

Vitae

Dr. Susan M. White
Senior Researcher, Nuclear Reactor Laboratory
The Ohio State University
1298 Kinnear Road, Columbus, OH 43212
reactor@osu.edu

Education and Training:

Institution	Major/Area	Degree	Year Completed
Purdue University	Nuclear Engineering	B.S.	1996
Mass. Inst. of Tech.	Nuclear Engineering	M.S.	1998
Mass. Inst. of Tech.	Nuclear Engineering	Ph.D.	2001

Research and Professional Experience

- **Senior Researcher, OSU Nuclear Reactor Laboratory, 2018-Present**
Maintain senior reactor operator (SRO) license and participate in facility upgrades, repairs, and licensing activities. Participate in writing and revising laboratory procedures, plans and reports. Operate the reactor and perform radiation safety functions, facility surveillance activities, safety evaluations for proposed experiments, and other activities to support laboratory research.
- **Research Associate, OSU Nuclear Reactor Laboratory, 2011-2018**
Maintained senior reactor operator (SRO) license and participated in facility upgrades, repairs, and licensing activities. Participated in writing and revising laboratory procedures, plans and reports. Operated the reactor and performed radiation safety functions, facility surveillance activities, safety evaluations for proposed experiments, and other activities to support laboratory research.
- **Research Assistant, Laboratory for Accelerator Beam Applications, Massachusetts Institute of Technology, 1997-2001**
Investigated the biological effectiveness of the neutron and photon components of three epithermal neutron beams that were used or proposed for use in clinical boron neutron capture therapies. Participated in laboratory research activities and presented the results of original research at conferences. Operated the accelerator and participated in maintenance activities.

Publications:

1. H. Gao, S. Muralidharan, N. Pronin, M. R. Karim, S. M. White, T. Asel, G. Foster, S. Krishnamoorthy, S. Rajan, L. R. Cao, M. Higashiwaki, H. von Wenckstern, M. Grundmann, H. Zhao, D. C. Look, L. J. Brillson (2018). "Optical signatures of deep level defects in Ga₂O₃." *Applied Physics Letters*, 112:24, 242102. DOI: 10.1063/1.5026770.
2. L. R. Cao, J. Jarrell, A. C. Kauffman, S. M. White, K. R. Herminghuysen, D. Hardtmayer, J. Sanders, S. Li (2017). "A Radioactive Tracer Dilution Method to Determine the Mass of Molten Salt." *Journal of Radioanalytical and Nuclear Chemistry*, 314, 1-7. DOI: 10.1007/s10967-017-5417-5.

3. S. M. White, K. D. Held, M. R. Palmer, and J. C. Yanch (2001). "Biological dosimetry for epidermal neutron beams." *Radiation Research*, 155:6, 778-784. DOI: 10.1667/0033-7587.
4. A. A. Burlon, A. J. Kreiner, S. M. White, B. W. Blackburn, D. P. Gierga, and J. C. Yanch (2001). "In-phantom dosimetry for the $^{13}\text{C}(d,n)^{14}\text{N}$ reaction as a source for accelerator-based BNCT." *Medical Physics*, 28:5, 796-803. DOI: 10.1118/1.1368879.

Synergistic Activities:

1. Senior Researcher at the OSU Nuclear Reactor Laboratory
2. Licensed senior reactor operator (SRO) for OSU Research Reactor (OSURR)
3. Participation in OSURR facility modifications