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Dr. Jennifer Gorczyca earned her Doctor of Engineering Degree in Mechanical Engineering from the University of Massachusetts Lowell (UML) in 2004. While at UML, she pursued research into the structural behavior of automotive parts and the potential effect of a side impact on the driver. This research included finite element crash simulations using both LS-DYNA and Radioss. While conducting this research, she obtained experience in the automotive industry as an intern at Ford Research Laboratories (Dearborn, MI). She continued collaborating with Ford Research Laboratories for her doctoral research in the area of composite materials when she developed a model to capture the nonlinear friction behavior between the tool and composite blank during the thermostamping of structural thermoplastic woven-fabric composites. The doctoral research included finite element analyses of the thermostamping process using LS-DYNA and ABAQUS. The completion of this research also included redesigning parts of the friction test apparatus and conducting experiments relevant to developing the friction model. As a Post-Doctoral Research Assistant, she was involved in an international benchmarking project to expand the knowledge base for woven-fabric polymer composites in the areas of numerical modeling and experimental methods. In November 2005, Dr. Jennifer Gorczyca joined the Computational and Statistical Sciences department at Savannah River National Laboratory (SRNL) as a structural analyst. She is currently a member of the ASME Boiler and Pressure Vessel *Subgroup on Containment Systems for Spent Fuel and High-Level Waste Transport Packagings* and the *Working Group on Design of Division 3 Containments*. Her projects at SRNL support the Savannah River Packaging Technology group and other Savannah River Site activities through static and dynamic finite element analyses. She is currently expanding her knowledge of numerical simulations to include thermal analyses.