

# OBITUARIES OF THE MEMBERS OF THE OHIO ACADEMY OF SCIENCE

## REPORT OF THE NECROLOGY COMMITTEE, 2012

The Necrology Committee of The Ohio Academy of Science consists of William R. Burk (chair), University of North Carolina, Chapel Hill, NC; Christopher Cumo, Canton, OH; and Relda E. Niederhofer, Firelands College of Bowling Green State University, Huron, OH. The committee thanks Norene Holmes, Anton A. Reznicek, Jonathan Riley, and Paul C. Stromberg who were guest contributors. The committee also expresses its gratitude to the following individuals and institutions: Stephen M. Charter, Head and University Archivist, Bowling Green State University; Nancy Cruickshank, Ohio Sea Grant and F. T. Stone Laboratory, The Ohio State University; Robert Dirig, Honorary Curator of Lichens, Cornell University; Michelle Drobik and Lindy M. Smith, The Ohio State University, Archives; Diana Foster, Office of Alumni Affairs, Bowling Green State University; Michael Frost, Manuscripts and Archives, Yale University; Elly (Voss) Hendricks, Dayton, OH; Charles E. Herdendorf, Sheffield Village, OH; David J. Hicks and Philip Orpurt, Professor Emeritus, Manchester University; Bruce Leach, Biology Librarian, The Ohio State University; Lee McLaird, Curator of Rare Books & Special Collections, Bowling Green State University; Kevin Meske, Customer Services, University of Wisconsin Alumni Association; David Null, Director University Archives, University of Wisconsin—Madison; Karen Page Osterling, Administrative Assistant, Office of the Dean, Bowling Green State University Firelands; Shelley Palmer, Assistant to the Chair, Department of Physics, The Ohio State University; Gary Parsons, Collection Manager, A. J. Cook Arthropod Collection, Department of Entomology, Michigan State University; Arleen Pineda, F. T. Stone Laboratory, The Ohio State University; Jeffrey M. Reutter, Director, Ohio Sea Grant College and F. T. Stone Laboratory, The Ohio State University; David Romito, Science Librarian, University of North Carolina—Chapel Hill; James B. Short; Cheri Slattery, John Carroll University; Ronald L. Stuckey, Columbus, OH; Barbara Tysinger, Health Sciences Library, University of North Carolina—Chapel Hill; Gerald A. White, Director, American Legion Buckeye Boys State; and Susan Whitfield, Department of Biology, University of North Carolina at Chapel Hill.

The committee is seeking volunteers to provide information or to write obituaries on deceased members of the Academy whose obituaries have not yet been written for *The Ohio Journal of Science*. Please contact The Ohio Academy of Science if you can assist in this effort. A two-page outline of instructions for preparation on obituaries in *The Ohio Journal of Science*, written by Ronald L. Stuckey, is available from the Academy office.

The following is a list of deceased members of the Academy with the year joined and year of death, if known, whose obituaries have not yet been published in the *Journal*.

WILLIAM R. BURK, chair  
Necrology Committee

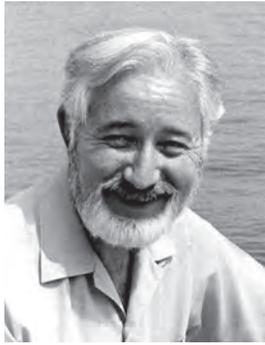
	Year of Death	Year Joined
Anita S. Bowen Dalcero	2010	1948
Dietrich Gudzent	2010	2004
Jerry Henry Hubschman	2012	1958
Franklin Miller, Jr.	2012	1952
William D. Ploughe	2011	1972
Lois M. Price	2009	1968
H. Bradford Thompson	2011	1976

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## JOHN LEE CRITES (1923 – 2010)

John Lee Crites, 86, Professor Emeritus of Zoology at The Ohio State University and noted parasitologist, died 9 January 2010. The cause of death was respiratory failure due to pneumonia. Joining the U.S. Army (August 1943), he served in the infantry in the Pacific Theater of Operations, attaining the rank of Technical Sergeant. In the last months of military service (April 1945-January 1946), he was a parasitologist with the Army Medical Corps in the Philippines and Japan. Crites was designated a “spot-light teacher”



by undergraduate students at OSU (1962) for his excellence in teaching. A pioneer in the study of parasites of fishes of the Great Lakes, he determined parasite cycles of yellow perch. Crites was also a consultant for various government agencies and a reviewer for scientific journals.

Crites joined The Ohio Academy of Science in 1953 while he was a graduate student. He affiliated with the section on zoology (vice president, 1977-1978), was elected a Fellow (1959), and became a life member (1982). He regularly participated in the Academy's annual meetings by presenting papers. An active member of the organization, Crites served as a judge for student projects in biology and was the Central District representative to the Junior Academy (1956-1962). He provided administrative guidance through his membership on the Council of the Academy (1980-1983) and the Executive Committee (1981-1982). Crites served as Academy president (1981-1982) and presented his presidential address on “Diversity and Commonality” at the organization's 91<sup>st</sup> annual meeting, 24 April 1982.

Born 10 July 1923 in Wilmington, OH, Crites was the son of Wilfred John and Mildred Jane (Baker) Crites. Young Crites attended the Wilmington public schools, graduating from Wilmington High School (1941). He then entered the University of Idaho; however, military service interrupted his studies. After being discharged from the armed services, he resumed his college education. At UI he earned a B.S. in zoology (1949) and entered graduate school there. His studies focused on parasitology, a field in which he became interested while serving in the Pacific. Crites earned an M.S. in parasitology (1951). His thesis concerned a survey of visceral parasites of the ruffed grouse, *Bonasa umbellus* Linn., in northern Idaho and was published in part (*Bulletin – Idaho Fish and Game Commission* 2(3): 24-28. 1951). Crites subsequently matriculated at OSU, where he received a Ph.D. in zoology with an emphasis on parasitology (1956). Under the direction of professor Joseph N. Miller, he wrote his dissertation on the “Studies on the Morphology, Taxonomy, and Life History of *Cruzia americana* Maplestone, 1930, a Parasitic Nematode of *Didelphis marsupialis virginiana*” which was published in part (*J. Parasitol.* 42(1): 68-72. 1956).

His early professional positions were: teaching assistant in zoology, anatomy, physiology, and parasitology, UI (1949-1951); assistant (1951) and assistant instructor (1953), both in zoology, OSU. While still working on his doctorate, Crites was appointed instructor in the Department of Zoology (now Department of Evolution, Ecology and Organismal Biology), OSU. There, he advanced in the academic ranks: instructor (1955-1959), assistant professor (1959-1963), associate professor (1963-1967), professor

(1967-1990), professor emeritus (beginning 1990). He chaired the department from 1981 to 1990. Crites was a research investigator at the Franz Theodore Stone Laboratory (1956), where he studied the distribution of aquatic nematodes in Lake Erie and their relationship to the fish food chain. He conducted additional research as a National Science Foundation Fellow at Duke University's Marine Biological Laboratory (1958). Early in his career Crites became a consultant to USAID-NSF to plan and direct, on a trial basis, a biology institute at Aligarh Muslim University and to assist with an institute at Banaras Hindu University (spring and summer, 1964). He visited several universities and colleges in northern India. The trial institutes were successful, and they were expanded and continued for a number of years. While in India, the U.S. Government asked Crites to visit several organizations that supported programs in parasitology before and after his stint.

Crites was known as an outstanding, affable, and gifted professor who taught invertebrate zoology and parasitology on the main OSU campus as well as at Stone Laboratory. He taught over 15 different zoology courses during his tenure at OSU. He developed and introduced into the curriculum the first course dealing with parasites of fishes and wild animals in any university. He conducted a focused research program in parasitology for over three decades. His research and publications entailed investigations on nematode parasites of animals; nematode parasites of plants; free-living nematodes, both marine and fresh water; and the biology, pathology, development, life histories, and taxonomy of parasites of fish and wild animals. Under Crites's direction, his laboratory produced many students and published volumes of scholarly research in the leading scientific journals. He set high standards and led by example. He asked nothing of his students that he would not do himself. In the field Crites pulled as many trawls as his students. In teaching he instilled his genuine sense of wonder about animals and parasites and conveyed this appreciation to all his students in the courses he taught. His enthusiasm and superb skill in communication contributed to his outstanding teaching. Numerous students enrolled in his parasitology classes because of his reputation for rigorous teaching and the passion he brought to the class. Crites was truly a ‘model scientist’ who promoted a lasting curiosity as well as a strong work ethic in his students.

He held a joint appointment at the Franz Theodore Stone Laboratory on Gibraltar Island, Put-in-Bay, OH, where he taught animal parasitology and zoology in summers (1965, 1967-1980). There he investigated the bird and fish parasites of Lake Erie. At the Laboratory he was associate director during the 1970s. His research lab on the island was among the most active, producing numerous graduate students who developed successful and distinguished careers.

In professional associations he held memberships in the American Institute of Biological Sciences, the American Association for the Advancement of Science, the American Microscopical Society, the American Society of Parasitologists (council member), the Annual Midwest Conference of Parasitologists, the Helminthological Society of Washington (editorial board), the International Association for Great Lakes Research, the Ohio Fish and Wildlife Association, the Wildlife Disease Association, and the World Federation of Parasitologists. In honorary societies he was elected to Alpha Epsilon Delta, Gamma Sigma Delta, Phi Sigma, and Sigma Xi.

A talented artist in both pen and ink and watercolor, Crites created some beautiful art work. His pen and ink line drawings of buildings at Stone Lab are among his most noteworthy. Numbered

prints of them are available to those who donate to the scholarship that bears his name, the John L. Crites Research Fellowship at Stone Laboratory Fund. His former students established the fund in 2002 through donations and proceeds from the sale of Crites's prints. To date, the endowment has supported numerous scientists and students working at the lab, including over 60 students who participated in the Laboratory's Research Experience for Undergraduates since 2005. The endowment is an example of Crites's lasting legacy.

In retirement Crites and his wife, Phyllis, spent several winters in Ocean Springs, MS, where they relaxed, enjoyed the mild weather, and further pursued his artistic talents. Even there, however, his curiosity and interest in parasites were still alive. He continued his research at the Gulf Coast Research Laboratory with Dr. Robin Overstreet, a longtime colleague and friend. His studies included investigations on nematodes in vinegar eels.

Crites married Phyllis Naomi (Steelquist) Crites 21 July 1946. Surviving Crites are a daughter, Jill Ann (Steve) Cooks, and children, Heather and Max; and a son, Robert Hilton (Alison) Crites and children, Zach, Haly, Aja, Brielle, and Allaire. The O.R. Woodyard Funeral Home—Northwest Chapel, Columbus, OH, was in charge of arrangements. Crites was cremated, and a private interment was held. Memorial contributions may be made to the John L. Crites Research Fellowship at Stone Laboratory Fund, Franz Theodore Stone Laboratory, 1314 Kinnear Road, Area 100, The Ohio State University, Columbus, OH 43212-1156 (Phone 614-292-8949; <<http://stonelab.osu.edu>>).

--WILLIAM R. BURK with PAUL C. STROMBERG

### PAUL MASON DANIEL (1924 – 2012)

Paul Mason Daniel, 87, Professor Emeritus of Zoology at Miami University in Oxford, OH, died 3 June 2012 at the retirement community Buckingham's Choice in Adamstrom, MD. A zoologist by training, Daniel was a naturalist in the tradition of natural history in the nineteenth century. He had an affinity for nature and a desire to understand as much of it as he could. According to Ohio Academy of Science (OAS) administrator Lynn E. Elfner, Daniel was the "last of the old time naturalists." Among his proudest

achievements, the zoologist hiked the entire Appalachian Trail. Whenever he had vacation, Daniel's wife Lois (Pierson) Daniel, whom he married in 1948, would drop him off at a section of the trail, picking him up a week later. In this way, over the years, Daniel managed to cover the whole trail on foot. A recipient of Oxford, Ohio's Citizen of the Year award, Daniel was active in community service. In 1988 he became the first person honored with the OAS's

outstanding university educator award.

Joining the OAS in 1960, Daniel was elected a Fellow (1980) and became an emeritus member (2004). An active member of the Academy, he served as its president (1985-1986) and as director of the Junior Academy Council (1979-1984). At the Academy's 95<sup>th</sup> annual meeting in April 1986, he presented his presidential address, "Biology and Biologists of the Buckeye Trail," which was published (*Ohio J Sci* 87: 2-9. 1987). Daniel, at Elfner's request,



wrote the guidelines for District Science Day, which remain in force today. In 1962 the OAS's W. A. Manuel invited Daniel to join the Visiting Scientists Program. In this capacity Daniel visited several schools, where he shared his knowledge with students and faculty. His live reptiles captivated students.

Born in Philadelphia, PA, 12 July 1924, Daniel was the eldest child of F. Jackson and Emily (Gilliams) Daniel. The family moved several times in the United States and Canada during young Daniel's childhood. A brief stint in Cincinnati acquainted Daniel with Ohio, with various universities in the region of Miami, and most likely with the University of Cincinnati. In 1942 Daniel graduated from Philadelphia's Abington High School. Instead of directly entering college, he enlisted in the U.S. Army's 34<sup>th</sup> Infantry Division during World War II. As a soldier, he fought in North Africa, where German General Irwin Rommel and his tanks were a threat, and in Italy, earning both the Purple Heart and the Silver Star. At war's end Daniel received an honorable discharge and resumed his studies, enrolling in Miami University. Daniel and his wife moved to the Cincinnati area, where Daniel completed his B.S. in education (1949) at the University of Cincinnati. He then became an assistant in biology at Western College for Women in Cincinnati (1949-1950). Daniel and his family moved in 1950 to Liberia in West Africa, where Paul and Lois were missionaries. At Liberia's Cuttington College, Daniel was a professor of science (1950-1953), instructing in biology and mathematics. Some of his students rose to senior ranks in the Liberian government. Returning to Miami University, Daniel next earned an M.S. in zoology (1954). He wrote his thesis on "A Study of the African Lizard *Agama agama africana* Hallowell," and published on the topic (*Copeia* 2: 94-97. 1960; *Special Publication*, No. 3, Ohio Herpetological Society. 1961). He subsequently taught at Stewart School. Later he was a founding faculty member at Tallawanda High School. Even though he lacked the doctoral degree, he served as an instructor in the Department of Zoology and Physiology, University of Miami (1959-1963, 1964-1965). In the academic year (1963-1964) he was a science faculty fellow, National Science Foundation, The Ohio State University, Franz Theodore Stone Laboratory, Put-in-Bay, OH and Columbus, OH. At Miami University Daniel emphasized the importance of fieldwork. He often took students to local and regional areas of wilderness. Under the direction of aquatic entomologist N. Wilson Britt, Daniel subsequently earned a Ph.D. in zoology (1964) from The Ohio State University. His dissertation entailed "The Dynamics of the Benthic Fauna of Acton Lake in Hueston Woods State Park, Ohio." Daniel rose to the rank of associate professor at Miami University and became a professor emeritus in 1989. Concurrently he was a curator at the Hefner Zoology Museum, University of Miami (beginning 1984), where he rose from instructor to associate professor. He was a member of the American Society of Ichthyologists and Herpetologists and the Society for the Study of Amphibians and Reptiles. He was elected to Sigma Xi.

Among the courses Daniel taught were local flora and fauna and vertebrate zoology, the course for which he was best-known. Former students remember him fondly. Robert Sharp, now a veterinarian, commented that "Paul was my instructor in vertebrate zoology, leading us on many interesting treks through the streams and creeks of the Oxford area... He was a wonderful teacher, inspiring his students with his enthusiasm and making us amazed at the creatures around us. He was also a friend, and I feel honored to have known him." "What a very special man Paul was in my life from very early days," remarked former student Cal Conrad. Daniel

was “a thoughtful, caring, involved person, scout leader, professor.” The admiring Ganett family remarked that “Uncle Paul was always interested in learning about everything. He was an inspiration to us all. We will miss him greatly.” Dave Might of the Cincinnati Museum Center is of a similar mind. “I had Dr. Daniel as a teacher as an undergrad and was fortunate enough to work for him at the Hefner Zoology Museum for a couple of years in the 1980s. He was always very supportive and kind, and I will always consider him a mentor. I’ll always have fond memories of Paul and Lois.” Ron Zemko noted that “Dr. Daniel was my instructor for vertebrate zoology in the fall of 1969 and my favorite of the many zoology faculty from whom I took classes as a Miami zoology major from 1967-1972. Among the most enthusiastic faculty in the department, class with Dr. Daniel was always an adventure, an inspiration, and a pleasure. He will be missed by all who knew him and learned from him.” Many other former students expressed similar sentiments.

Daniel contributed articles and essays to local, state and national life science publications, wrote field guides and curricula, and helped found Miami University’s Institute of Environmental Sciences. After retirement he remained in contact with his former colleagues, serving as curator for the Miami University Hefner Zoology Museum. Active in community organizations, Daniel was scoutmaster for Boy Scout Troop 930 while still an undergraduate. For nearly four decades, Daniel mentored scouts and explorers. The Boy Scouts recognized his commitment to scouting, honoring him with the Silver Beaver award. He served four years on the Oxford City Council and devoted time to Oxford’s NAACP chapter and the Audubon Society. Daniel was a founder of People United for Self Help (PUSH), an organization that provides resources to poor homeowners. As a hiker Daniel wrote a column for Oxford Press. He helped establish the American Discovery Trail, which ran east and west across the entire United States. He also donated money to Ohio’s Buckeye Trail.

Surviving Daniel are a sister, Elizabeth Daniel of Northport, FL; three sons, Christopher Phillip of Frankfurt, KY, Timothy Michael of Philadelphia, PA, and Anthony Paul of Oak Hill, WV; a daughter, Emily Jean of Frederick, MD; nine grandchildren; and two great grandchildren. Lois, his wife of 63 years, predeceased Daniel. Family and friends held a memorial service at the Buckingham Choice chapel service 6 June 2012. Miami University held a memorial service for Paul Mason Daniel 4 August 2012 at the Oxford United Methodist Church. Friends may make contributions to the elementary environmental education program at Environmental Mobile Unit, 5431 Tallawada Lane, Oxford, OH 45056. Interested parties may consult an obituary, a brief curriculum vitae, an archive of former students’ testimonials, newspaper accounts, and records of Daniel’s service in the Visiting Scientists Program on file in the office of the OAS.

--CHRISTOPHER CUMO

### **HARRY DE ROMANA GIBBONS (1924-2011)**

Harry de Romana Gibbons, age 87, died 7 March 2011 in Savannah, GA. He joined The Ohio Academy of Science in 1977, affiliating with the section on engineering.

Born 24 January 1924 in Anequipa, Peru, Harry Gibbons was the son of Charles A. and Luisa (de Romana) Gibbons. Following a stint in the U.S. Navy, Gibbons had a long career as a civil, geological and environmental engineer, beginning at Union Metal Manufacturing in 1948. In 1980 he helped found Engineering Science, an environmental engineering company, where he worked

until retirement in 1985. In addition to membership in the OAS, Gibbons was a member of the Knights of Columbus, Beta Theta Pi, and Sigma Xi.



Gibbons’s parents and wife, Mary Lou (Wild) Gibbons, sister Elizabeth and brother Charles predeceased him. Surviving are children Kathryn Johnson of Chicago, IL, Gregory Gibbons of Western Springs, IN, Diana Gibbons of Vero Beach, FL, and Richard Gibbons of Tampa, FL; grandchildren Chris, Akino, Matt, David, Katie, Torie, Kerry, Sally and John; and sister Luisa Nugent of Savannah, GA. The family held visiting hours 10 March 2011 at Karlo-Libby Funeral Home. St. Paul’s Catholic

Church in North Canton, OH, held a funeral service 11 March 2011, officiated by Reverend Monsignor James A. Clarke. Gibbons was entombed at the North Lawn Cemetery/Mausoleum in Canton. Memorial contributions may be made to Hospice Savannah, P O Box 13190, Savannah, GA 31416 or to St. Paul’s Catholic Church, 241 South Main Street, North Canton, OH 44720. Interested parties may consult a brief obituary on file in the office of the OAS.

--CHRISTOPHER CUMO

### **KENNETH RANDOLPH HILLE (1927 – 2009)**

Kenneth Randolph Hille, age 81, Associate Professor Emeritus of Biology at Bowling Green State University Firelands, died 23 February 2009 at Community Health Partners, Lorain, OH. In the U.S. Navy he was a flight engineer (1944-1948). A noted teacher at BGSU Firelands, Hille received the Outstanding Professor Award and chaired the Department of Natural and Social Sciences (1979-1991). Joining The Ohio Academy of Science in 1963,

he affiliated with the section on ecology. Although his membership lapsed (1968-1978), he rejoined the organization in 1979 and was accorded emeritus status (1994).



Born 16 September 1927 in Brooklyn, NY, Hille was the son of Thomas and Marion (Olsen) Hille. After receiving his high school diploma and serving in the military, he studied at Wagner Memorial Lutheran College where he earned a B.S. in biology and chemistry (1952). Under the direction of

professor Charles H. Otis, Hille pursued graduate studies at BGSU in Bowling Green, OH and received his M.A. in biology (August 1955). His thesis was titled “A Limnological Investigation of the Miller’s Blue Hole, Sandusky County, Ohio.” Fourteen years later he earned a Ph.D. in aquatic ecology (1969) from The Ohio State University. Under the supervision of noted aquatic entomologist N. Wilson Britt, Hille wrote his dissertation on “The Effects of Different Concentrations of LAS on the Toxicity of Dieldrin to the Bluegill (*Lepomis macrochirus*).”

His early professional positions were: analytic chemist, U.S. Army Bureau of Ordnance, Raritan Arsenal, Metuchen, NJ (1948-1950); graduate teaching assistant, Department of Biology, BGSU

at Bowling Green (1951-1954); high school biology instructor, Fremont (OH) City schools (1954-1965); supervisor of student training, BGSU at Bowling Green (1955-1965); part-time instructor in biology, Fremont and Sandusky branches, BGSU (1959-1965); research fellow, U.S. Public Health Service, Water Resources Center, The Ohio State University (1965-1967); and chief research associate, Scioto River Ecological Study, U.S. Corps of Engineers, Institute of Natural Resources, OSU (1967-1968). He joined the faculty in the Department of Natural and Social Sciences, BGSU Firelands, serving as associate professor in biology (1968-1976) and associate professor (1976-1993). Hille also chaired the department (1979-1991). He retired in May 1993 and was accorded emeritus status. Although officially retired, he continued to teach biology until 1999. During his long tenure at BGSU Firelands, he taught a variety of courses: General Biology, Botany, Zoology, Concepts in Biology, Physiology, Ecology, Man and the Environment, Human Biology, Field Biology, Advanced Human Physiology, Local Flora and Fauna, and Careers in Biology. He developed and introduced these last two courses into the curriculum.

Hille also recognized that there was only a three-month difference between a graduating high school senior and a college freshman, and if he was going to expect his students to consistently do college-level work he was going to have to help them make that transition. To do that, he stressed that students needed to fully learn the vocabulary of biology. He also developed his lectures from multiple sources, making the assigned textbook almost a supplemental resource. He then clearly laid out his expectations that his students devote two hours of study for every hour of classroom instruction. He also refused to accept part-time jobs and other obligations as excuses for poor performance. As a result, his students learned how to budget their time between work and rigorous studies, and, in the end, become college students.

Relda Niederhofer, the co-author of this biography, first met Hille when both were working on their masters degrees at BGSU. When the Firelands branch of BGSU first opened in the late 1960s, they became colleagues there. Hille taught biology and Niederhofer taught botany. Their subject interests meshed perfectly, and a twenty-year academic association ensued in which Hille displayed tact and congeniality as a colleague, faculty member, and teacher.

Hille's research focused on the toxicity of chlorinated hydrocarbons, as dieldrin, to fish; toxicity of surfactants, as detergents, to fish; stream macro-invertebrate community structure; and water quality criteria of streams. Among his publications, he co-authored a technical report on "Aquatic Ecology Studies of a Potential Power Plant Site on Sandusky Bay" (Ohio State University, Center for Lake Erie Area Research, Columbus, OH, 1973) with Charles E. Herdendorf. He held memberships in the American Society of Limnology and Oceanography and the American Fisheries Society. He was a member of Sigma Xi honor society.

Hille participated in numerous programs which broadened his expertise in scientific fields. At the Argonne National Laboratory in Chicago, he attended workshops on Nuclear Power and the Environment as well as Nuclear Techniques in Chemical Analysis of Water. He took a course on Cosmology, Protobiology, and Biology at the University of Dayton. Hille served as a consultant for several organizations: the Environment Control Corporation, the Center for Lake Erie Area Research Coordinating Committee, the Erie County Health Association, the Publication Review Committee of the Ohio Biological Survey, and the Technical Advisory Service for Attorneys in Cleveland, OH.

Beyond academia Hille was active in community events and enjoyed several hobbies. He was a charter member of the Fremont Community Theatre and was commodore for the Sandusky Sailing Club. He enjoyed dancing, teaching live dance at Friday Nite Rodeo and being an active member of the Cleveland Federation of Square Dancing. He also skated artistic roller skating at Skateworld in Lorain, OH. He was involved with the Sandusky Harlequins at Sandusky Theater.

Hille is survived by his wife Sharon (Cornelius) Hille whom he married in 1956; sons, Gregory (Becky) Hille of Elyria, OH and Tracy (Laurie) Hille of Sandusky, OH; stepson, Jeff (Lori) Yepko of Michigan; and two grandsons and five granddaughters. Visiting hours were held at Foster Funeral Home, Huron, OH, on 26 February 2009. A private graveside committal service was held in Scott Cemetery, Huron.

--WILLIAM R. BURK with RELDA E. NIEDERHOFER

### ROBERT EUGENE MADAFFER (1927 – 2012)

Robert Eugene Madaffer, 84, retired science teacher in the Whitehall (OH) School District, died 18 January 2012, at Grady Memorial Hospital, Delaware, OH. He had a long struggle with Alzheimer's disease and lived his last years at Willow Brook at Delaware Run, a retirement community in Delaware. He served in the U.S. Navy during World War II. He served the American Legion Buckeye Boys State for more than 55 years in various roles.



In retirement he was a noted and active volunteer in the Bexley (OH) School District.

Joining The Ohio Academy of Science (1960), Madaffer affiliated with the section on science education (vice president, 1974-1975), was elected a Fellow (1980), and became a life member (1994). He was an active member of the Academy, serving as Judging Chair of its State Science Day from the late 1960s to the early 1970s and subsequently as a consultant

for the Junior Academy of Science Council. He was also president of The Ohio Academy of Science (1984-1985). He delivered his presidential address on science and The Ohio Academy of Science at the organization's 94<sup>th</sup> annual meeting on 20 April 1985.

Born 10 May 1927 in Navarre, OH, Madaffer was the son of Joseph and Irene (Sisterhen) Madaffer. He received his diploma from Navarre High School. He matriculated at The Ohio State University from fall 1946 to summer 1957, except for the academic year 1953/1954. He earned a B.S. in education (August 1957). He later entered Cornell University and earned an M.S.T. (1965). He was a teacher in the Whitehall School District for 28 years, instructing in chemistry, physics, astronomy, and earth science. He developed the school's earth science curriculum as well as a hands-on laboratory for general science in an effort to teach science the new way. Madaffer retired around 1986.

In retirement Madaffer became an active volunteer in the Bexley (OH) School District, chairing the Community-Board-Staff Committee and serving on the International Studies Steering Committee. He was also a member of the Long Range Computer Planning Committee and volunteered four periods a week to

supervise the 'Write Place', the computer laboratory at Bexley High School. Through his service on the C-B-S Committee, Madaffer assisted in setting up Kid's Care, a program that provides care for elementary-age children prior to and after school hours. Beyond the school district, he volunteered in other organizations. He was an active member of the American Legion Buckeye Boys State. His involvement with the group began in 1942, when he attended Buckeye Boys State as a representative from his high school. He joined the organization after serving in the military. He later served as president of the Board of Trustees, American Legion Buckeye Boys State (1974-1975, 1975-1976) and subsequently was its secretary for over 20 years. He became Secretary Emeritus in 2007. He ran the Legislative Services Agency within Boys State. As the head of LSA, Madaffer taught young men the legislative process for writing bills and resolutions to be introduced into the Boys State General Assembly, how to research the *Ohio Revised Code* for legislative precedents and existing legislation on file, the use of *Parliamentary Procedure*, and the role of the real LSA in supporting the Ohio House and Senate. He was known for being detailed and meticulous in preparing his teaching tools that he shared with the young men. He was also chief judge of the Ohio Legion state oratorical contest. He was a longtime bartender for CAPA (Columbus Association for the Performing Arts).

Madaffer enjoyed a number of hobbies. He loved Christmas and enjoyed symphonic and baroque music, and model railroads, particularly the Santa Fe Chief. It has been reported elsewhere that "he was known for his great booming voice and laugh and his passion for science."

Surviving Madaffer are a sister, Cynthia McFarren; a brother, Thomas Madaffer of Massillon, OH; and nieces and nephews. He was preceded in death by his wife, Faye Elizabeth (Cornelius) Madaffer. Cremated, a celebration of his life was held at Willow Brook at Delaware Run on 11 February 2012. Memorial contributions may be made to the Council for Older Adults of Delaware County, 800 Cheshire Road, Suite A, Delaware, OH 43015.

--WILLIAM R. BURK

### CHARLES GEORGE MAYER (1918 – 2007)

Charles George Mayer, age 89, former staff member at Wright-Patterson Air Force Base and retired teacher at Bethel High School, Tipp City, OH, died 11 May 2007. He established the Hilda Dierker Scholarship Fund at The Ohio State University to provide scholarships for music students interested in pursuing



careers in public music education. Mayer joined The Ohio Academy of Science (1966), affiliated with the section on science education, and was accorded emeritus status (1983).

Born 19 April 1918 in Columbus, OH, Mayer was the son of Carl F. Jr and Lydia Ann (Dierker) Mayer. After receiving his high school diploma, he entered The Ohio State University, where he earned a B.S. in education (June 1940) and an M.A.

(August 1947). His thesis was titled "A Study of Certain Arts and Crafts of Old Mexico to Determine Their Implications for Industrial Arts Education." He worked at Wright-Patterson Air Force Base and was an industrial arts teacher at Bethel High School. He was

a life member of The Ohio State University Alumni Association.

Surviving Mayer are a brother, Robert Mayer (Alice) of Oakland, CA; nephews, Kirk Mayer and Keith Mayer; a niece, Kathy Mayer, all of California. Funeral services were held at the Trostel, Chapman, Dunbar & Fraley Funeral Home, New Carlisle, OH. Burial took place at New Carlisle Cemetery.

--WILLIAM R. BURK

### EDWARD BRUCE MCLEAN (1937 – 2009)

Edward Bruce McLean, age 72, Professor Emeritus of Biology at John Carroll University in Cleveland, OH, died 24 June 2009 in Montezuma County, CO. An authority on several subfields of biology, McLean took particular interest in birds, mammals and reptiles. Joining The Ohio Academy of Science in 1966, he affiliated with the section on zoology (vice president, 1982-1983), was elected a Fellow (1981), and served on the Academy's Council.



Born 10 January 1937 in Washington Court House, OH, McLean was the son of Richard H. and Nellie Bertana (Whitmer) McLean. Attending The Ohio State University (OSU) (1954-1958; 1960-1968), he received a B.S. in wildlife conservation (1958) and graduate degrees in zoology: M.S. (1963) and Ph.D. (1968). Under the supervision of Carl E. Reese, he

wrote his dissertation on "A Field Study of Acoustical Behavior of the Cardinal *Richmondia cardinalis*." He served in the U.S. Army Medical Corps (1958-1960) and was in the reserves until 1964, when he received an honorable discharge. While on active duty McLean served as research assistant in the U.S. Army Medical Research and Nutrition Laboratory. In this capacity he worked in the physiological section of the Animal Surgery Unit of Fitzsimons General Hospital in Denver, CO. In 1962, while still a graduate student, McLean was a field research assistant in the Central Ohio Stream Survey under the direction of Milton B. Trautman. While in graduate school McLean was a graduate teaching assistant and a graduate teaching associate, teaching ornithology, vertebrate and invertebrate zoology, general zoology and general biology.

In 1969 and 1970 McLean served on the College of Sciences Curriculum Committee at Southern University in Louisiana. Joining the faculty in the Department of Biology at John Carroll University in 1970, he served as assistant professor (1970-1973), associate professor (1973-1978) and professor (beginning 1978). His heavy teaching load included a number of courses: ornithology, mammalogy, ecology, fundamental of ecology, field biology, animal behavior, invertebrate zoology, general zoology, general botany, and general biology. McLean also served as freshman advisor, undergraduate advisor and graduate advisor. He taught the university's first course on biodiversity. McLean chaired the Biology Department between 1981 and 1988. In addition to these duties, McLean was an adjunct instructor in John Carroll University's psychology department, serving in the Begun Institute on Violence and Aggression, in which he focused on the biological aspects of violence and aggression. He retired in 1996.

As an administrator, McLean served on John Carroll University's Honors Advisory Committee (1979-1980), as graduate coordinator in the department of biology, and interim chairman in the biology

department (1976). McLean was an ecological consultant (1973, 1974, 1977-1979). He was also senior associate to the Cleveland Environmental Research Group in terrestrial ecology (1974-1976). McLean's research concentrated on the distribution, ecology and behavior of birds and mammals, endangered species, the effect of the environment on birds and mammals, bioacoustics, and the barn owl in Ohio. The Mary Osborn Memorial Fellowship in Zoology at OSU funded McLean's research in 1967 and 1968. He was also the recipient of a Southern University Foundation Research Grant in 1969 and an Ohio Biological Survey research grant in 1980, enabling him to study the vocalizations of the barn owl. His 21 publications focus on birds, mammals and reptiles.

In addition to his service to the OAS, McLean was a member of the American Ornithologists' Union, the Wilson Ornithological Society, the Cooper Ornithological Society, the Association of Field Ornithologists, the Louisiana Ornithological Society, the American Birding Association, the National Audubon Society and the Wheaton Club. As a member of the Ohio Biological Survey, McLean was a section host at the 1973 annual meeting, an institutional representative (beginning 1975), and served on the executive committee (1975). His community activities included service on the board of trustees of the Shaker Lakes Regional Nature Center (beginning 1976) and on several of its committees, including future development, landscape, and physical facilities. He also assisted the Boy Scouts, Cub Pack 23, and the Girl Scouts (serving on the day camp and the core troop camp and helping as a volunteer naturalist).

McLean married Talia Sue Korn in August 1968, and they had three children before divorcing in 1985. McLean married Janice Victoria on 19 May 1986; they had no children. Surviving McLean are his three children: Scott Walter McLean, Hillary Beth McLean, and Jeremy Ryan McLean. E Bruce McLean was listed in *American Men and Women of Science* and *Who's Who in the Midwest*. Interested parties may consult his curriculum vitae in the office of the Academy.

--CHRISTOPHER CUMO

### RAYMOND EMERSON NISWANDER (1914-2011)

Raymond Emerson Niswander, age 97, Professor Emeritus of Biology at Manchester College, died 10 August 2011 in Timbercrest Healthcare Center in North Manchester, IN. Highly regarded as a teacher and scholar, Niswander trained many physicians, dentists, scientists and laboratory technicians. He received recognition for his excellence in teaching and for his generosity to others. The Indiana Family Practice Physicians honored Niswander with a citation for the education of medical students. Manchester College awarded him a citation for Responsible Philanthropy. Joining The Ohio Academy of Science (1941), Niswander affiliated with the section on zoology and was elected a Fellow (1966).



The son of Noah and Kate (Stetler) Niswander, Niswander was born 8 June 1914 in Bluffton, OH. He received his secondary education in the Bluffton schools and graduated from Bluffton High School (1932). In 1938 he

earned a B.A. from Bluffton College. He then served as a high school teacher at Eden Centralized School, Upper Sandusky, OH (1938-1941). From June 1941 to June 1945, at the height of World War II, Niswander served in the U.S. Army. He then studied entomology in the graduate school at The Ohio State University, earning an M.S. (1946) and a Ph.D. (1950). His thesis entailed a study on the "Toxicity of Benzene Hexachloride (666) and DDT Dusts to the German Roach." Under the supervision of Ralph H. Davidson, Niswander wrote his dissertation on the "Life History and Respiration of the Milkweed Bug *Uncopetus fasciatus* (Dallas)". While completing his requirements for the doctorate, he held the positions of graduate assistant and assistant instructor in the Department of Zoology. In 1950 he joined the faculty in the Department of Biology at Manchester College, where he rose to the rank of professor. He was chair of the biology department for 20 of his 30 years at the college. He retired in 1981. In tribute to him, the president and faculty dedicated the day of a biology symposium at the college in Niswander's honor. "The dedication and loyalty, as well as professional competence Dr. Niswander has shown toward Manchester College has been an inspiration to his students and colleagues," remarked President A. Blair Helman. The symposium drew experts from several areas of the life sciences and medicine, all who had been Niswander's former students. A colleague, Kevin Wolfe, presented a paper on "The Teaching Life of Emerson Niswander."

He was a member of the Wabash County Hospital Board and the Manchester Historical Society, where helped establish the Center for History in North Manchester. In their free time Niswander and his wife collected antiques. In addition to his service in The Ohio Academy of Science, Niswander was a member of the Indiana Academy of Science and the Entomological Society of America. He was elected to Sigma Xi at OSU. He served on the Wabash County Economic Development Committee. Niswander is memorialized by the establishment of the Dr. R. Emerson and Evelyn Niswander Biology Department at Manchester College.

Niswander was preceded in death by his parents and two brothers. His wife, Evelyn (Mullett) Niswander, whom he married 8 June 1941, survives. Also surviving are sons, Ray Niswander, Jr. of Worthington, OH, and Mark Niswander of Mahomet, IL; daughters, Sue Myers of Hershey, PA, and Jan Will of Romeoville, IL. Seven grandchildren and two great grandchildren likewise survive. The Manchester Church of the Brethren held a memorial service for Niswander 27 August 2011, Pastor Kurt Borhmann and Pastor Karen Eberly officiating. The family received friends after the service. McKee Mortuary in North Manchester was in charge of arrangements. Memorial contributions may be made to Manchester College, 604 East College Avenue, North Manchester, IN 46962; the Manchester Church of the Brethren, 1306 Beckley Street, North Manchester, IN 46926; or Timbercrest Senior Living Community, P.O. Box 501, North Manchester, IN 46962. Interested parties may consult an obituary and curriculum vitae on file in the office of the OAS.

--CHRISTOPHER CUMO

### JAMES EDWARD POTH (1933-2011)

James Edward Poth, Professor Emeritus of Physics at Miami University in Oxford, OH, died 12 September 2011 at Woodland Country Manor in Somerville, OH, after a long illness. He earned a commission from the U.S. Navy, serving aboard the USS Albany, in which capacity he taught at the Naval Air Defense Training

Center at Dam Neck, VA. Poth joined The Ohio Academy of Science (1994) and held an interest in physics.

Born 19 May 1933 in Galion, OH, Poth was the son of Ralph and Laura Poth. Young Poth graduated from Norwalk High School in Norwalk, OH (1951). The recipient of a Naval ROTC scholarship, Poth earned a B.S. in physics (1955) at Miami University in Oxford, OH. After three years in the Navy, Poth returned to Miami



University, where he received an M.A. in physics (1960). His thesis concerned "Radiationless Transitions in Mu-mesonic Atoms." He next entered Yale University, where he earned an M.S. in physics (1962) and a Ph.D. in nuclear physics (1966). His dissertation was entitled "Boron Induced Transfer Reactions." Dr. D. Allan Bromley, later a science advisor to President George H. W. Bush, mentored Poth at Yale.

Poth taught at Miami University

for 38 years, holding the following positions: assistant professor (1966-1970); associate professor (1970-1976); and professor (1976-2001). He was also a research staff physicist (1966 and 1974) at Yale University. In the latter capacity, Poth conducted research on transfer reactions.

At the NASA-Lewis Research Center in Cleveland, OH, Poth continued his research in nuclear physics and directed the theses of a number of graduate students. Professor Emeritus Joe Priest collaborated with Poth on some of the NASA research. With an interest in environmental physics, Poth became affiliate professor of Miami University's Institute of Environmental Science, which has been renamed the Institute for the Environment and Sustainability. A member of the institute's first advisory committee, he rose to serve on the executive committee. For many years Poth taught environmental measurements, a core course, introducing students to the utility of quantitative methods in the environmental sciences. He was also affiliate professor in Miami University's Department of Teacher Education. In 1999 Curtin University of Technology in Perth, Australia, invited Poth to serve as visiting professor. Curtin University is the largest university in Western Australia with 24,000 students, some 200 of who were doctoral candidates in science education. Poth served on the American Association of Physics Teachers National Council, and the AAPT Nominating Committee (1992). He was a Southern Ohio Section AAPT Charter Member, a co-director of Teaching Science with TOYS (Terrific Opportunities for Youth in Science), a program that included workshops for K-12 teachers of physics and chemistry, a Southern Ohio Section AAPT Section Representative, host site staff member of the Ohio Mathematics/Science Project Discovery at Miami University, and director of the Physics Institute and the Ohio Mathematics/Science Project Discovery. Poth served on the steering committee of the Miami University Pilot Site, on the National Network for Education Renewal (1991-1993), and on the Ohio Section of the American Physical Society as nominating committee chair (1991). Poth was a co-director of the Miami University Physics Education Project, which aimed to revise the sequence of physics courses at the university. At Carleton College he participated in the Introductory University Physics Project (1988) and was an associate at the Miami University Center for Excellence in Mathematics and Science Education.

Poth's research concerned low energy nuclear physics, physics education, and teaching physics with toys. He was the recipient of numerous grants from several organizations, including the National Science Foundation. Among his publications were a *Study Guide to Accompany University Physics* (Orlando, FL, Academic Press. 1984), coauthored with T. William Houk and John W. Snider; and *Teaching Physics with Toys: Physics Activities for Grades K-9*, coauthored with Beverley A.P. Taylor and Dwight J. Portman (Middletown, OH, Terrific Science Press. 1994; republished under the same title New York, TAB Books. 1995). He also published papers in the *American Journal of Physics*, the *American Association of Physics Teachers Announcer*, the *Bulletin of the American Physical Society*, the *Journal of Science Teacher Education*, the *Ohio Journal of Science*, and the *Physics Teacher*. Poth wrote 15 pre-college inservice workshop publications, 42 physics pedagogy publications, 12 physics research publications and 14 physics pedagogy videotapes and films. In addition to his service to the OAS, Poth held memberships in the American Association of Physics Teachers, the Southern Ohio Section of the AAPT, the American Physical Society, the Ohio Section of the APS, and the National Science Teachers Association. He was a member of Sigma Xi and Phi Beta Kappa honor societies.

An enthusiastic jogger, Poth enjoyed travel, art, and sports and judged the Cincinnati International Wine Festival for sixteen years. "He was patriotic and very enthusiastic about life, including the arts," said wife Alice Faye (Etheridge) Poth. "He loved to collect art and we had season tickets to the Playhouse in the Park, the Broadway Series and the Cincinnati Chamber Orchestra." He treasured family and friends. A member of Faith Lutheran Church at Oxford, OH, Poth relished the time he spent with family and had a love for the Outer Banks of North Carolina. His parents of Norwalk, OH and his brother, Harold Engel of Painesville, OH, predeceased Poth. Surviving him are also his wife Alice, whom he married in 1960, and three children: Michael E. Poth of Dayton, OH, Elizabeth "Betsy" A. Stewart of Charleston, SC, and Amy E. Poth of St. Louis, MO. Seven grandchildren also survive. Faith Lutheran Church held a memorial service for Poth 8 October 2011. He is buried in Oxford Cemetery. Memorial contributions may be made to the Miami University Foundation, c/o Dr. James Poth Memorial Fund, 725 East Chestnut Street, Oxford, OH 45056. Interested parties may consult James Poth's curriculum vitae and a thoughtful obituary on file in the office of the OAS.

--CHRISTOPHER CUMO

### WILLIAM ROBERT RILEY (1922 – 2011)

William Robert Riley, age 89, Associate Professor Emeritus of Physics at The Ohio State University, died 28 December 2011 at the OSU Medical Center due to complications following a fall. He completed active duty as an ensign and lieutenant (junior grade) in the U.S. Naval Reserve (September 1944-September 1946), serving in the Atlantic and Pacific regions. In 2011 the William R. Riley "Excellence in Teaching Physics" award was established at OSU to honor his contributions to physics education. Joining The Ohio Academy of Science (1957), Riley affiliated with the section on physics, was elected a Fellow (1962), and was accorded emeritus status (1988). He participated in the Academy's Visiting Scientists Program, giving presentations on physics to teachers and students (March 1964; October 1969).

Born 31 July 1922 in Bellaire, OH, "Bill" Riley was the son of John Howard and Nora Anne (Robertson) Riley. He received his

secondary school education in the public schools of Bellaire, earning his diploma from Bellaire High School (1940). Under a four-year Alumni Scholarship, he attended Hiram College, where he received a B.A. in mathematics and physics with departmental honors in physics (1944). After serving in the military for two years, Riley then taught mathematics and physics as an instructor at Hiram College



(September 1946-June 1948). He entered graduate school at OSU in October 1948 and majored in physics. He, however, changed his academic pursuits and enrolled in the OSU College of Education in June 1950 and earned a B.S. in education (1951). He then resumed his graduate studies in physics at OSU, receiving an M.A. (1952) and a Ph.D. in science education and physics (1959). His thesis concerned "Using Demonstrations in Teaching High School Physics."

Under the supervision of Professor John S. Richardson, Riley wrote his dissertation on "A Proposed Graduate Credit Physics Course for Secondary School Science Teachers."

His early professional experience in the Department of Physics, OSU was: assistant (October 1948-March 1950), lecture demonstration assistant and part-time instructor (October 1951-October 1953), and instructor in charge of demonstrations (1953-1959). Upon receiving his doctorate, Riley joined the faculty of physics at OSU, where he advanced in the academic ranks: assistant professor (1959-1964), associate professor (1964-1987), and associate professor emeritus (beginning 1987).

Devoting a lifetime to the teaching of physics and the training of physics teachers, he focused attention on the advancement of techniques and the value of the education process. He provided material assistance to Professor Franklin Miller, Jr. of Kenyon College in the production of several silent film loops for classroom instruction. The film loops demonstrate phenomena too complicated, dangerous, or time-consuming to be performed live. Riley's contributions in this endeavor with Dr. Miller led to his being appointed to the American Association of Physics Teachers' Committee on Visual Aids. He also was the film editor for the *American Journal of Physics* (1969-1975). During the last 15 years of teaching, he was the course supervisor for the pre-professional undergraduate physics course sequence and also served in the tutor room

Riley held numerous administrative positions. He was the director of a number of In-Service Institutes in Physics held at The Ohio State University (1960-1967, 1968-1973, 1978-1982). Sponsored by the National Science Foundation, the institutes were developed to improve the physics background of secondary school science teachers in central Ohio. He also directed several NSF-funded summer programs for teachers, including an eight-week Summer Institute for College Physics Teachers from across the United States (1963). After that Summer Institute, he was a consultant at a Summer Institute for Physics in India (1964). In 1965, Riley returned to India for six months and supervised seven OSU-related summer institutes. OSU granted him a leave-of-absence in March 1967 to serve as an NSF staff scientist in New Delhi, India until September 1968, when he returned to OSU and resumed his teaching career.

In the discipline of physics, he was a generalist with interest in all areas of physics. As a specialist, he worked in the areas of physics education, improving the way physics teachers, at all grade levels, teach physics. In professional associations he held memberships in the American Association for the Advancement of Science, the American Association of Physics Teachers, the American Association of University Professors, and the National Science Teachers Association. He was elected in membership to Sigma Xi.

Riley was an active member of the University Community Association and Indianola Forest Association. He served on the Campus Partners Safety Committee. A member of the University Baptist Church, he sang in the choir, served several terms on the boards of trustees and deacons, stewardship and finance committees, and as church clerk. He also served on the building committee that was responsible for rebuilding the church after it had been destroyed by fire. Throughout the years he devoted numerous hours to grounds upkeep, maintenance, and fund raising. At home, he took great pleasure in gardening.

Surviving Riley are a daughter, Norene Joanna Holmes (Thomas) of Lima, OH; a son, Jonathan Howard Riley (Oliva) of Columbus, OH; five grandchildren, Beverly, Katherine, and Ian Holmes, and Megan and David Riley; his late wife's siblings and their spouses; and cousins and nephews. He was preceded in death by his wife, Mary Clare (Greig) Riley, whom he married 27 August 1949. Also predeceasing him were his siblings (a sister and three brothers). A celebration of his life was held 14 January 2011 at University Baptist Church, Columbus, with Reverend Tommy Faris officiating. He was cremated and his ashes were spread. Memorial contributions may be made to University Baptist Church, 50 West Lane Avenue, Columbus, OH 43201; Heifer International, 1 World Avenue, Little Rock, AR 72202; or Neighborhood Services, Inc., 1950 North Fourth Street, Columbus, OH 43201.

--WILLIAM R. BURK with NORENE HOLMES  
and JONATHAN RILEY

### BENJAMIN SCHUSTER (1923 – 2012)

Benjamin Schuster, age 89, clinical professor and director of the Kettering Cardiovascular Institute at Wright State University in Dayton, OH, and founder of the Benjamin and



Marian Schuster Performing Arts Center, died 24 August 2012 in Dayton after a lengthy period of illness. He delivered lectures and mentored residents in the cardiovascular fellowship program until two months before his death. Cardiologist, medical pioneer, innovator, and philanthropist, Schuster left an impressive legacy. He joined The Ohio Academy of Science in 1966, affiliating with the section on medical sciences.

Although his membership lapsed for a number of years, Schuster rejoined the Academy in 2010.

Born 14 April 1923 in Milwaukee, WI, Benjamin Schuster was the son of Minnie (Nemanski) and Morris Schuster who were of Lithuanian descent. For a number of years young Schuster lived in the Milwaukee Jewish Orphans House. He graduated from West Division High School in Milwaukee (1941). He served in

the U.S. Army from 1942 to 1944. He attended the University of Pennsylvania and then the University of Wisconsin where he received a B.S. degree in medical science (1950) and an M.D. (1952). He received his general rotating intern training at Cincinnati General Hospital (1952-1953) and his residency in internal medicine at the University of Wisconsin Hospital (July 1953-December 31, 1955). He also was a trainee at the National Heart Institute, U.S. Public Health Service and a fellow in medicine at the University of Wisconsin Medical School (1956). Schuster specialized in interventional and clinical cardiology for cardiac disease diagnosis and treatment. His early professional positions were: staff research investigator and director of the Cardiopulmonary Center, Good Samaritan Hospital, Dayton, OH (October 1957-March 1965); and chief of clinical service and staff investigator, Cox Coronary Heart Institute, Dayton (March 1965-July 1968). He was director of the Cardiac Diagnostic and Interventional Laboratory, Kettering Memorial Hospital (July 1968-December 1999). Since 2000 he was the medical director of the Kettering Hospital Cardiovascular Institute, where he was responsible for the operation of the institute as well as coordinating cardiac education programs. Schuster also maintained a private cardiology practice in Dayton (1958-1999). He held concurrent faculty positions as an associate in medicine at the University of Indiana Medical Center (1964-1970) and a clinical professor in medicine at Wright State University (WSU) School of Medicine since 1975.

While studying at the University of Wisconsin, Schuster was elected to honorary medical societies: Phi Delta Epsilon and Alpha Omega Alpha. He was secretary of the WSU Foundation Board. Involved with the School of Professional Psychology since its origin, Schuster served as a member of the Community Advisory Board, in which he created the Benjamin and Marian Schuster Scholarship to help psychology students further their education. The Robert J. Kegerreis Society at Wright State University inducted the Schusters in recognition of their philanthropy. Charles Taylor, former dean of the College of Liberal Arts, noted that Schuster's "recognition of our achievements has led others to recognize the great contributions we are making to this community."

Schuster held memberships in the American Association for the Advancement of Science, the American Federation for Clinical Research, the American Heart Association (Councils on Circulation and Rheumatic Fever and Congenital Heart Defects), the American Medical Association, the American Society of Internal Medicine, the American Thoracic Society, the Montgomery County Medical Society, the National Association of Disability Examiners, and the National Rehabilitation Association. He was also active in a number of other organizations. He was a member of the editorial board of the periodical *Multiphasic Health* (1970-1971) and served as an international peer reviewer for the *Journal of Zhejiang University SCIENCE* since 2002.

Schuster was known for his philanthropy and his modesty. He and his wife, Marian Mayerson Schuster, gave millions of dollars to Dayton's performing arts community. Wright State University President David R. Hopkins remarked, "When we think of the long list of friends of this university, Dr. Benjamin Schuster is among those at the top... his generosity and wisdom have dramatically impacted three schools and colleges across the campus: the Boonshoft School of Medicine, the School of Professional Psychology and the College of Liberal Arts." Schuster and his wife were patrons of the university's creative arts programs. They attended the theater, concerts, dances and art exhibitions. They served as host committee co-chairs of the

first ArtsGala, an arts showcase that raised more than \$1.3 million in scholarships for Wright State students majoring in performing and fine arts. The Schusters were faithful attendees of the annual event in support of the students. "It was a natural thing to support Wright State's creative arts," said Benjamin Schuster. "The creative arts elevate the whole spirit of a community. There is an old adage that industry feeds the stomach, but the arts feed the heart and soul." In 2009 Schuster gave Wright State University the money to modernize the Creative Arts Center. Under his leadership the university spent \$4.2 million renovating the concert hall. The building is now named the Benjamin and Marian Schuster Hall. Schuster believed that "we teach by being a role model in life. If you give with passion, you will receive so much more in return."

When his colleagues asked Schuster to take a sumptuous office at the Kettering Medical Center, he instead chose a small office on the ground floor to be more accessible to staff and friends. Michael J. Brandel, vice president for clinical and cardiac services at Kettering Medical Center noted that Schuster was "very dedicated to make things better in an affirming way. He was one of the most engaging people you could have the privilege to meet. He interacted easily with others from all walks of life. He never cheated anyone with his smile." Reflecting further, Brandel called Schuster the epitome of "the American Dream."

Marian Schuster predeceased Benjamin Schuster in 2007. They had three children: Maria, Debra, and Karen. Family and friends held a memorial service for Benjamin Schuster on 27 August 2012. Daughter Maria Nissan of New York City and three of Schuster's six grandchildren (Schuster Tanger, Ben Nissan and Greg Nissan) spoke at the event held at Temple Israel. Two of Schuster's friends (Franklin Handel of Schuster Cardiology Associates and Robert Finley of Cincinnati) also spoke. Rabbi David Sofian officiated. Jennifer Chemest and Dayton Opera chorus director Jeffrey Powell performed music to accompany the 23<sup>rd</sup> Psalm in the Old Testament. Cellist Christina Colette and pianist Joshua Nemith of the Dayton Philharmonic Orchestra played composer Jules Massenet's Meditation. After the service family and friends gathered in the Winter Garden of the Benjamin and Marian Schuster Performing Arts Center. Schuster is buried in Cincinnati. Interested parties may consult two obituaries on file in the office of the OAS.

--CHRISTOPHER CUMO

### EDWARD GROESBECK VOSS (1929 – 2012)

Edward Groesbeck Voss, 82, Professor Emeritus of Ecology and Evolutionary Biology at The University of Michigan, Curator Emeritus of Vascular Plants at the University Herbarium, and a renowned teacher at the University of Michigan Biological Station, died 13 February 2012 at his home in Ann Arbor, MI. The cause of death resulted from a hemorrhagic stroke that he experienced in December 2011.



An expert on the Michigan flora and botanical nomenclature, Voss earned recognition for his botanical contributions. Among his awards and honors were a citation in Senate Resolution No. 286, State of Michigan, honoring publication of *Michigan Flora*,

Part I (Cranbrook Institute of Science, Bloomfield Hills, MI, 1972); the Henry Allan Gleason Award, The New York Botanical Garden, honoring publication of *Michigan Flora*, Part II (Ibid. 1986); Lifetime Achievement Award, Michigan Botanical Club (1998); and an honorary Sc.D. from Denison University (2003). Joining The Ohio Academy of Science in 1949, Voss affiliated with the section on plant sciences and became a life member in 1981. Although he did not hold an office in the Academy, he attended numerous annual meetings sponsored by the organization.

Born 22 February 1929 in Delaware, OH, Voss was the son of David O. and Katherine (Groesbeck) Voss. He spent his early years in Toledo, OH, receiving his diploma from Woodward High School (1946) and serving as valedictorian of his class. His childhood interest in natural history was nurtured at his family's cottage in Mackinaw City, MI, where he spent summers collecting plants, caterpillars, butterflies, and moths. His parents encouraged his interest in learning about the natural world. Voss earned a B.A. in biology with honors (1950) from Denison University. He subsequently entered graduate school at The University of Michigan where he earned an M.A. in biology (1951) and a Ph.D. in botany (1954). Under the direction of botanist Rogers McVaugh, Voss wrote his dissertation on "The Vascular Plants of Emmet and Cheboygan Counties, Michigan: Patterns and Problems in Geographic Affinities." His early professional experiences at UM were: graduate assistant in botany (1950-1951) and teaching fellow in botany (1951-1953). He was also a teaching assistant in systematic botany at the Michigan Biological Station (summers 1949, 1951, 1952, and 1953). He then held positions at UM as research associate, Botanical Gardens (summer 1954) and research assistant, Metabolism Research Laboratory, University Hospital (1954-1956), which was a civilian Selective Service assignment. Next he began his life-long career at his alma mater in Ann Arbor, teaching and conducting research in several capacities.

In the University of Michigan Herbarium, Voss served as a research associate (1956-1961) and a curator of vascular plants (1961-1996). Joining the faculty in the Department of Botany (later becoming part of the Department of Ecology and Evolutionary Biology), Voss advanced in the academic ranks: assistant professor (1960-1963), associate professor (1963-1969), professor (1969-1996); professor emeritus of botany and curator emeritus (beginning 1996).

Voss was a dedicated teacher. For 36 summers he taught Aquatic Flowering Plants, Taxonomy of Flowering Plants, Boreal Flora, and/or Field Botany of Northern Michigan at the UM Biological Station (1963-1974, 1976-1998, 2003). On the Ann Arbor campus he taught Aquatic Flowering Plants (1961-1993), a portion of lectures in Plant Biology (1974-1979), and Writing for Biologists (1987, 1988, 1990, 1992). He gave occasional seminar courses on such topics as grasses and sedges and also botanical nomenclature. Voss was an occasional guest lecturer in a variety of courses, including Systematic Botany, Geography of Michigan and Advanced Systematic Botany.

As a teacher, Voss became well known for his devotion to students. It has been reported elsewhere that "whether his students were undergraduate, graduate students, or dedicated amateurs, he shared his passion for botany with them with an equanimity of zeal." Ronald L. Stuckey, a longtime member and former president of the OAS, was Voss's first graduate student. (Alfred E. [Ernie] Schuyler, however, was Voss's first graduate student to receive a doctoral degree.) According to Stuckey, Voss was a great inspiration to him as well as a role model in teaching and research. Stuckey

admired Voss's writing skills, his accuracy, and his persistence in completing research projects.

Voss earned recognition as an outstanding botanist and naturalist. His research focused on the floristics of the vascular flora and vegetational history of the Great Lakes region. His lifelong research and field work culminated in the publication of *Michigan Flora: a guide to the identification and occurrence of the native and naturalized seed-plants of the State* issued in three parts (Ibid., Part I, 1972; II, 1985; and III, 1997). The flora is the foremost publication for identifying over 2,500 angiosperms native to Michigan. Voss and his colleague Anton A. Reznicek wrote *Field Manual of Michigan Flora*, a one-volume treatise that was released three days after Voss's death by the University of Michigan Press, Ann Arbor. The book is a condensation and updating (including the maps) of the three-volume *Michigan Flora*.

Serving the botanical community through a number of other endeavors, Voss founded and edited the first fifteen volumes of *The Michigan Botanist* and served on its editorial board from 1976 until his death. He was a contributor to botanical nomenclature, serving on several committees. He was vice rapporteur of the Bureau of Nomenclature at two International Botanical Congress meetings (XI<sup>th</sup>, Seattle, 1969 and XII<sup>th</sup>, Leningrad, 1975) and rapporteur at the XIII<sup>th</sup> IBC (Sydney, 1981). He served on the General Committee on Botanical Nomenclature (secretary, 1969-1981; vice-chair, 1987-1999; and chair (beginning 1999) and also on the Editorial Committee, International Code of Botanical Nomenclature (secretary, 1969-1981; chair, 1981-1987; member, 1987-1993).

In addition to his acclaim as a botanist, Voss was a knowledgeable lepidopterist. His coincident studies in vascular plants and Lepidoptera were apt, as he not only could identify them but also know which plants served as hosts for the larvae or nectar plants for the adults. He first developed an interest in butterflies and moths as a child. This pursuit progressed in subsequent years. While in high school, he sought out relevant literature such as reprints of Lepidoptera papers. Among the scientists with whom he corresponded was Arthur Ward Lindsey, a professor of zoology at Denison University and an international authority on the Hesperioidea (the Skippers). Voss's association with Lindsey no doubt played a role in his decision to attend Denison. In his freshman year Voss worked in Lindsey's lab where he mounted moths. There he mastered a number of skills in spreading, de-greasing, and making microscope preparations of Lepidoptera. While an undergraduate student, he joined the Lepidopterists' Society as a charter member in 1947. In the organization he became an active member, publishing articles in its *Journal* and *Newsletter*. His investigations and work with Lindsey culminated with a senior thesis "On the Classification on the Hesperioidea" that was published (*Ann. Entomol. Soc. Amer.* 45: 246-258. 1952).

Voss maintained a lifelong interest in Lepidoptera of northern Michigan and the Hesperioidea of the world. According to lepidopterist Brian Scholtens, Voss's investigations constitute one of the most complete regional surveys in North America. Through the years Voss made extensive collections of Lepidoptera that he preserved and stored in two large herbarium cabinets at his lakeside cottage in Mackinaw City. Voss willed this valuable research collection to the A.J. Cook Arthropod Research Collection, Department of Entomology, Michigan State University. The Voss collection consists of 6,001 Lepidoptera specimens represented by 33 families. Of these, the Hesperioidea consist of 924 specimens. There were an additional 381 specimens representing 15 additional

orders. The total donation consists of nearly 6,388 specimens. The donation is a fitting legacy in which Voss's knowledge, enthusiasm, and love of Lepidoptera will be shared with others.

Devoting a lifetime of research and field work to botany and Lepidoptera, Voss published extensively. His publications included 127 botanical papers, chapters, and books; 15 Lepidoptera papers; and 116 book reviews. Voss shared his knowledge and passion of plants and butterflies and moths with scientists and dedicated amateurs alike. It has been noted elsewhere that "his love for facts, minutiae and grammar made him a stickler and made him the best in his field." He was well-known for his puns and his sense of humor. One example of the latter is demonstrated in his description of oregano in *Michigan Flora*, (Pt. III, p. 162). In describing the plant's habitat, Voss remarked, "the chief habitat in Michigan is on Pizza."

Conservation was another field of interest in which Voss was keenly devoted. He was particularly known for his work in protecting the flora of Michigan and the Great lakes region. He served on the Technical Advisory Committee for Plants under the aegis of the Michigan Department of Natural Resources. His service included documenting the distribution of rare plants. Voss was an active member of numerous conservation and environmental organizations as noted below.

Voss held memberships in the American Institute of Biological Sciences, the American Society of Plant Taxonomists (editorial board, 1972-1975; editorial committee, *Systematic Botany Monographs*, 1990-1993), the Association for Tropical Lepidoptera (life member), the Historical Society of Michigan, the International Association for Plant Taxonomy (life member), the Lepidopterists' Society (charter member), the Linnean Society of London (Fellow), the Michigan Academy of Science, Arts, & Letters (life member), the Michigan Botanical Club, the Michigan Entomological Society (charter member; governing board, 1981-1984), and the Society for the History of Natural History. He also held memberships in over 25 local, regional or conservation and natural history organizations. Among them were The Nature Conservancy (life member; member, Science Advisory Committee and trustee, Michigan Chapter), the Sierra Club (life member), the Wilderness Society, the National Audubon Society, the Environmental Defense, the Little Traverse Conservancy (trustee), the Michigan Natural Areas Council, the Tip of the Mitt Watershed Council (Board of Technical Advisors), the Upper Peninsula Environmental Coalition, and the Wilderness Society (life member). He held memberships in the following honor societies: Phi Beta Kappa, Omicron Delta Kappa, Eta Sigma Phi, Sigma Xi, and Phi Kappa Phi.

It is difficult to encapsulate all of Ed Voss's major contributions to science in a brief paragraph. Certainly, his three volume *Michigan Flora* is a classic, and was used not only in Michigan, but by many botanists in surrounding States because of his original and very functional keys. *Michigan Flora* certainly raised the standards for flora treatments. The nearly 17,000 plant collections he made, the vast majority in Michigan, were an important element of his flora research, and will continue to be used by researchers into the future. Throughout the Great Lakes region, his very readable 1978 book *Botanical Beachcombers and Explorers: Pioneers of the 19th Century in the Upper Great Lakes (Contributions from the University of Michigan Herbarium, vol. 14)* provides a thorough historical backdrop to our knowledge of the flora. And one cannot downplay the several editions of the *International Code of Botanical Nomenclature* that benefitted from his logical mind and editorial expertise. Beyond his publications and research, field

courses taught over many years, especially at the University of Michigan Biological Station in the northern Lower Peninsula of Michigan had a great impact on many students; for some it was a life-changing experience. But perhaps his greatest contribution was to the generations of botanists whose science he improved by freely providing plant identifications, patiently offering nomenclatural advice, and providing detailed and often extensive editorial help, through either formal or informal reviews of their papers. During his long tenure as editor of the *Michigan Botanist*, many botanists in the Great Lakes region published their first papers as budding scientists under Ed Voss's careful editorial eye.

Voss, who remained single his entire life, is survived by his sister, Eleanor (Elly) Hendricks (Tom) of Dayton, OH; nephews, Andrew Stephen Hendricks of Tempe, AZ and James Edward Hendricks of Dayton, OH; and grandnephew Thomas Charles Hendricks of Brookville, OH. On 10 March 2012 two services honored Voss: a memorial service at First Baptist Church, Ann Arbor; a celebration of Voss's life and professional career at the University of Michigan Union. On 11 August 2012 a memorial event took place at Grass Bay Preserve of The Nature Conservancy, which the Michigan Nature Conservancy organized. A trail that was one of Voss's very favorite places was named in his honor. Voss was cremated and his ashes will be spread in some of his beloved places. Memorial contributions may be made to the University of Michigan Biological Station (2541 Chemistry Building, 930 North University Avenue, Ann Arbor, MI 48109-1055), The Nature Conservancy (4245 North Fairfax Drive, Suite 100, Arlington, VA 22203-1606), Little Traverse Conservancy (3264 Powell Road, Harbor Springs, MI 49740), First Baptist Church (517 East Washington Street, Ann Arbor, MI 48104), and/or Church of the Straits (307 N. Huron Street, Mackinaw City, MI 49701). A tribute publication (*Michigan Botanist* 52[1]: 1- 56. 2012) in memory of Edward Voss provides further insight into his life and contributions.

--WILLIAM R. BURK WITH ANTON A. REZNICEK

### PAUL VINCENT WEBSTER (1924 – 2012)

Paul Vincent Webster, age 88, retired high school biology teacher, died 27 July 2012 at Bryan Care and Rehabilitation Center, Bryan, OH, with his family at his side. In the U.S. Infantry he served in the European Theater (1942-1945). He received a Bronze Star for Bravery and a Purple Heart for his battle wounds. A longtime biology



teacher in Bryan City Schools, he received the Outstanding Biology Teacher Award for Ohio (1966). Webster joined The Ohio Academy of Science in 1960, affiliated with the section on science education (vice president, 1970-1971), was elected a Fellow (1967), and was accorded emeritus status (1980).

Born 4 January 1924 in Mechanicsburg, OH, Webster was the son of Rush and Grace (Stuckey) Webster. After receiving his diploma from Mechanicsburg High School (1942), he served in the military. He then entered The Ohio State University. According to archival records at OSU, he earned a B.S. in zoology (1949), a B.S. in education (1950), and an M.A. in education (1954). Under

the supervision of Arch O. Heck, Webster wrote his thesis on "Classroom Experiments Using the Motion Picture in Science."

In 1951 Webster began his nearly 30-year teaching career at Bryan City Schools, where he taught biology. Webster's enthusiasm and dedication in teaching and his love of the natural world touched the lives of thousands of students who took his biology course. He instilled and inspired an appreciation of nature and its beauty as well as a passion for learning. He gained respect as one of Bryan's favorite teachers. It is noted elsewhere that "he taught by example without being arrogant or judgmental." Tributes of his former students reveal a remarkable teacher who had a wonderful smile and greeted everyone with warmth. In the classroom he gave well-organized lectures and stimulated students with hands-on experiments. He mentored students to reach state science fairs. In 1961 Bryan High School had the largest Future Teachers of America Club in Ohio due in great part to Webster and his colleague, Mr. Johnson. Webster's love of animals and plants earned him the endearing nickname "bug coach." Many of Webster's students remember how he would end his class period: "Times up, I'm afraid."

Webster's teaching technique went beyond books and the classroom. He augmented the learning experience with such activities as the dissection of grasshoppers, frogs, and fetal pigs; visits to the Toledo Zoo; the collection and proper mounting of insects; and field trips. He led early morning field trips to the Beaver Creek Wildlife Area in the fall and Goll Woods in the spring. He and his students set out promptly at 6 A.M. and returned to school in time for the day's first class period. When the school day ended, Webster's classroom was the focal point for anyone who wanted to see his menagerie of animals. Among the fauna were rats, hamsters, guinea pigs, a great horned owl named Chop Chop who lived there for 16 years, and a white dove who flew around the room. He also had bottles of preserved animals, pinned butterflies and insects, and bones for students to study. According to former student Christopher Cullis, Webster's "classroom was the embodiment of what a biology classroom should be."

Webster's teaching extended beyond Ohio. At Morehead College in Kentucky, he taught at the National Science Foundation Summer Institute for Biology Teachers and co-directed the National Science Foundation Summer Institute for Secondary Science Students. Webster retired in 1979.

Webster also contributed to the improvement of the teaching of biology through his professional endeavors and leadership role in education. He was the author and photographer of six Ecology Film Strips that were also produced and distributed by Ward's Natural Science Establishment of Rochester, NY. He was president of the Bryan City Teachers Association and secretary-treasurer (1954-1960) and president (1961) of the National Association of Biology Teachers (NABT). As a staff member, he assisted with four Environmental Education Workshops sponsored by the Ohio Department of Education (1972-1973).

Besides his memberships in OAS and NABT, Webster held life memberships in the National Education Association, the National Science Teachers Association, and the Ohio Education Association. He also held memberships in a number of other organizations: the American Association for the Advancement of Science (fellow, 1973), the American Institute of Biological Sciences, the American Nature Study Society, the Sierra Club, and the National Audubon Society (president; member, Board of Directors and Educational Chairman of the Black Swamp Chapter). He was chosen for membership in Kappa Phi Kappa. He enjoyed photography and founded Webster Nature Photography. He provided three screen

multi-image nature programs, sold nature prints, and offered custom framing for works of art.

Beyond his teaching Webster was active in his community. A member of the First Presbyterian Church of Bryan, he served as an elder, was a former property chairman, and sang in the choir. He held several leadership roles: president, the Williams County Ohio State University Alumni Club; chairman, the Advisory Council of the Buckeye Area Health Education Committee; chairman, Williams County Health Planning Association of Northwest Ohio; and vice chairman, the Health Planning Association of Northwest Ohio. In the Bryan Rotary Club he was past president, *Newsletter* editor (beginning 1973) and a Paul Harris Fellow. Webster also served on the Ohio Advisory Council and By-laws Committee of the Ohio Regional Medical Program. Instrumental in establishing the Bryan Tree Commission, he served as its chairman since its formation. Through his efforts Bryan was designated a Tree City for a number of years. In 1990 he instituted the Bryan Rotary Memory Grove on County Road D, which includes over 100 trees. In 1997 he chaired Tree City Day that was attended by 200 delegates from 42 Tree Cities in northwest Ohio. Webster's efforts in promoting the planting of trees as well as other community contributions were recognized with honors. The Bryan Area Foundation presented Webster and his wife, M. June (Spence) Dally Webster, whom he married 8 June 1974, the Good Citizen Award. The Prairie Creek Tree Project planted trees in his honor.

Surviving Webster are his wife June; three children from June's previous marriage, Mark (Sandy) Dally of Bowling Green, OH, Dr. Craig (Terri) Dally of San Jose, CA, and Paige Miller of Bryan and her fiancé KC Potts of Batavia, IL.; eleven grandchildren, Elizabeth (Robert) Green, Margaret (Matt) Malanga, Suzanna (Phil) Schumacher and Mark Dally all of Bowling Green, OH, Rebecca (Trent) Moyer of Columbus, OH, Mary (Sean Stalter) Miller of Bryan, Marcia (Zach) Fisher of Bryan, Thomas Dally, David Dally, Michael Dally, and Sarah Dally, all of San Jose; two great-grandchildren, Graham and Nathan Malanga; one brother Frank (Marcy) Webster of Columbus; and brother-in-law, Jim Spence of British Columbia. He was predeceased by his parents and two sisters, Eva Mahan and Edith Lyttle. In the spirit of teaching, Paul Webster donated his body to The Ohio State University Division of Anatomy to be used to educate future physicians, nurses, and allied professionals. Memorial services were held 9 August 2012 at the First Presbyterian Church of Bryan with Pastor Barry Sweet officiating. Two hours prior to the services friends and relatives gathered. The Oberlin-Turnbull Funeral Home, Bryan, was in charge of arrangements. Memorial contributions may be made to the Bryan First Presbyterian Church, 506 Oxford Drive, Bryan, OH 43506 or the Prairie Creek Tree Project, c/o Bryan Rotary Foundation, Inc., P.O. 721, Bryan, OH 43506-0721.

--WILLIAM R. BURK

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