James Purdy, Ph.D.

Clinical Interests

Dr. Purdy's research is directed toward image-based 3-D treatment planning and conformal radiation therapy (3DCRT), including the development and implementation of intensitymodulated radiation therapy (IMRT) and image-guided radiation therapy (IGRT). He is also involved in the development of international standards for the dose and volume specifications used in prescribing, recording and reporting radiation therapy results. Dr. Purdy is particularly interested in radiation oncology informatics, including the development of systems that can be used to receive, share and analyze volumetric multi-modality imaging, treatment planning, and verification (ITPV) digital data, which can be linked with clinical outcome data. He is an active participant in the Advanced Technology Clinical Trials Quality Assurance Consortium (ATC) supported by the National Cancer Institute (NCI).

Title

Professor Emeritus

Specialty

Cancer, Radiation Oncology, Radiology Physics

Department

Radiation Oncology

Division

Radiation Oncology

Center/Program Affiliation

UC Davis Comprehensive Cancer Center

Address/Phone

UC Davis Comprehensive Cancer Center, 4501 X St. Sacramento, CA 95817
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Education

Ph.D., University of Texas, Austin, Austin, Texas, 1971
B.S., Lamar University, Beaumont, Texas, 1967
M.A., University of Texas, Austin, Texas, 1968

Board Certifications

American Board of Medical Physics, Radiation Oncology Physics, 2005
American Board of Radiology, Therapeutic Radiological Physics, 1976

Professional Memberships

American Association of Physicists in Medicine
American College of Medical Physics
American College of Radiology
American Society of Therapeutic Radiology and Oncology
Radiation Therapy Oncology Group

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James Purdy, Ph.D.

Honors and Awards

Fellow, inaugural group for American Society for Therapeutic Radiology and Oncology (ASTRO), 2006

The James A. Purdy Medical Physics Lecture was established by Washington University, Department of Radiation Oncology, 2003

American College of Radiology (ACR) Gold Medal, 2002

American Society for Therapeutic Radiology and Oncology (ASTRO) Gold Medal, 2000

American Association of Physicists in Medicine (AAPM) William D. Coolidge Award for Distinguished Contributions to Medical Physics, 1997

American College of Medical Physics (ACMP) Marvin M.D. Williams Professional Achievement Award, 1996

Fellow, American College of Radiology, 1991

Fellow, American College of Medical Physics, 1990

Fellow, American Association of Physicists in Medicine, 1989

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