

IN MEMORY OF CHARLES WITT MAYNARD



Professor Emeritus Charles W. Maynard left us on February 18, 1995, at the age of 68. He was a treasured member of the fusion research community and the Department of Nuclear Engineering and Engineering Physics at the University of Wisconsin (UW)-Madison. His family, friends, students, and coworkers will immensely miss his gentle nature and his unconditional support. They have known him as the finest in human nature and as an outstanding teacher, researcher, husband, and father. He loved nature, reading, hockey, fishing, and jazz music.

Dr. Maynard was born in Maynard, Arkansas on October 18, 1926. He served with distinction in the U.S. Navy in the Pacific Theater during World War II. He then earned a BS degree in electrical engineering at the University of Maryland in 1950. He joined Harvard University and received a PhD degree in applied physics in 1957. His thesis research was in solid-state physics.

Upon graduation, he joined the Bettis Plant of Westinghouse Electric Corporation in Pittsburgh as a senior scientist, where he did fundamental work in nuclear design methods. He particularly developed the concept of reciprocity in transport theory. He joined, as the second full-time member, the newly established nuclear engineering program at UW-Madison in 1961 and was instrumental in raising its stature to national and international prominence.

In the early 1970s, he helped initiate a study of the feasibility of fusion power plants. The team that resulted from this effort became the leading group worldwide in the 1970s and early 1980s. The team fostered other leading teams in other institutions and is still highly visible at UW-Madison. He was the director of the fusion program during its second year of existence. He was also the leading investigator, with primary interest in the blanket and magnet shield design, and particularly in the neutronics aspects of fusion reactor design for both magnetic and inertial confinement systems.

His research was both original and imaginative and encompassed various areas from radiation damage and neutronic database generation, to fuel management, variational methods, and Monte Carlo methods. His technical achievements included nearly 100 technical publications. He advised the first several department PhDs in the areas of radiation damage and fusion neutronics. In fact, students knew that his door was always open and sought him for

advice on some of the most difficult points in their research. He has thus contributed to practically all of the PhD degrees earned in the department during his tenure. These students left to assume prominent positions in industry, national laboratories, and universities worldwide. He served as department chairperson in 1967-68 and then as associate chairperson for several years, during which he played a leading role in setting standards of excellence and in attracting bright faculty and students.

Charley gained high recognition in professional circles and was a Fellow of the American Nuclear Society. He served as a consultant to several national laboratories and spent sabbaticals at Los Alamos National Laboratory and Sandia National Laboratories in Albuquerque and as a U.S. Department of Energy exchange scientist at the Kurchatov Institute of Atomic Energy in Moscow in 1976. He contributed his time to technical societies' committees and served on the National Engineering Accrediting Board.

Charley is survived by his wife, Joan (Mandel), his daughter, Elizabeth Schaefer, his son, Mark Maynard, and his mother, Mrs. Estelle Maynard. The family asks that anyone wishing to make memorial contributions to direct them to The Nature Conservancy, 333 W. Mifflin Street, Madison, Wisconsin 53719.

Charles Maynard's friends and coworkers will forever be grateful for his patience, kindness, empathy, thoughtfulness, and willingness to quietly help them to the fullest degree and without reservations. They will never forget his open office door for enriching intellectual discussions and his home's open door for barbecues, dinners, and even marriage parties.

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