

V. Shestopalov, Iu. Shybetskyi  
*Scientific and Engineering Center for Radioecological Field Studies, National  
Academy of Sciences of Ukraine, Kyiv, Ukraine*

### **Geological Disposal of Radioactive Waste in Ukraine: History, Current State, Prospects**

The purpose of this paper is to analyze the state of geological repository development in Ukraine for the disposal of high-level waste and, possibly, of spent nuclear fuel. The data on state policy, activities and plans for disposal of radioactive waste, as well as on the results of scientific research aimed at the development of a geological repository are summarized. These data include siting, development of geological disposal concepts and safety assessment of selected concepts. Based on the analysis of the listed data, the main problems and further actions are identified.

*Keywords: radioactive waste, geological repository, high-level waste, disposal concepts.*