

MEMORIAL RESOLUTION**HAYDN H. MURRAY****(August 31, 1924 – February 4, 2015)**

Dr. Haydn H. Murray, world-renowned clay mineralogist and longtime Professor of Geology at Indiana University, died on February 4, 2015. He was born in Kewanee, Illinois, on August 31, 1924, to Ardis and Herbert Murray. He was preceded in death by his parents and his brother, Winston Murray. He attended a one-room school for eight years and graduated from Toulon High School third in his class. He was the state clarinet high school champion and was a three-letter athlete. He dated his high school sweetheart, Juanita Appenheimer, whom he met at their first high school dance.

Haydn attended the University of Minnesota before leaving to serve in the Army Corps of Engineers. He served in the South Pacific in New Guinea and the Philippines. He and Juanita were married in 1944, and they celebrated their 70th wedding anniversary in December 2014. Upon his return from serving his country, Haydn attended the University of Illinois, where he earned his Bachelor's, Master's and Ph.D. degrees in geology, specializing in clay mineralogy. Dr. Murray was fortunate to work with the late Professor Ralph Grim, who instilled in Haydn a love for clay minerals that continued throughout his life. Dr. Murray moved to Indiana in 1951, where he worked as a clay mineralogist for the Indiana Geological Survey and the Geology Department. He achieved the rank of Associate Professor, and left the University in 1957 to enter industry as director of research for Georgia Kaolin Company in New Jersey.

At the Georgia Kaolin Company, Dr. Murray held several positions, including vice president, chief operating officer, and finally executive vice president. When the owner of Georgia Kaolin died in 1973 and the company was sold, Haydn was asked to return to Indiana University as chairman of the Geology Department, a position he was happy to accept. He remained at Indiana University until he retired at age 70. Although professor emeritus and retired, Haydn continued to come to work almost every day, and he continued his numerous international activities until about 2012.

During his time at Indiana University, Dr. Murray received numerous awards, published 170 articles, obtained three patents, wrote the book, *Applied Clay Minerals*, and was a lead editor of the book *Kaolin Genesis and Utilization*. He consulted for many companies in fifty-four countries, so he and Juanita travelled the world extensively. He was asked by the National Research Council Office of International Affairs to be an expert consultant for the Aid for International Development (AID) Project in Egypt to evaluate bentonite clays. Between 1983 and 1986, he made several trips to Egypt, which resulted in a new industry to produce drilling muds and foundry clays for Egypt and other Middle Eastern countries.

Dr. Murray advised eighty-eight graduate students and was a member of an additional sixty thesis committees at Indiana University. He received the Lifetime Achievement Award from the Professional Geologists of Indiana, an honorary Doctor of Science degree from Indiana University in 2004, and the Alumni Achievement Award from the Department of Geology at the University of Illinois in 2004. Other important achievements included serving as president of the Clay Minerals Society, president of the International Association for the Study of Clays (AIPEA) from 1993 to 1997, president of the Ceramic Association of New Jersey, member of the Board of Directors for the University of Illinois Alumni Association, speaker of the year at the Indiana Academy of Science, the Distinguished Service Award at Indiana University, the President's Thomas Hart Benton Medal for Distinguished Service to Indiana University, the Indiana University Alumni Association Orwig Medal for Distinguished Service to Indiana University Athletics, and an Honorary Doctorate from the Universidad Nacional del Sur. Dr. Murray received the Marilyn and Sturges W. Bailey Distinguished Member Award from the Clay Minerals Society in 1980 and the Pioneer in Clay Science Lecturer award in 2009. Most notably, Dr. Murray was inducted into the National Academy of Engineers. He was also elected as the faculty representative for athletics to the Big Ten Conference and the NCAA, a position that he enjoyed very much.

During his lifetime, Haydn worked hard, had a great sense of humor, and was very considerate of others. His ability to connect with everyone he met or interacted with, from fishing guides, laborers, and peers to high-level foreign dignitaries, resulted in everyone

holding him in high esteem. In addition to traveling the world, often with his wife Juanita, he spent time with his family, enjoying golfing, reunions, card games, reading, fishing and hunting. During the late 1960's until the late 1980's, Haydn and Juanita spent as much time as they were able in St. Croix. In later years, he and Juanita spent winters in Bonita Springs, Florida.

He will be remembered with love by his wife Juanita; their three children, Steven Murray (Nancy) of Houston, Texas; Marilyn Elder (Andy) of Zionsville, Indiana; and Lisa Rotskoff (Peter) of Springfield, Illinois; and his grandchildren Samantha Murray, Mark Murray (Gretchen), Reed Elder, Blake Elder (Melissa), Case Elder, Grant Rotskoff; his great grandchildren, Haydn Murray, Zane Murray, and Madison Elder, and his many friends. In addition, Dr. Murray leaves behind a legacy of several generations of clay mineralogy students and collaborators.

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