







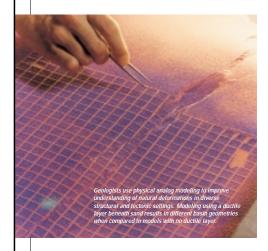


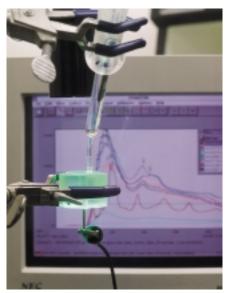
n 1987, the Center for Nuclear Waste Regulatory Analyses (CNWRA) was established at Southwest Research Institute™ to assist the Nuclear Regulatory Commission in regulating the public and worker health and safety aspects of the nation's first geological repository for high-level radioactive waste. This role has since expanded significantly, with the CNWRA providing comprehensive technical support to the Nuclear Regulatory Commission's regulatory role in defense waste management, commercial and federal site decommissioning, spent fuel storage and transportation, and uranium recovery programs.

Today, the CNWRA is an internationally recognized center of excellence in earth sciences and engineering, solving complex problems for government agencies and industry in the United States and abroad. As a federally funded research and development center, the CNWRA transfers, as appropriate, leading-edge technology developed under government contract to the commercial sector.



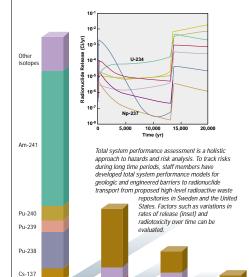
Housed in an 87,000-square-foot facility at Southwest Research Institute, the CNWRA offers sophisticated computational and visualization resources and extensive laboratories to solve diverse scientific and technical problems for government and industry.







Geological, hydrological, and biological data are converted to numerical form and merged with information on mammade features to allow site characteristics analysis. High-precision data integration supports robust CNWRA flow and transport interpretations.



1,000 yr

10,000 yr

100,000 yr

100 yı



Using laser Raman spectroscopy, CNWRA scientists study the fundamental mechanisms of corrosion under varying conditions that affect the long-term behavior of materials utilized in the manufacture of high-level radioactive waste containers.

Geoscientists study natural systems, such as the Nopal uranium-mining district in Mexico, to extrapolate possible transport of contaminants from engineered waste disposal sites.

