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Graduate Education at Oak Ridge National Laboratory

In January 2010, the General Assembly of the State of Tennessee passed legislation authorizing The University of Tennessee to establish an academic unit of The University of Tennessee, Knoxville (UTK) for interdisciplinary research and graduate education in collaboration with Oak Ridge National Laboratory (ORNL). This academic unit, known as the Center for Interdisciplinary Research and Graduate Education (CIRE), brings together extensive and complementary resources at UTK and ORNL to increase science, technology, engineering, and mathematics (STEM) academic and research activities of national significance focused on energy-related science and engineering.

CIRE was recently renamed as the Bredesen Center for Interdisciplinary Research and Graduate Education and is in the second year of enrollment of exceptionally talented students. The program is now being expanded to other university partners. An overview of the program and opportunities for education in high performance computing will be given.

Biosketch

Dr. Ian Anderson is Director of the Graduate Education and University Partnerships programs at Oak Ridge National Laboratory. Before taking this position, Dr. Anderson was Associate Laboratory Director for Neutron Sciences overseeing the operation and scientific activity of the two most powerful neutron research facilities in the US, the Spallation Neutron Source (SNS) and the High Flux Isotope Reactor (HFIR).

Dr. Anderson joined the laboratory in March 2002 as director of the Experimental Facilities Division at the SNS, leading the construction of the target facility and neutron scattering instruments, and the development of the user program. After completion of the SNS project in 2006, Dr. Anderson became Director of the Neutron Scattering Science Division in the Neutron Sciences Directorate, with the responsibility of developing and managing the science programs at both the SNS and the High Flux Isotope Reactor.

Before arriving at SNS, Dr. Anderson was head of the Neutron Optics Laboratory at the Institut Laue-Langevin in Grenoble, France, where he led a team working on the development and production of optical elements for neutron beam instrumentation.

Throughout his career, Dr. Anderson has carried out active research programs in the field of Hydrogen in Metals and developed neutron-scattering techniques in major research facilities both in Europe and America. Dr. Anderson obtained a Ph.D. and a M.Sc. in physics from Birmingham University and B.A. and M.A. degrees in natural sciences from the Cambridge University, England.