

## J. Anthony Seibert, Ph.D.

### Clinical Interests

Dr. Seibert's role at the clinical level involves acceptance testing and quality control for radiological imaging equipment used in the departments of radiology, surgery, medicine and other sites at UC Davis Medical Center and UC Davis Health System.

An expert in digital radiography, Dr. Seibert specializes in using digital techniques and quantitative applications for digital x-ray fluorography, projection imaging, mammography, computed tomography and ultrasound/magnetic resonance imaging. Research efforts include assistance to the UC Davis Radiology Breast CT tomography project and several ongoing radiation dose awareness and monitoring projects with collaborators at other University of California Medical Centers.

As Associate Chair of Informatics, Dr. Seibert contributes to the department's implementation of electronic imaging, radiation dose monitoring, and image-processing capabilities for the UC Davis Health System. Other roles include writing specifications for new equipment, determining shielding specifications for x-ray room installations, educating physicians, radiology residents and graduate students in diagnostic imaging physics, and providing radiation dosimetry estimates for radiological examinations.

Dr. Seibert is co-author, along with other faculty in the department of the widely used physics text, "The Essential Physics of Medical Imaging," and is extensively involved in physics education and training. On the national scene, Dr. Seibert takes an active role in continuing professional development and education. Previous positions include past President of the Society for Imaging Informatics in Medicine (2004-2006), and past President of the American Association of Physicists in Medicine (2010-2012). Currently, Dr. Seibert serves as a member of the National Council on Radiation Protection and Measurements (2014-2018), is on the Fellowship Committee of the American College of Radiology (2016-2017), and is a Trustee of the American Board of Radiology, representing Diagnostic Medical Physics (2013-2017).

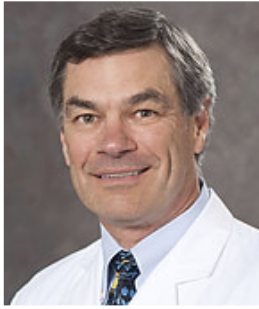
**Title** Professor

**Specialty** Medical Physics, [Radiology](#)

**Department** [Radiology](#)

**Division** Radiology Physics

**Education** Ph.D., Radiological Sciences, UC Irvine, Irvine CA 1983  
B.S., Biological Sciences, UC Irvine, Irvine CA 1976



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### Board Certifications

B.A., Chemistry, UC Irvine, Irvine CA 1977  
M.S., Radiological Sciences, UC Irvine, Irvine CA 1981  
American Board of Imaging Informatics - Certified Imaging Informatics Professional, 2007  
American Board of Radiology, Diagnostic Radiology, 1986  
American Board of Radiology, Therapeutic Radiological Physics, 1986

### Professional Memberships

American Association of Physicists in Medicine  
American Board of Imaging Informatics  
American Board of Radiology MOC  
American College of Radiology  
Radiological Society of North America  
Society for Imaging Informatics in Medicine

### Honors and Awards

American Board of Imaging Informatics - Chairman 2012, 2013, 2014  
American Association of Physicists in Medicine - President 2010, 2011, 2012  
Radiological Society of North America - Third Vice-President, 2008  
Society for Imaging Informatics in Medicine - Chairman 2004, 2005, 2006  
Society for Imaging Informatics in Medicine - Fellow, 2009  
American College of Radiology - Fellow, 2009  
American Association of Physicists in Medicine - Fellow, 1999

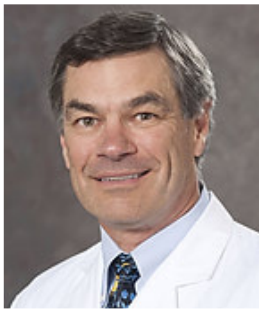
### Select Recent Publications

Hess CB, Thompson HM, Benedict SH, Seibert JA, Wong K, Vaughan AT, Chen AM. Exposure Risks Among Children Undergoing Radiation Therapy: Considerations in the Era of Image Guided Radiation Therapy. *Int J Radiat Oncol Biol Phys.* 2016 Apr 1;94(5):978-92.

Boone JM, Mahesh M, Gingold EL, Seibert JA. A Call for the Structured Physicist Report. *J Am Coll Radiol.* 2016 Mar;13(3):307-9.

Corwin MT, Seibert JA, Fananapazir G, Lamba R, Boone JM. JOURNAL CLUB: Quantification of Fetal Dose Reduction if Abdominal CT Is Limited to the Top of the Iliac Crests in Pregnant Patients With Trauma. *AJR Am J Roentgenol.* 2016 Apr;206(4):705-12.

Hernandez AM, Seibert JA, Boone JM. Breast dose in mammography is about 30% lower when



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realistic heterogeneous glandular distributions are considered. *Med Phys.* 2015 Nov;42(11):6337-48.

Nosratieh A, Hernandez A, Shen SZ, Yaffe MJ, Seibert JA, Boone JM. Mean glandular dose coefficients (D(g)N) for x-ray spectra used in contemporary breast imaging systems. *Phys Med Biol.* 2015 Sep 21;60(18):7179-90.

Smilowitz JB, Das IJ, Feygelman V, Fraass BA, Kry SF, Marshall IR, Mihailidis DN, Ouhib Z, Ritter T, Snyder MG, Fairbent L; AAPM Medical Physics Practice Guideline Task Group. AAPM Medical Physics Practice Guideline 5.a.: Commissioning and QA of Treatment Planning Dose Calculations - Megavoltage Photon and Electron Beams. *J Appl Clin Med Phys.* 2015 Sep 8;16(5):5768.

Gazi PM, Yang K, Burkett GW Jr, Aminololama-Shakeri S, Seibert JA, Boone JM. Evolution of spatial resolution in breast CT at UC Davis. *Med Phys.* 2015 Apr;42(4):1973-81.

Dodd GD 3rd, Allen B Jr, Birzniek D, Boland GW, Brink JA, Dreyer KJ, Khandheria P, Kruskal JB, Ricci P, Seibert JA, Zane R. Reengineering the radiology enterprise: a summary of the 2014 Intersociety Committee Summer Conference. *J Am Coll Radiol.* 2015 Mar;12(3):228-34.

Sanchez TR, Lee JS, Coulter KP, Seibert JA, Stein-Wexler R. CT of the chest in suspected child abuse using submillisievert radiation dose. *Pediatr Radiol.* 2015 Jul;45(7):1072-6.

Morin RL, Seibert JA, Boone JM. Radiation dose and safety: informatics standards and tools. *J Am Coll Radiol.* 2014 Dec;11(12 Pt B):1286-97.

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