin from 1907 to 1909, Assistant Professor at The Ohio State University from 1909 to 1917, and Professor until his retirement in 1946. He was Chairman of the Department of Physics (and affiliated subjects, such as astronomy and optometry) from 1927 to 1946, Dean of the Graduate School from 1938 to 1946, and President of The Ohio State University Research Foundation from 1946 to 1955. Upon his retirement from teaching in 1946, he was named Professor Emeritus and Dean Emeritus, but his service to the University continued for many years until the infirmities of age, including blindness, made a sheltered life in a retirement community a virtual necessity.

He was a fellow of the American Association for the Advancement of Science. In The Ohio Academy of Science, he was first a member (1912), then a fellow (1922); he was a Vice President in 1923 and President during 1931-32 (Emeritus, 1966). He was a member of the Physics Society, the Association of Physics Teachers, and the Ohio Optometric Association (honorary), and fellow of American Academy of Optometry (honorary).

In the broad field of physics, his special interests included the Hall effect, the Nernst and Leduc effect, thermal and electrical conductivity of alloys, and absorption and band spectroscopy. He was the author of a widely used textbook on physics and of *Careers in Physics*.

Dean Smith's contributions to the advancement of scholarly achievements included his support of the establishment of the Radiation Laboratory, the Cryogenic Laboratory, the graduate programs in medicine and surgery, the organization of research institutes, and the establishment of the Graduate Center at Wright Field. For this last-named contribution, the United States Air Force awarded him the Exceptional Civilian Service Medal in 1958.

He is survived by his widow, Adah A., First Community Village, Columbus, Ohio, and two sons, Robert B. and Theodore B., both of California.

Submitted by the Necrology Committee

GUY-HAROLD SMITH, Chairman  
W. F. HAHNERT  
LOIS LAMPE