

Kim Kearfott



Professor Kim Kearfott, certified by both the ABHP and the NRRPT, is a Professor of Nuclear Engineering at the University of Michigan. She holds an Sc.D. degree from M.I.T. (nuclear engineering and medical physics) and an M.E. from the University of Virginia (nuclear reactor safety). She was a recipient of the National Science Foundation Presidential Young Investigator Award, the Society of Nuclear Medicine Tetalman Award, the Health Physics Society Elda Anderson Award, and the American Nuclear Society Women's Achievement Award.

Professor Kearfott has over 29 years of research and applied experience in health physics and related topics. Some of her work includes pioneering work in radon gas measurement and mitigation: she located and mitigated a home having an indoor air concentration of 12,000 pCi/L and was first to discover and mitigate elevated radon problems involving indoor air returns. Professor Kearfott is well known in the medical radiation community for her widely used internal dose assessments for Positron Emission Tomography (PET) and for her work designing several clinical PET facilities. She has substantial experience in the area of diagnostic radiology testing and facility design, especially in the areas of mammography, fluoroscopy, and planar X-ray. She has conducted several research projects in the field of personnel monitoring and was responsible for the development of the first system for positionally sensitive TLD plate imaging, a new mixed radiation field dosimeter approach, and the first designs of inexpensive, spectroscopic-capable passive dosimeters. This is in addition to many practical contributions to the field of external dosimetry and internal dose assessment. More than 195 graduate and undergraduate students have participated directly in her work since 1984, resulting in more than 300 publications. An experienced teacher and communicator, Prof. Kearfott has been responsible for more than 300 talks, 48 undergraduate and graduate courses, and 22 short courses. She also holds several patents on radiation detection methods and detectors.

Professor Kearfott has held positions on the Board of Directors of both the Health Physics Society and the American Nuclear Society. She also served on NCRP Scientific Subcommittee 57 (Dosimetry and Metabolism of Radionuclides), NRC's Enhanced Participatory Rulemaking Workshop on Radiological Controls for Decommissioning, EPA's Subcommittee on Radiation Cleanup Standards of the National Advisory Council for Environmental Policy and Technology, U. S. Transuranium and Uranium Registries (USTUR), and numerous Human Subjects Research, Animal Research, and Radiation Policy committees. She has been a consultant to the NRC's Advisory Committee on Nuclear Wastes on low level radiation health effects, as well as performed a variety of applied health physics tasks for numerous medical and industrial radiation users (particularly in the area of shielding and facility design and instrument evaluation).

