



Jerrold Bushberg, M.S., Ph.D.

Clinical Interests

Jerrold Bushberg is an expert with more than 30 years of experience in radiation protection, medical physics and the biological effects and safety of ionizing and nonionizing radiation. He has advised government agencies and institutions nationally and internationally, including the U.S. Department of Homeland Security, the World Health Organization and the International Atomic Energy Agency.

Dr. Bushberg is certified by several national professional boards, with specific sub-specialty certification in nuclear medicine physics and radiation protection and currently serves on the American Board of Medical Physics. He is the author of numerous book chapters, including the Merck Manual chapter on management of radiation injury, and has several technology patents in the area of radiological emergency response.

Dr. Bushberg is currently Senior Vice-President and Chairman of the Board of the National Council on Radiation Protection Measurements (NCRP), a congressionally chartered scientific advisory organization. He served as chair of the NCRP Radiation Protection in Medicine advisory committee, as well as the International Committee on Electromagnetic Safety and the International Engineering in Medicine and Biology Society Committee on Man and Radiation (COMAR).

He serves as Director of Health Physics Programs for the Davis campus and the Health System and has responsibility for medical postgraduate education in medical physics, radiation protection, and radiation biology at UC Davis School of Medicine. He also serves on the faculty of the interdisciplinary Designated Emphasis in Nuclear Science program on the Davis campus. Dr. Bushberg is coauthor of the textbook “The Essential Physics of Medical Imaging,” 3rd ed., which is used extensively by radiology residency programs throughout the United States.

Title Clinical Professor

Director, Health Physics Programs

Specialty Health Physics, Medical Physics, Nuclear Medicine, Radiation Biology

Education M.S., Purdue University, West Lafayette, Indiana, 1980

Ph.D., Purdue University, West Lafayette, Indiana, 1982

B.S., UC Davis, Davis, California, 1975

Fellowships Yale University School of Medicine, New Haven, CT, 1979

Board Certifications American Board of Medical Physics- Medical Health Physics, 1991

American Board of Medical Physics-Nuclear Medicine Physics, 1991

American Board of Science in Nuclear Medicine-Radiation Protection and Radiation Biology, 1981



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Professional Memberships

American Association of Physicists in Medicine
Bioelectromagnetics Society
Health Physics Society
Radiation Research Society

Honors and Awards

Appointment to Board of Directors: American Board of Medical Physics, 2012
Elected Fellow of the American Association of Physicists in Medicine, 2012
Appointment as Sr. Vice-President and Chairman of the Board: National Council on Radiation Protection and Measurement (NCRP), 2011
Appointment to National Council on Radiation Protection Measurements (NCRP), 2002
University of California, Davis Health System Directors Award, 2000
Jenkins Research Award, Purdue University, Department of Bionucleonics, 1981
Sigma Xi, National Research Honorary, 1980
Phi Kappa Phi, National Academic Honorary, 1980

Select Recent Publications

Bushberg, JT, Kroger, LA, Hartman, M, Leidholdt, Jr, EM, Miller, K, Derlet, R, Wraa, C.
Nuclear/Radiological Terrorism: Emergency Department Management of Radiation Casualties,
Journal of Emergency Medicine, Vol. 32, No. 1, pp. 71–85, 2007.
Bassen H, Schaefer DJ, Zaremba L, Bushberg J, Ziskin M, Foster KR. IEEE Committee On Man And
Radiation (COMAR) technical information statement: Exposure of medical personnel to
electromagnetic fields from open magnetic resonance imaging systems, Health Phys. 2005 Dec;89
(6):684-689.

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