

## **Interaction between Fly Ash and Bottom Ash Mixture as a Sealing Layer of Waste Disposal Sites and Geomembranes HDPE – Katarzyna Zabielska-Adamska**

### **Summary**

Interface shear strength between geomembranes with various textures, which are used for carrying out the artificial sealing of waste disposal, and compacted fly ash/bottom ash mix, was determined in the paper. The tests were conducted in a classical direct shear apparatus, with the use of a modified cylindrical box. The box was equipped with an additional part, which enabled interaction testing between compacted waste and HDPE geomembrane. It was found that interface strength estimation does not depend on sample compaction. Only geomembrane structure has an effect on shear strength between waste sample and geomembrane. In the case of geomembranes with diverse structure greater values of interface friction angle are obtained, and for smooth geomembrane – greater values of adhesion