

Research interests include the development and implementation of calculational methods for radiation transport with an emphasis in the area of nuclear criticality safety. Additional research activities include the development of cross-section processing methods for nuclear applications. Mike is one of the principal developers of the AMPX -2000 cross-section processing package that is used to generate cross-section libraries for the radiation transport codes at ORNL (e.g., KENO V.a, KENO-VI, CENTRM, etc.). In addition to the development activities, Mike has practical experience in performing code and cross-section validations for criticality safety applications with additional experience in the area of criticality safety analyses of fissile systems for nuclear fuel cycle applications (e.g., enrichment operations, packaging and transportation, etc.).