

Summer 2009, Atlanta, Georgia

Technical Sessions

Listed below are the sessions and papers that were presented at the meeting.

Advances in Nuclear Criticality Accident Excursion Analysis

[Criticality Accident Analysis: Does Your Facility's Accident Have a Justified Basis?](#), Thomas P. McLaughlin (*Consultant*)

[Is 12 "Rad in Air" an Appropriate Quantity for Excessive Dose?](#), Peter L. Angelo, Ken G. Veinot (*Y-12 NSC*)

[Criticality Accident Analysis for INL Shielded Hot Cells](#), Wade Scates (*INL*)

[Derivation of 2-D Thermoelastic Equations of Motion for a Finite Cylinder](#), Travis Grove, Robert Kimpland, William Myers (*LANL*)

Integration of Nuclear Criticality Safety into New Facility Design

[Criticality Safety Refinement at the MOX Fuel Fabrication Facility](#), James J. Bazley, Michael J. Shea, Robert G. Foster (*Shaw AREVA MOX Services, LLC*)

[Integrating Criticality Safety into Design of 233U Downblending Process](#), Karla R. Elam, Linda L. Gilpin (*SpectraTech Inc*), Billy W. Starnes (*Strata-G*)

[An Estimate of Minimum Critical Water Content for 10% Enriched UF₆ in 30-inch and 48-inch Diameter UF₆ Cylinders](#), Lon E. Paulson, James. F. Degolyer (*GE-Hitachi Nuclear Energy*)

[Integration of NCS into the CMRR Nuclear Facility](#), Douglas G. Bowen (*LANL*)

Data, Analysis, and Operations for Nuclear Criticality Safety-I

[Restart of the Sandia Pulsed Reactor Facility Critical Experiments](#), G. A. Harms, J. T. Ford, A. D. Barber (*SNL*)

[Analysis of Enriched Uranyl Nitrate in Nested Annular Tank Array](#), John /D. Bess, James D. Cleaver (*INL*)

[PARANAL: An Efficient Tool for Parametric Analysis of Criticality Safety](#), Qi Ao (*GE-Hitachi Nuclear Energy*)

Data, Analysis, and Operations for Nuclear Criticality Safety-II

[Use of List-Mode Data Acquisition Systems for Performing Benchmark Subcritical Neutron Measurements](#), William L. Myers, Gaetano J. Arnone, Sheila G. Melton (LANL)

[Analysis of a Reflected Alpha-Phase Plutonium Sphere](#), J. Hutchinson, W. Myers, R. Sanchez (LANL)

[Achieving Criticality Safety Defense-in-Depth Using Reliability Analysis with Augmented Correlation Analysis](#), Burton Rothleder (DOE)

[Methodology for Validating Minor Actinide Fission Cross Sections](#), C. van der Hoeven, E. Schneider (Univ of Texas, Austin)

[Investigation of Absorber Materials in Water-Reflected Systems](#), J. Hutchinson, R. Paternoster (LANL)

[Single Parameter Control: Does It Impact Safety?](#), J. J. Lichtenwalter (Y-12 NSC), Jeff Castor (Bechtel Jacobs), Clinton Gross (Paschal Solutions)

Nuclear Criticality Safety Staff and Operations Interface

[Development of the Criticality Safety Officer Program at Rocky Flats](#), Robert E. Wilson (DOE)

[How Criticality Safety Staff Operational Relationships Affect Inspection Focus at NRC Licensed Fuel Cycle Facilities](#), Dennis C. Morey, Thomas J. Marenchin (NRC)

[K-25/K-27 D&D Project Criticality Safety Officer Program](#), Roger W. Bartholomay, Thomas J. Rankin (Washington SMS), Samy Hanna (eProject)

[Criticality Safety Officer Training at the K-25/K-27 D&D Project](#), R. W. Carson, Jr. (NISYS), Michael J. Crouse (URS - Washington Division)

[Implementation of Criticality Controls in the KIS Facility at SRS](#), Marc L. Nadeau, Jagdish N. Joshi (Savannah River Site)

[Criticality Safety Officer Functions and Applications](#), Mark A. Joseph (B&W Y12)

[Nuclear Criticality Safety and Operations Interface at LLNL](#), John S. Pearson (LLNL)

[The LANL Criticality Safety Officer Program](#), Douglas G. Bowen (LANL)