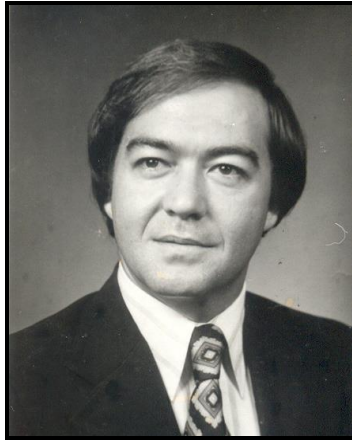


1987 Engineer of Distinction



Charles H. Fox, Jr.

B.S. Engineering Science, TTU, 1966

M.S. Nuclear Engineering, North Carolina State University, 1968

Ph.D. Nuclear Engineering, North Carolina State University, 1971

Assistant Manager of Nuclear Power
Tennessee Valley Authority
Chattanooga, Tennessee

Citation

Charles H. Fox, Jr. received his bachelor's degree in engineering science from Tennessee Technological University in 1966 where he was listed in *Who's Who in American Colleges and Universities*. After graduation he joined Union Carbide Corporation's Nuclear Division (UCCND) in Oak Ridge as a development engineer in the area of centrifuge technology.

He took a leave of absence to accept the National Defense Education Act Fellowship to perform graduate study in nuclear engineering at North Carolina State University where he received his master of science degree in 1968. He then returned to Union Carbide Corporation and was assigned as UCCND representative to the Atomic Energy Commission (AEC) Combined Operational Planning which was staffed by senior contractor representatives from each plant in the AEC production complex. His efforts were related to the liquid metal fast breeder reactor program.

He then accepted an AEC traineeship to return to North Carolina State University to pursue his doctorate in nuclear engineering. His dissertation, "Fission Product Diffusion in Alpha Thorium," was related to fuel studies in the HTGR (High Temperature Gas Cooled Reactor), the LWBR (Light Water Breeder Reactor), and the UMBR (Uranium Metal Breeder Reactor) whose fuel consisted of uranium and plutonium-rich phases in a thorium-rich matrix. His doctoral research was supported by a National Science Foundation grant.

In 1971 he joined the Atomic Energy Commission at Savannah River at Aiken, South Carolina, and completed his doctoral research in the laboratories of the SRP. In 1973 he was promoted to senior operation analyst at Oak Ridge Operations and Director of the Systems Management Division, Deputy Engineer Manager, and Engineer Manager on the \$8 billion Gas Centrifuge Enrichment Project. In 1981 he joined the Department of Energy's Senior Executive Service as Chief Engineer of the \$3.6 billion Clinch River Breeder Reactor Project. When the Clinch River Project was cancelled by Congress, he became Assistant

Manager for Project Management at the DOE's Savannah River Plant, where he was responsible for some 800 active construction projects valued at over \$3 billion.

In September 1986 he was selected by ex-Admiral Steven A. White, Manager of Nuclear Power for the Tennessee Valley Authority (TVA), to become his Assistant Manager of Nuclear Power with primary responsibility for the TVA's Office of Nuclear Power engineering and construction programs. He had begun his professional career with TVA in 1962 as an engineering cooperative student from Tennessee Tech.

Dr. Fox is a member of the American Nuclear Society. He is a charter member of the board of directors of the American Society of Engineering Management. He is an active member of the National Society of Professional Engineers (NSPE) and was the chairman of the 1979 NSPE National Convention's Energy Seminar Program. He served as General Chairman of the ninth annual WATtec energy convention in 1982, and Tennessee Tech was awarded a \$1,000 scholarship in his name by the WATtec Board of Directors. While at the Clinch River Project he was named chairman of the Large Scale Prototype Breeder Design Optimization Review Board and was head of the Clinch River/Monju (U.S. and Japanese) Working Group on LMFBR engineering and construction.

Dr. Fox is a member of Tau Beta Pi, Phi Kappa Phi, and Sigma Xi honorary associations. He has written numerous technical publications. He is a member of the Board of Engineering Advisors for the College of Engineering at Tennessee Tech. he is a registered professional engineer.



Charles Fox receives his Engineer of Distinction citation from Dean Leighton Sissom