

**SPEAKER / PRESENTATION INFORMATION**

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<b>Biography</b>	<p>Dr. McKnight has more than 35 years experience in reactor analysis, critical experiment design and analysis, criticality safety analysis, code validation, sensitivity analysis, benchmark modeling, and nuclear data testing. He is Section Manager for Criticality Safety in the Nuclear Systems Analysis Department of the Nuclear Engineering Division at Argonne. He chaired the Data Validation Committee of the Cross Section Evaluation Working Group for over 20 years; is one of the U.S. representatives to the NEA/NSC Working Group on International Data Evaluation Cooperation; is a member of the NEA/NSC International Criticality Safety Benchmark Evaluation Project Working Group, and currently chairs the Nuclear Data Advisory Group for the U.S. Department of Energy Nuclear Criticality Safety Program.</p>		
<b>Title</b>	<i>How Covariance Data Helped Destroy Wall Street (and my Retirement Account) – And can it do the same for Criticality Safety?</i>		
<b>Abstract</b>	<p>The role of covariance data in the recent demise of the markets and the role of covariance data in current criticality safety practice will be discussed. The current state of the art for analytical methods, nuclear data, integral experiments, and V&amp;V for criticality safety will be reviewed with an emphasis on identifying the priority needs and future directions in each of these areas.</p>		