

Professor Edward A. Friedman in a Nutshell



Edward A. Friedman is Professor Emeritus of Technology Management at Stevens Institute of Technology. His undergraduate and doctoral degrees in Physics are from MIT (1957) and Columbia University (1963), respectively.

As Dean of Stevens Institute of Technology (1973–1983) he led innovations on applications of computer and networking technologies in undergraduate education, which were studied and emulated by universities worldwide. Dr. Friedman was responsible for the pioneering requirement instituted in 1982 at Stevens

that all entering first-year students own a computer. During 1982–1983 Edward Friedman was actively involved in the activities of the Commission on Graduate Teacher Education for the New Jersey Department of Higher Education.

From 1988 through 2004, as Founding Director of the Stevens Center for Innovation in Engineering and Science Education (CIESE), Prof. Friedman pioneered in the use of Internet resources in teaching mathematics and science in primary and secondary schools. This center became prominent in applications of information technology in teaching and learning in pre-college schools implementing an inquiry-based educational approach in which mathematics and science topics reinforce each other.

Edward Friedman served as Project Director for the Committee for Economic Development Policy Analysis on Applications of Technology in K-12 Mathematics and Science Education, 1993–1995. In the period 1994–1997 he was Director of the National Science Foundation Project, Networking Infrastructure for Education Testbed within the Context of New Jersey Statewide Systemic Reform in Mathematics, Science and Technology Education. These effective strategies for implementing K-12 mathematics and science education received wide recognition for relating advanced technology directly to educational and curriculum objectives.

Edward Friedman's educational activities in international setting date from the early '70s. He played a key role in a U.S. government program to develop a college of engineering in Afghanistan, where he was director from 1970–1973. For his contributions Dr. Friedman received a national education medal from King Zaher Shah of Afghanistan. Edward Friedman won a Fulbright Fellowship to work with the Bulgarian Academy of Sciences in the fall of 1992. In the periods 2006–10 and 2011–12 Dr. Friedman acted, within the United Nations Development Program, as advisor to Computer Science Senior Design Teams on applications of IT in rural health care in projects in Sub-Saharan Africa.

Another important field of Dr. Friedman's interests is the growing threat of nuclear weapons. During the past several years, he developed new courses dealing with nuclear weapons in international affairs. One of his most recent activities in the field was his participation in the Federation of American Scientists Forum on the 30th Anniversary of the Chernobyl power plant explosion with the talk "The Dysfunctional Decisions of Chernobyl".

His awards and honors include a Pride of New Jersey Albert Einstein Medal for educational leadership (1992); Doctor of Science in Mathematics, Honoris Causa, Sofia University (2000). He is also a Foreign Fellow of the Union of Bulgarian Mathematicians.