

**Dr. Ian S. Anderson,  
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Dr. Ian Anderson is Director of Graduate Education and University Partnerships programs at Oak Ridge National Laboratory. He was previously director of the Neutron Scattering Science Division at ORNL and head of the Neutron Optics Laboratory in Grenoble, France. Dr. Anderson earned degrees in physics from Birmingham University and natural sciences from Cambridge University. He can often be seen on WBIR-TV Knoxville as Dr. Know, sharing advancements of science at ORNL with viewers throughout eastern Tennessee.

**Presentation Title**

**Everything you wanted to know about neutrons - but were too scared to ask!**

**Abstract**

The Spallation Neutron Source (SNS) is the most recent major science facility to be made available to the international research community at Oak Ridge National Laboratory (ORNL).

This unique facility, complements the capabilities offered by the High Flux Isotope Reactor, and provides the research community with access to the most intense pulsed neutron beams in the world. What can neutrons do for you? Why did DOE spend \$1.4 billion to build the SNS? The answer: SNS provides scientists and engineers around the world with the opportunity to carry out research at the forefront of physics, chemistry, materials science, engineering, and biology, delving deep into the structure of materials and providing answers to questions that only neutrons can provide. In particular the pulsed intensity permits unprecedented measurements on materials in transitional states and of equilibrium. Highlights of research carried out at SNS will be given and opportunities for future research directions will be discussed.