

Dr. Allan S. Benjamin

PSAM12 Speaker Bio

Developing Safety Risk Margins for Unknown and Underappreciated Risks

I am the first author for this paper

Dr. Benjamin is an independent consultant for NASA Headquarters in the areas of risk management and system safety. He has 49 years of experience in the design and analysis of aerospace systems, nuclear reactor systems, nuclear weapon systems, ballistic missile systems, and military satellite systems. His fields of expertise include risk management, probabilistic risk assessment, uncertainty analysis, reliability analysis, aerodynamic analysis, and heat shield design. In addition to NASA, he has consulted for the Departments of Energy and Defense, the Nuclear Regulatory Commission, Los Alamos National Laboratories, the Missile Defense Agency, Pantex, Boeing, Lockheed Martin, Northrop Grumman, Orbital Sciences, and various smaller companies. Prior to consulting, he was a Distinguished Member of the Technical Staff at Sandia National Laboratories. His educational background includes an MS from Brown University and a PhD from UCLA specializing in heat and mass transfer. The paper he is presenting today was funded by NASA through Information Systems Laboratories, Inc.