
Thomas H. Foster, Ph.D.

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Dr. Foster received his B.S. in Physics from Stevens Institute of Technology. Following two years at the General Electric Corporate Research and Development Center, where worked on magnetic resonance imaging and spectroscopy, he came to the University of Rochester. There he received his Ph.D. in Physics and joined the faculty as an Assistant Professor of Radiology. He is currently Professor of Imaging Sciences (formerly Radiology), of Biomedical Engineering, of Physics, of Optics, and of Oncology.

A wide range of preclinical and clinical problems in photodynamic therapy has been the emphasis of Dr. Foster's research for more than 20 years. His group has designed and built instrumentation that integrates the delivery of the PDT treatment light with reflectance and fluorescence spectroscopic evaluation of tumor response to therapy. Two such systems have been used in clinical trials in skin cancer patients. Other research projects have included studies of PDT sensitizer photobleaching and photoproduct formation *in vivo*, the use of light scattering for measurement of organelle morphology changes induced by photodynamic action in intact cells, fluorescence imaging of gene expression and of immune cell infiltration in tumors *in vivo*, optical property measurements of human cancer, and detailed mathematical modeling of photodynamic therapy dosimetry.

Dr. Foster has served on several national and international committees and has lectured extensively. On two occasions (1991, 2002), he received the Shu-Ren Lin Award for Excellence in Radiology Resident Teaching. In 2001, he was elected a Fellow of the American Physical Society. From 2001-2008, he was an Associate Editor of the journal *Photochemistry and Photobiology*, and from 2004-2008, he served as a member of the National Institutes of Health Radiation Therapeutics and Biology Study Section. He is currently a member of the Editorial Board of *Lasers in Surgery and Medicine* and the Board of Directors of the PanAmerican Photodynamic Therapy Association.