

Curriculum Vitae
James W. Waters

PERSONAL HISTORY

Born in Brockton, MA on November 23, 1941
Married to Gitta Goll on Dec. 30, 1977; two children

DEGREES AWARDED

B. S. Boston College,	1962
M. S. University of Wisconsin,	1963
Ph.D. University of Wisconsin,	1968

RESEARCH AREAS

High energy physics, electron beam optics, production and transport of monochromatic X-rays

APPOINTMENTS:

Research Assistant, Boston College	1961
Physicist, United States Army Materials Technology Laboratory, Watertown, MA	1962-63
Research Associate, Vanderbilt University, Nashville, TN	1969-81
Visiting Scientist, Brookhaven National Laboratory, Upton, NY	1970
Staff Scientist, Max Planck Institute, Munich, Germany	1975-78
Research Associate Professor of Physics, Vanderbilt University, Nashville, TN	1981-

James Wayne Waters – Publications

Publications

- [1] M. H. Mendenhall, F. E. Carroll, J. W. Waters, and R. H. Traeger. A detector for low energy (few hundred eV-20 keV) X-rays in the presence of a high background of high energy. Submitted to *Nuclear Instruments and Methods A*, 1999.
- [2] F. E. Carroll, J. W. Waters, R. H. Traeger, M. H. Mendenhall, W. W. Clark, and C. A. Brau. Production of tunable, monochromatic, X-rays by the Vanderbilt free-electron laser. In *LASE'99*. SPIE, 1999.
- [3] Frank E. Carroll, Weiwei Andrews, James W. Waters, Ronald R. Price, David R. Pickens, Robert Willcott, Perry A. Tompkins, Carlton F. Roos, David Page, George Reed, Akira Ueda, Robert Bain, Paul Wang, and Mark Bassinger. Attenuation of monochromatic X-rays by normal and abnormal breast tissues. *Investigative Radiology*, 29:266–272, 1990.

- [4] W.W. Dong, C. A. Brau, J. W. Waters, P. A. Tompkins, F. E. Carroll, R. R. Price, D. R. Pickens, and C. F. Roos. Current status of the VU MFEL Compton X-ray program. *J. of X-Ray Sci. and Technol.*, 4:346–352, 1994.
- [5] Weiwei D. Andrews, Frank E. Carroll, James W. Waters, Charles A. Brau, Ronald R. Price, David R. Pickens, Perry A. Tompkins, and Carlton F. Roos. Development of the Vanderbilt Compton X-ray Facility. *Nucl. Instrum. & Methods A*, 318:189–196, 1994.
- [6] P.A. Tompkins, C.A. Brau, J.W. Waters, F. Carroll, D.R. Pickens, and R.R. Price. The Vanderbilt University Compton Scattering X- Ray experiment. In *1993 IEEE Particle Accelerator Conference Proceedings*, 1993.
- [7] P.A. Tompkins, W.D. Andrews, C.A. Brau, J.W. Waters, F.E. Carroll, D.R. Pickens, R.R. Price, and C.F. Roos. Development of the Vanderbilt X-ray facility. In *1992 SPIE International Symposium on Optical Applied Science and Engineering*, volume 72, page 1736. SPIE, 1992.
- [8] Frank E. Carroll, James W. Waters, Ronald R. Price, Charles A. Brau, Carlton F. Roos, Norman H. Tolk, David R. Pickens, Perry A. Tompkins, and W. Hoyt Stephens. Near-monochromatic X-ray beams produced by the free electron laser and Compton backscatter. *Investigative Radiology*, 25:465–471, 1990.