UNEP SEMINAR: October 17th in WEB 2230 @ 4:35 pm
NUCL 5999; NUCL 6999; NUCL 7999

“Research on Radiation Detection and Measurement”

Dr. Haori Yang, Assistant Professor in Nuclear Engineering

Abstract

Dr. Yang will present his current and future research on radiation detection and measurement. Radiation detection and measurement is an important aspect of nuclear engineering. It finds wide applications in homeland security, nuclear safeguards, medical diagnosis and therapy. Dr. Yang will discuss his work for Department of Energy through the Nuclear Engineering University Program, on active interrogation techniques for nuclear safeguards. He will also present his other work on development of innovative radiation detectors and techniques, for example, chemical radiation sensors, implementation of spintronics for radiation sensing, and remote detection of special nuclear materials.

Bio

Dr. Haori Yang became a faculty member at the Utah Nuclear Engineering Program in January 2011. He teaches and mentors undergraduate and graduate students. His research areas include design and development of innovative radiation detectors, digital signal processing, and active interrogation methods for homeland security applications. Dr. Yang has his B. S. and M. S. in Engineering Physics from Tsinghua University, China. He received his M. S. and Ph.D. in Nuclear Engineering and Radiological Sciences from the University of Michigan, Ann Arbor. Prior to joining the University of Utah, Dr. Yang worked as a Research Scientist at Canberra Industries, an AREVA group company, where he was involved in research and development of innovative radiation detectors, nuclear waste assay systems and radiation monitoring systems.