Technical Sessions

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

**Data, Analysis, and Operations in Nuclear Criticality Safety - I, Tuesday AM**

- **Criticality Safety Design Challenges at the MOX Fuel Fabrication Facility**, Michael Joseph Shea, Amanda C. Bryson, Robert G. Foster (Shaw AREVA MOX Services, LLC)

- **Calculated Critical Masses of $^{242}$Am for Unreflected Spherical Homogeneous Water Moderated Systems**, Norman L. Pruvost, Donald G. Shirk (Retired), Charles T. Rombough (CTR Tech Svc)

- **Monte Carlo Simulation of Fuel Pellet Spills with Axial Inter-Pellet Moderation and Stochastic Geometry**, David A. Snopek, Qi Ao (GE Hitachi Nuclear)

- **Benchmark Evaluation of Uranium Metal Annuli and Cylinders with Beryllium Reflectors**, John D. Bess (INL)

- **Direct Perturbation Calculation for TSUNAMI Sensitivity Coefficient Validation**, Allison D. Barber (Univ of New Mexico), Donald E. Mueller (ORNL)

Validation of the SCALE Criticality Safety Codes and Data Using Reviewed Benchmark Models, Sedat Goluoglu (ORNL)

**Data, Analysis, and Operations in Nuclear Criticality Safety - II, Tuesday PM**

- **Application of Design-Basis Accident Analysis at Sellafield**, United Kingdom, James Richard Rendell (Sellafield Ltd)


- **Incorporating the Adjacent Area to the IEZ Within Nuclear Criticality Accident Emergency Planning Evaluations**, Peter L. Angelo (Y-12 NSC)

**Computational Advances in Criticality Safety Analysis, Tuesday PM**

- **Criticality Accident Alarm System Modeling Made Easy with SCALE 6.1**, Douglas E. Peplow, Lester M. Petrie (ORNL)

- **Reducing Errors: Developments at Sellafield to Aid the Criticality Assessor**, Dominic D. Winstanley, Paul Hulse (Sellafield Ltd)

- **Revisiting the "K-effective of the World" Problem**, Forrest B. Brown (LANL)

- **COG-Special Features of Interest to Criticality Safety Practitioners**, David P. Heinrichs, Richard M. Buck, Allan W. Krass, Edward M. Lent (LLNL)

- **Bias Assessment of $^{233}$U Systems Using a GLLS Methodology with SCALE TSURFER**, Bradley T. Rearden, Don Mueller (ORNL)
Hazard Analysis of Nuclear Criticality Safety Evaluations - Tutorial-I,  Wednesday AM

Bob Wilson (DOE)
Julie Johnston (LANL) and Tony Marth (LANL)
Chris Dean (Nuclear Safety Assoc)
Kevin Kimball (Isotek)

Hazard Analysis of Nuclear Criticality Safety Evaluations - Tutorial-II,  Wednesday PM

Ray Reed (URS SMS)
Todd Taylor (Bechtel BWXT Idaho)
Randy Shackelford (NFS)
Michael Shea (Shaw AREVA MOX Services)
Fred Winstanley (Sellafield)