

Carmine M. Valente Distinguished Service Award

The AIUM's Board of Governors established the Carmine M. Valente Distinguished Service Award to memorialize and recognize an AIUM member whose long-standing contributions in the furtherance of the AIUM's mission reflect Dr Valente's focus on collaboration.

Frederick W. Kremkau, PhD, FACR, FAIMBE, FAIUM, FASA



Frederick W. Kremkau, PhD, FACR, FAIMBE, FAIUM, FASA, began his illustrious career in ultrasound with a bachelor of science in electrical engineering from Cornell University in 1963. That education enabled him to be responsible for sonar (pulse-echo sound and ultrasound used for submarine detection) as a lieutenant in the US Navy from 1963 to 1967.

After leaving the Navy, Dr Kremkau continued his education, earning his master of science, in 1969, and PhD, in 1972, each in electrical engineering from the University of Rochester. He then applied his knowledge and experience to be a research instructor at the Bowman Gray School of Medicine at Wake Forest University from 1972 to 1981. During his tenure there, Dr Kremkau cofounded the school's Center for Medical Ultrasound, which is still in use today (now called the Program for Medical

Ultrasound). In 1981, he then left Wake Forest to become an associate professor of diagnostic radiology at Yale University until 1985.

In 1985, Dr Kremkau returned to Wake Forest as professor and director of the Center for Medical Ultrasound and continues there today as professor of radiologic sciences. Since then, he has been an avid promoter of the safe and effective use of ultrasound in medicine, consulting at organizations, manufacturers, and the US Food and Drug Administration. Dr Kremkau has also shared his knowledge by serving on multiple editorial boards, giving presentations, and authoring a tremendous number of books, chapters within books, journal articles, and more.

All the while, Dr Kremkau has maintained memberships in a plethora of organizations, including the AIUM, which he joined in 1972. Soon after joining, he served as the chair of the Manufacturer's Committee (1974–1976), on the Board of Governors (1978–1982), and as chair of the Basic Science and Instrumentation Section (1979), which was just the beginning of his contributions to the AIUM. In 1981, as a result of those contributions, he won the AIUM's Presidential Recognition Award, which honors outstanding contributions and services to the AIUM and to the broader ultrasound community. Dr Kremkau continued on in the AIUM as a speaker at the Ultrasound First Forum (1992), host of the AIUM's Breast Summit (1997), a contributor to the obstetric and gynecologic (OB-GYN) Ultrasound Lecture Series, and AIUM president (1997–1999). He has since remained active as a codirector of the Advanced OB-GYN Ultrasound Seminar (for 35 years), as a speaker at various courses, and in AIUM committees and task forces.

In addition to the AIUM's Presidential Recognition Award, Dr Kremkau has also been awarded the Joseph H. Holmes Pioneer Award for Basic Science by the AIUM (1994), the Distinguished Alumni Award from the University of Rochester (1996), and the Institute of Electrical and Electronics Engineers Winston-Salem Section Outstanding Engineering Educator Award. He has also received honorary membership in the Society of Vascular Technology, the Spanish Association of Diagnostic Ultrasonography, and the Venezuelan Association of Ultrasound in Medicine, because of all he has contributed to the field. Dr Kremkau's continual efforts to learn more about ultrasound and ensure that it is used safely and effectively are truly worthy of the Carmine M. Valente Distinguished Service Award.