

ICTAS NEW HORIZONS SEMINAR SERIES

Oak Ridge National Laboratory: Unlocking the Benefits of Nuclear Science and Technology

The Oak Ridge National Laboratory (ORNL) is a U.S. Department of Energy (DoE), multiprogram research and development (R&D) laboratory. ORNL performs world-leading R&D in a range of disciplines including neutron science, high-performance computing, advanced materials, nuclear science and engineering, biological and environmental sciences, energy efficiency, and global security. This seminar provides the history of ORNL's establishment and traces ORNL's evolution from a Manhattan Project facility to the world-class laboratory it is today. ORNL's current capabilities and the range of nuclear R&D programs performed there will be described .

ABOUT THE SPEAKER

Dr. Alan Icenhour became the Associate Laboratory Director (ALD) for the Nuclear Science and Engineering Directorate (NSED) at ORNL in February 2014. NSED operates state-of-the-art nuclear facilities and conducts technology development and application programs that impact a large range of fields from basic science to reactor development to national security. As ALD, Dr. Icenhour leads three research divisions (Fusion and Materials for Nuclear Systems, Nuclear Security and Isotope Technology, and Reactor and Nuclear Systems), one operating division (Nonreactor Nuclear Facilities), and the Consortium for Advanced Simulation of Light Water Reactors, the DoE's first energy innovation hub. NSED mission areas include R&D for both fission and fusion technologies; advanced modeling and simulation; stable and radioactive isotope R&D and production; research, development, and deployment of technologies to address nuclear security challenges globally; and safe and efficient operation of ORNL's nuclear facilities.

Since July 2008, Dr. Icenhour has served as director of three ORNL divisions: the Global Nuclear Security Technology Division, the Fuel Cycle and Isotopes Division, and most recently the Nuclear Security and Isotope Technology Division.



Before joining ORNL, Dr. Icenhour served as a commissioned officer in the U.S. Navy on a nuclear-powered submarine. After leaving active duty, he continued his service with the Navy as an active reservist, retiring in August 2010 at the rank of captain. He received his B.S. in nuclear engineering from North Carolina State University, and his M.S. and Ph.D. in nuclear engineering from the University of Tennessee. He is an adjunct professor of nuclear engineering at the University of Tennessee and an active member of the American Nuclear Society and the Institute for Nuclear Materials Management.

Thursday, November 20th, 2014

1-2 pm, 310 Kelly Hall



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