

SPEAKER / PRESENTATION INFORMATION

Name	Philip WHEATLEY	Phone	208-526-9348
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Biography	<p>Mr. Wheatley is currently the Division Manager for Environmental and Natural Resources at Idaho National Laboratory (INL). He is also a registered professional engineer who has practiced with increasing positions of responsibility over the past 33 years at INL. He has made significant contributions to technical programs in the areas of reactor safety analysis, low-level radioactive waste management, and most recently, spent nuclear fuel management. Mr. Wheatley has been responsible for a broad range of programs dealing with spent nuclear fuel and nuclear materials.</p> <p>Most recently, Mr. Wheatley was part of the Department of Energy (DOE) spent nuclear fuel program within DOE - Environmental Management. This includes ensuring that all needed analyses and information were available for the Yucca Mountain License Application.</p> <p>Mr. Wheatley currently directs the efforts of INL staff engaged in technology development for environmental remediation and nuclear materials management.</p>		
Title	<i>Criticality Modeling for the Safe Disposal of Spent Nuclear Fuel</i>		
Abstract	<p>The United States continues to debate the safe disposal of spent nuclear fuel and other fissile materials currently being stored by DOE and commercial nuclear utilities. It is likely that nuclear materials will be stored for at least the next 20 years as repository development continues. Longer storage times will increase the pressure to increase the storage density of materials to minimize storage costs. Increased storage density will also require increased accuracy when performing criticality calculations supporting transportation. In addition, the geologic media for disposal is once again in question as the United States investigates new disposal sites. DOE is also looking at alternatives for disposal of fissile materials. All of these developments will require criticality modeling efforts and benchmark data to gain acceptance by safety and regulatory agencies.</p>		