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OAK RIDGE NATIONAL LABORATORY (ORNL)

*COMPUTER SCIENCE & MATHEMATICS DIVISION*

*COMPUTATIONAL ENGINEERING & ENERGY SCIENCES GROUP LEADER*

CONSORTIUM FOR ADV. SIMULATION OF LIGHT WATER  
REACTORS (CASL)

*VIRTUAL REACTOR INTEGRATION FOCUS AREA LEAD*

John Turner is the Group Leader of the Computational Engineering & Energy Sciences Group (CEES) at Oak Ridge National Laboratory (ORNL). After completion of a Ph.D. in Nuclear Engineering from North Carolina State University, Dr. Turner joined Los Alamos National Laboratory (LANL) and worked in areas including radiation transport, metal casting simulation, and numerical methods. In 1997 John left LANL to join the R&D department at Blue Sky Studios, a computer animation company outside New York City, earning credits on the Academy Award-nominated feature film “Ice Age” as well as the Oscar-winning short animated film “Bunny”.

In 2001 John returned to LANL and became Group Leader of the Computational Physics Group (CCS-2), a group of over 70 Ph.D. scientists, students, and other staff conducting research in modeling & simulation of phenomena such as fluid dynamics & radiation transport for applications ranging from ocean & climate to nuclear weapons and nuclear energy systems.

In August of 2008, Dr. Turner moved to ORNL to form CEES, a new group focused on developing and applying advanced simulation tools to applications such as nuclear energy and electrical energy storage. Dr. Turner also leads the Virtual Reactor Integration focus area of the Consortium for Advanced Simulation of Light Water Reactors (CASL), a DOE Innovation Hub. Led by ORNL, CASL brings together national laboratories, universities, and industry to apply modeling and simulation to science and engineering challenges in nuclear energy.