



Laurence Miller

Professor of Nuclear
Engineering



Dr. Miller joined the faculty in 1976 and has made significant contributions to the academic and research programs in UTNE. Funding from a Radioactive Waste Management contract permitted renovations for laboratory space and for new laboratory equipment (1987), and he developed the Radiation Protection program begun in 1988 in collaboration with area professionals. Implementation of the Radiation Protection program involved the development of three new courses.

He has taught short courses on Radiological Assessment, Uncertainty Analysis, Medical Imaging, Internal Dosimetry, and Scintillation Materials. He has recently developed a course on the Nuclear Fuel Cycle in collaboration with ORNL personnel that has a focus on safeguards and is part of the UT Nuclear Security Science and Analysis graduate certificate program.

He has had several leadership positions with the local section of the American Nuclear Society, including the Chair for 1996-1997. He was the Technical Program Chair for the June 1998 National ANS meeting, served on the National Program Committee of the American Nuclear Society from 1999 through 2001, and was the General Chair for the Spectrum 2000 meeting. He chaired the Radiation Protection and Shielding Division of the American Nuclear Society (2001-2002), co-chaired the Scholarship Policy and Coordination Committee from 2003-2006, and chaired it from 2006-2009.

He was a Technical Programme Co-Chair of the ICRS-10 RPS 2004 International Meeting on Radiation Protection and Shielding held in Funchal, Madeira Island (Portugal), 2004.

He served as the Chairman of the University of Tennessee Radiation Safety Committee for 16 years and of the Environment Health and Safety Committee for about 10 years. He chaired the COE Promotion and Tenure Committee from 2001-2003, and from 2010-2011, and he currently serves on the University of Tennessee Faculty Senate.

His work on the development of internet-based reactor experiments for nuclear engineering students is reviewed in the January 2005 issue American Nuclear Society's national news magazine. His research on evaluation of Uncertainties of Advanced Nuclear Fuel Cycles facilitates decision making on the selection of reactors and fuel cycles, and his current research on Transformational Scintillation Materials for Neutron and Gamma Detectors and Education Integration, funded by the Department of Homeland Security, will enhance the national effort for safeguards.

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More information on the UT Institute for Nuclear Security is available at nuclear.utk.edu.