

1:00 - 1:15 PM Opening by John Miller and Update from Patrick Frias of AU-30 NSR&D Program
1:15 - 1:45 PM - Alsharif, M. of CNS – NNSA Project – Simulation Based Computation of Dose
1:45 - 2:15 PM – Dr. Hubbard of SNL – AU-30 Project – Fire Contaminant Source and Viability of Testing Surrogate
2:15 - 2:45 PM - Clayton, R. of LANL – NNSA Project – Developed Hybrid Nitrogen Based Glovebox Inert Fire Suppression System
2:45 – 3:00 PM – Break
3:00 - 3:30 PM - Figueroa, V. of SNL – NNSA Project – Fire Testing of TRU Waste Containers
3:30 - 4:00 PM - Taleyarkhan, R. of Purdue – AU-30 Project – Novel, Low-Cost Alpha Spectrometer
4:00 – 4:30 PM – Dr. James Kelly, LLNL – Novel Mini-Tubular Ceramic (MTC) HEPA Filtration Media for Nuc. Facility Ventilation Systems

Patrick Frias:

AU-30 NSR&D Program ????

Dr. Mohamed Alsharif:

Ph.D., mechanical engineering university of Tennessee, PE in the state of Tennessee, Over 45 years in industry (including 25 years supporting DOE work), currently working for CNS Y-12 National Security Complex.

Dr. Joshua Hubbard:

received his B.S. and M.S. degrees from Kansas State University in Mechanical Engineering. Josh then received his Ph.D. from The University of Texas at Austin while studying multiphase flows. During his ten years at Sandia National Laboratories, he has performed a number of experimental and computational studies in the fields of aerosol physics and chemistry. His current projects include modeling the performance of aerosol nebulizers, simulating reacting gas flow thermochemistry and aerosol dynamics, pool fire simulation, and measurement of airborne release fractions from fires containing nuclear wastes.

R. Clayton:
LANL-

Victor G. Figueroa:

Working at Sandia National Laboratories for over fifteen years providing expertise in fire/thermal accident modeling and experimental expertise to the Structural and Thermal Analysis Group of Sandia's Nuclear Energy and Fuel Cycle Programs Center and other groups at Sandia. In addition to conducting fire/thermal computational analysis for severe accident scenarios in both spent nuclear fuel and weapon programs at Sandia, Victor has served as lead test engineer and primary investigator in numerous large scale experiments of severe fire accident environments, including what is believed to be the largest US regulatory-type, calorimeter fire test (representing a fully engulfed Type-B rail transport cask) ever conducted. He obtained his MS in Mechanical from the University of New Mexico in 2006.

Dr. Rusi Taleyarkhan:

Rusi Taleyarkhan received his B.Tech. in Mech. Engr. in 1977 from the Indian Institute of Technology followed with an Masters in Business Administration (MBA) and Ph.D in Nuclear Engineering by 1982, from Rensselaer Polytechnic Institute. He has since worked as Senior Engineer with Westinghouse Electric. Corp. through 1988 after which he spent over 17 years where he was Program Director and Distinguished R&D Staff at DOE's Oak Ridge National Laboratory conducting and leading energy, defense and energy related projects – both classified and unclassified. He joined Purdue University in 2003 as Professor of Nuclear Engineering where he teaches and conducts research. He also served as Chief Technology Officer of S/A Laboratories, LLC a venture capital startup dedicated towards commercialization of technologies resulting from his research group. He has published over 200 articles in the archival literatures, and has received over 25 invention awards besides numerous industry and govt. recognitions. He is past Editor of Nuclear Safety journal, Fellow of the American Nuclear Society and Honorary Fellow of the Russian Academy of Sciences.

Dr. James Kelly:
LLNL