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

Track 1 - Crosscutting Policies and Programs

Atmospheric Dispersion of Radionuclides from Mining Tailings Piles

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

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Track 1

Presentation Summary:
The extraction of various minerals essential for industry and agriculture is associated with the extraction of radionuclides from the radioactive decay chains of thorium and uranium. Therefore, it cannot be ignored that radionuclides from tailings piles can be dispersed.

Thus, a tool for calculating the dispersion and deposition of radionuclides suspended in the atmosphere from mining sites is being made utilizing satellite wind data and evolutionary neural networks. This tool will function by creating multiple layers of neural networks that correspond to each environment compartment, storing the calculated values in a database, and tracking changes over time.

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