

CURRICULUM VITAE

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EDUCATION:

B.A. 1964, Johns Hopkins University (Physics)
National Merit Scholarship, Phi Beta Kappa

Ph.D. 1970, Harvard University (Physics)
Concentration in particle physics and astrophysics

PROFESSIONAL EXPERIENCE:

EPA, 1985-present. Directs EPA's assessments of risks due to ionizing radiation, including work on environmental transport of radionuclides, internal dosimetry, health risk modeling, and uncertainty analysis. Currently serves as Director of Center for Science and Technology, which: reviews and integrates scientific information on environmental transport, epidemiology, and radiation biology, including that contained in RERF, NAS, NCRP, ICRP and UNSCEAR reports; presents analyses as written reports and oral briefings to higher management and to EPA's independent Radiation Advisory Committee; develops written documentation for analyses that serve as background justification for rule makings or other EPA activities (e.g., issuance of public guidance on radon). The Center also develops the work scope and provides technical oversight for grants or contracts with the NCRP, the NAS (BEIR reports), National laboratories, and private consulting companies.

Intra- and interagency work groups: Served as EPA's representative on Federal committee dealing with health related issues arising from Chernobyl accident. Represented EPA on Science Panel of interagency committee (CIRRPC) that coordinated radiation policy among Federal agencies. Served as Executive Secretary of CIRRPC Science Panel and as one of the six-member CIRRPC Executive Committee that set direction for CIRRPC. Represented the Radiation Office on work groups convened by the Drinking Water Office to develop standards (MCLs) for radon and other radionuclides in drinking water. Represents EPA on the Joint Coordinating Committee for Radiation Effects Research and the JCCRER Executive Committee, which coordinates U.S. sponsored studies of radiation health effects in Russia.

Served as an expert on committee established by the Nuclear Regulatory Commission (NRC) and the European Community (EC) to assess the uncertainties in the risks of cancer induction by ionizing radiation. Served on oversight group for a committee funded by the Department of Veteran's Affairs to estimate, for the purpose of judging compensation, the probability that cancers in radiation exposed individuals were due to their exposures. Served on the organizing committees for several conferences sponsored by the American Statistical Association and by the NCRP on the health risks from ionizing radiation. Invited participant at the "Wingspread" and "Airlie House" Conferences, meetings of scientists and regulators to examine the issue of the use of the linear, nonthreshold theory in radiation protection. Invited participant at conference sponsored by the School of Public Health at Johns Hopkins University to discuss the use of epidemiology in framing public policy. Assisted in writing reports for the NRC/EC meeting and for the Wingspread and Hopkins conferences. Served on an NCRP Committee that drafted NCRP Report No. 160, "Ionizing Radiation Exposure of the Population of the United States". Currently a member of an NCRP committee examining the risk from lower energy photons and electrons, including medical X-rays.

U.S. Nuclear Regulatory Commission, 1982-5. Worked in the area of radiation risk assessment.

University of Rochester, 1970-82. Postdoctoral Fellow and Assistant Professor in the Department of radiation Biology and Biophysics. Research and teaching in areas of membrane biophysics and bioenergetics. Principal Investigator on NIH grants.

EXPERTISE:

Nuclear physics, radiation biology, biophysics, radiation risk assessment, epidemiology, carcinogenic mechanisms and modeling, and environmental regulation.

PUBLICATIONS:

Numerous journal articles and technical reports in physics, biophysics, and radiation risk assessment.

PROFESSIONAL SOCIETIES:

Radiation Research Society, Health Physics Society, American Association for the Advancement of Science, National Council on Radiation Protection and Measurements (NCRP).

AWARDS:

Phi Beta Kappa; Office of Radiation Programs Best Publication Award; EPA Bronze Medals for work on the assessment of risks from radon in homes and in drinking water; EPA Science Achievement Award (SAA) for paper on the deficiencies in the ICRP bone risk model; second SAA for paper examining the apparent negative correlation between radon levels and lung cancer rates; elected member of the National Council on Radiation Protection and Measurements (NCRP), a congressionally chartered organization which advises the federal government and other organizations regarding radiation protection issues.