WM SYMPOSIA
EDUCATION & OPPORTUNITY IN RADWASTE MANAGEMENT
A NON-PROFIT ORGANIZATION

Track 1 - Crosscutting Policies and Programs

Computational Modeling of Deep Borehole for the Disposal of Disused Sealed Radioactive Sources

Mon, February 27 | EX Hall - Student Poster Lounge | Student Poster Competition

Part of:
040 Posters: Student Competition: Future Industry Leaders of Tomorrow (1.2a)

Info

Select a Track:
Track 1

Presentation Summary:
The quality of borehole repositories for disposal of disused sealed radioactive sources (DSRSs) varies significantly depending on their characteristics and the drilling site's physical properties. Although complex systems, a complete coupled computational model which describes the evolution of borehole facilities' performance, safety, and integrity is achievable by implementing current literature descriptions of natural processes and events to 3D real-time visual and interactive media. Game engines provide a practical and robust method of visualizing data in a dynamic sandbox environment, which hastens analysis and creates an effective way to detect failures, leakages, and other impacts on the biosphere.

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