

Dr. Jeffrey A. Smith, Ph.D. (Sandia National Laboratories). Dr. Smith is a Principal Member of the Technical Staff in the Computational Structural Mechanics & Applications department. He has been employed at Sandia for approximately 17 years. Prior to coming to Sandia he spent several years as a structural designer and attended graduate school at the University of Kansas. Both the Pressure Vessel Research Council and the Welding Research Council funded his graduate work to investigate constraint effects on the fracture behavior in structures. While at Sandia Dr. Smith has worked on a variety of programs related to nuclear power plant structures and the storage and transportation of spent nuclear fuel. Some examples of these programs are the Capacity of Degraded Containments, Seismic Behavior of Spent Fuel Storage Cask Systems, OECD Lower Head Failure Program, Structural Risk-Informed Assessment Containment Degradation Program, and Integrated Vulnerability Assessment of Nuclear Power Plants program. Dr. Smith spent a number of years involved in programs related to vulnerability issues associated with nuclear power plants, and their spent nuclear fuel waste storage/transport casks. This includes complex modeling and analysis issues related to potential aircraft impacts. In addition, Dr. Smith has served as the blast and impact task lead for the Radioisotope Power Source Launch Safety program and currently is involved in a number of design and analysis programs involving structural mechanics analyses using explicit dynamic analysis for a variety of impact scenarios.