

ANS IHLRWM 2019 April 14-18, 2019 | Knoxville, TN International High-Level Radioactive Waste Management

CALL FOR PAPERS

SUBJECT CATEGORIES

Site Selection/Characterization and Assessment of Geological **Disposal Systems**

- Consent-versus Science-Based Siting
- Selection Criteria: Deep Borehole, Crystalline Rock, etc.
- · Site Characterization: In situ Property Measurements of Subsurface Properties
- · Post Closure Assessment: Definition, Preparation, Documentation of a Safety Case
- · Regulatory and Policy Issues: Licensing and Certification, Regulatory Review, Institutional Frameworks, QA/QC, Safety Margins

Storage & Transportation of Used Nuclear Fuel and **High-Level Waste**

- High Burn-up and Mixed Oxide Spent Nuclear Fuel
- · Dry and Wet Storage
- · Cask Integrity Analysis and Testing
- · Transportation and Storage (issues with regional versus centralized storage)
- Issues Associated with Direct Disposal of Storage Canisters

Barrier System Performance, Design, and Modeling

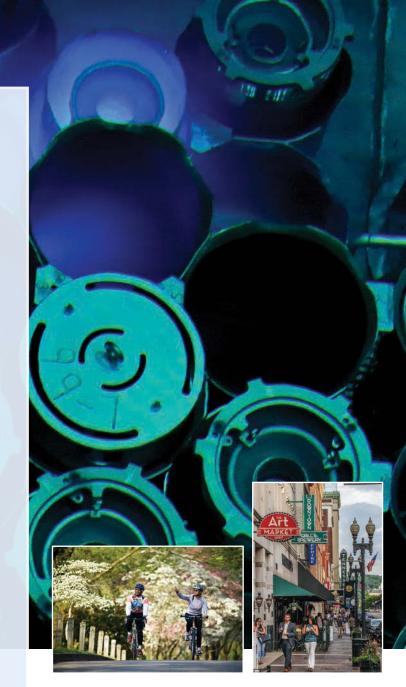
- · Waste Form Performance (Used Fuel, HLW glass, and Ceramics)
- Engineered Barrier Performance
- Modeling Near-field and Far-field Processes: (hydrologic, chemical, thermal, and mechanical processes)
- Interfaces between Barrier Subsystems
- Studies of Engineer Barrier Components in Underground Research Facilities

Biosphere Processes

- Natural Analogues
- Defining Generic and Site-Specific Biosphere Characteristics
- · Estimating Impact of Environment
- · Pathway Analysis and Dose Modeling
- Exposure Scenarios

ABSTRACT DEADLINE: Friday, October 5, 2018 Anticipated deadline extension of November 9

SUBMIT A PAPER: ans.org/meetings/ihlrwm



WONDERING WHAT TO DO IN KNOXVILLE?

visitknoxville.com/things-to-do outdoorknoxville.com

CONFERENCE WEBSITE: ihlrwm.ans.org

ANS Oak Ridge/Knoxville Section