



Physics Colloquium

**Thursday, October 24th, 2019
at 2:30 PM**

Pizza at 2:00 PM

**118 Gessner Hall
East Stroudsburg University**

“A Random Walk Through Experimental Physics”

Presented by

Dr. Robert W. Reed

Dr. Robert Reed has been a hands-on experimental physicist since his junior-senior honors project at Lafayette College. He has worked in research areas of lasers, low temperature physics, high-magnetic field studies, superconductivity, superfluid helium, Josephson tunneling, underwater sound propagation, submarine warfare, metal matrix composites, ultrasonic measurements for nondestructive testing and evaluation, space shuttle main engine turbo pump diagnostics, solid rocket motor nondestructive evaluation, in-process diagnostics for jet engine manufacturing, and development of patented instrumentation for the ultrasonic determination of particle size distributions in slurries. These research efforts resulted in many publications in both regular and classified journals and resulted in seven patents.

His talk will touch on bits of all of these areas with emphasis on the premise that a solid physics education prepared him to contribute solutions to many different kinds of challenging and interesting problems. He considers himself most fortunate to have had two kinds of very satisfying careers as a physics professor and an industrial physicist and consultant.