

## *In Memoriam*

# *Joseph J. Martin*



Joseph J. Martin, professor of chemical engineering at the University of Michigan and associate director of its Institute of Science and Technology, died on December 13, 1982, just ten days before his 66th birthday.

Joe had been a member of the University of Michigan faculty since 1947, and in recognition of his many contributions and excellence in teaching was to have received the 1982 Outstanding Teacher of the Year Award from its College of Engineering. The award was presented to him posthumously, and was only the latest addition to a long list of honors, awards, and prizes given to Joe over the past 40 years for his work and contributions, primarily in the field of thermodynamics.

A native of Anita, Iowa, Joe received his BS from Iowa State University in 1939, his MS from the University of Rochester in 1944, and his DSc from Carnegie Mellon University in 1949. He was acting director of the Institute of Science and Technology at the University of Michigan from 1978 to 1981, founder and first chairman of the Association for Cooperation in Engineering, and former president of AIChE, ASEE, and the Engineers Joint Council.

It was through the Association for Cooperation in Engineering that Joe's goal of a unified voice for engineering came to fruition. A visible result of his efforts is this journal, *CEE*, which came into being during Joe's tenure in ASEE. He also served on the Engineers Council for Professional Development and was chairman of the Education and Accreditation Committee of the AIChE at the time of his death. He was the author of two books and more than 100 technical papers.

Joe's love and appreciation for thermodynamics was unwavering and he and his students devoted over four decades to obtaining precise thermodynamic data of substances so as to provide the testing ground for the "Holy Grail" of thermodynamics—a General Equation of State. Nearly a third of his more than 100 publications were re-

lated to this effort. The remaining two-thirds may have been overshadowed by his achievements in thermodynamics, but in their own right were significant landmarks in other disciplines. For example, recognition of Joe's pioneering work in radiation chemistry led to his election as chairman of the Division of Nuclear Chemistry and Technology of the American Chemical Society and also to the chairmanship of the Nuclear Engineering Division of the AIChE.

Joe's attitude toward his profession and his motivation for participation in society activities is best expressed in his own words:

We have an unusual collection of talent in our memberships, drawn from industry, government, and education, and are capable of directing it in a relevant manner for the best interests of the individual, the specific group, and the nation as a whole. Thus, a profession does not exist in a vacuum—but derives its meaning, value and goals through both its responsiveness to needs of society and its influence on the direction of society. Being an engineer carries with it a serious responsibility which must be met in a considered, thoughtful manner by the engineers who are developing the new technologies if these advances are to play a positive role in our society.

Joe's energies and activities were not, however, restricted to his scientific field. He was a longtime member of the Ann Arbor Housing Commission, having served from 1968 to 1978, and was an avid tennis player. A boyhood interest in the game led to his lifelong love of the sport and he played competitively for over 35 years. He won, among other titles, the "Ann Arbor Men's Singles: Over 40" title in 1978, and continued to play even after surgery replaced his right hip joint in 1981.

Survivors include his wife, Merrilyn (Terry); two daughters, Judy Lee Martin and Jacque Martin Downs; two sons, Joseph J. B. Martin and Jon T. F. Martin; two sisters, and two grandchildren. □