

**B. Richard Bass**

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Dr. Bass has over 25 years experience in a leadership role for development and application of fracture mechanics technology (with emphasis on coordinated experimental/computational techniques) in nuclear technology programs sponsored by the U. S. Nuclear Regulatory Commission (NRC) at ORNL.

For the past seven years, has served as Program Manager for the Heavy Section Steel (HSST) Technology Program at ORNL, which has been under way since 1968 (~ 40 years) through NRC sponsorship; HSST has been the prime research and development program for integrity assessment of commercial nuclear reactor pressure vessels (RPVs) for the NRC.

Richard has coordinated and led technical work of researchers within ORNL, program subcontractors, and international research organizations to achieve research objectives of the NRC, including: (1) development, validation and applications of the probabilistic fracture mechanics computer code FAVOR, to generate a technical basis for revision of *Title 10 Code of Federal Regulations Pressurized Thermal Shock Rule (10CFR50.61)*; and (2) structural analyses and coordinated large-scale experimental program to assess residual life span for the nuclear RPV of the Davis-Besse Nuclear Power Plant at Toledo, OH.

On behalf of the NRC, Dr. Bass has managed a large number of international collaborations aimed at developing consensus technology for integrity assessment of commercial nuclear power plants. In particular, he has served as the U.S. representative to and Vice Chairman of the European Community network known as Network for Evaluation of Structural Components (NESC), and served as Project Manager for the NESC-IV Project.

He has over 200 technical publications, including articles in refereed journals, conference proceedings papers, reports, books, book chapters, and book editorships; and numerous presentations at professional conferences, international symposia, and NRC-sponsored meetings with nuclear industry organizations in U.S., Europe, and Asia. He has B. S., M. S., and Ph.D. degrees in Mechanical Engineering from Tulane University, New Orleans, LA., and has served as a Visiting Faculty at the University of Wales, Swansea, UK.