

2009 Summer Colloquium Series

Date & Place	Seminar	Speaker
<p>June 18, 2009 1:30 pm Bldg. 208/A138</p> <p><i>Ice cream social to follow!</i></p>	<p>Fast Reactor Physics and Isotopics How fast reactor physics differs from thermal reactor physics, and how the fast spectrum allows pursuit of various strategic objectives, e.g., resource extension, actinide burnup in lieu of disposal, weapons material disposition.</p>	 <p>Robert N. Hill Manager, Nuclear Systems Analysis Department</p>
<p>June 25, 2009 1:30 pm Bldg. 208/A138</p>	<p>Fast Reactor Safety Passive safety capabilities of metal-fuelled, sodium-cooled fast reactors and the EBR-II passive safety demonstration tests, and the modeling and simulation challenges of passive safety by design.</p>	 <p>Thomas Fanning Computational Scientist, Engineering Simulation & Safety Analysis Section</p>
<p>July 2, 2009 1:30 pm Bldg. 208/A138</p>	<p>Politics of Nuclear Energy Political aspects of US commercial nuclear energy during its first implementation (1970-1990), the progress made since then, and its prospects in the current political landscape.</p>	 <p>Mark Peters Deputy Associate Laboratory Director, Energy Sciences and Engineering</p>
<p>July 9, 2009 1:30 pm Bldg. 208/A138</p>	<p>Nuclear Proliferation: how it has happened Proliferation threat and response: A brief history of proliferation and the evolution of the nonproliferation regime.</p>	 <p>Pete Heine Manager, Technical Nonproliferation Policy Support Section</p>
<p>July 16, 2009 1:30 pm Bldg. 208/A138</p>	<p>Computational Fluid Dynamics (CFD) & Cluster Computing A sampling of major computational fluid dynamics analyses conducted in the NE Division, and how and why we use parallel computations on Linux clusters to do this work.</p>	 <p>Tanju Sofu Manager, Engineering Simulation and Safety Analysis Section</p>
<p>July 23, 2009 1:30 pm Bldg. 208/C234</p>	<p>Experimental Programs Defense in depth: Argonne experimental studies of molten core/structural material interactions and their impact on reactor safety.</p>	 <p>Mitch Farmer Manager, Engineering Development Labs Section</p>
<p>July 30, 2009 1:30 pm Bldg. 208/A138</p>	<p>Reactor Fuel Behavior What kinds of experiments and analyses are done to ensure that nuclear fuel will not fail and will always contain the radioactive fission products and actinides after irradiation?</p>	 <p>Gerard Hofman Sr. Metallurgical Engineer, Fuel Development and Qualification Section</p>