



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