

**SPEAKER / PRESENTATION INFORMATION**

<b>Name</b>	Phillip J. Finck, Ph.D.	<b>Phone</b>	208-526-9447
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<b>Email</b>	phillip.finck@inl.gov		
<b>Biography</b>	<ul style="list-style-type: none"> <li>• Director, AFCI Office of Technical Integration</li> <li>• INL Associate Laboratory Director for Nuclear Science &amp; Technology</li> <li>• Fellow of the American Nuclear Society</li> </ul> <p>Dr. Finck received his doctorate in nuclear engineering at MIT in 1982, and also holds an MBA from the University of Chicago. He was a mechanical engineer at Novatome, a reactor in France, from 1983 to 1986, and was involved in the safety and design of fast reactors, including France's Superphénix. In 1986, he joined the staff at Argonne National Laboratory (ANL) in neutronics methods development for the Integral Fast Reactor concept, and later for the New Production Reactor. In 1991, he became the lead for neutronics analyses for Experimental Breeder Reactor-II. In 1993, he joined the French Atomic Energy Commission, where he was head of the Reactor Physics Laboratory at the Cadarache Center, with activities in light-water reactors and liquid-metal reactors, criticality safety, fuel cycle physics and nuclear data. In 1995, he was elected to chair the European Nuclear Data Project. In 1997, he rejoined ANL, where he was Associate Director of the Technology Development Division. He has led activities in the Advanced Accelerator Applications program since 2000, and has been heavily involved in transforming the program from accelerator-based to reactor-based transmutation. In 2003, he was named ANL Deputy Associate Laboratory Director for Engineering Research. On April 11, 2006, he was named ANL Associate Laboratory Director for Applied Science and Technology, where he was responsible for coordination of all nuclear energy-related activities at Argonne, including Advanced Fuel Cycle Initiative and Generation-IV programs, and development of new initiatives. On October 19, 2006, Dr. Finck joined the Idaho National Laboratory (INL) and was named Associate Laboratory Director for Nuclear Science &amp; Technology. He is also the Director of the Advanced Fuel Cycle Initiative Technical Integration Office.</p>		
<b>Title</b>	<i>Future Direction of Nuclear Fuel Cycle Research in the United States</i>		
<b>Abstract</b>	<p>The future direction of nuclear fuel cycle research in the United States involves a renewed emphasis on evaluating broad sets of fuel cycle options and a shift to development of fundamental understanding of key fuel cycle processes. In order to implement this shift, investments in new analytical tools and research infrastructure will be required and increased coordination between government programs, universities, and industry will be necessary. The shift is also driving redefinition of research priorities related to advanced transmutation systems development, advanced nuclear fuel development, separations process development, waste forms development, and other elements of the U.S. Fuel Cycle Research and Development Program. These changes will be discussed in the context of broader domestic priorities associated with the need for reductions in carbon dioxide emissions and the need for increases in energy independence.</p>		