

6. Igor Winkler and Alla Choban. A role of public discussion in mitigation of environmental disasters caused by improper landfill management and operation. // in: “Engaging the public to fight the consequences of terrorism and disasters”. Ed.: I. Apostol, J. Mamasakhlisi, D. Subotta. – IOS Press. The Netherlands, 2015. – P. 66-73. (DOI: 10.3233/978-1-61499-493-0-66).

## A role of public discussion in mitigation of environmental disasters caused by improper landfill management and operation

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**Abstract.** An importance of wide involvement of NGO's and free public discussion into realization of the environmental projects is discussed in the context of the municipal wastes collection, sorting and utilization in Chernivtsi, Ukraine. A series of specific tasks to be solved by these institutions are outlined for various steps of the projects realizations. It is shown that public discussion is a vital step that can not be replaced by any other activity or event. Since the level of waste collection and utilization technologies in Ukraine is comparatively low, successful realization of such a project and wide involvement of the local population is expected as an encouraging example for next potential steps in the environment improvement and conservation in other regions of Ukraine and other countries.

**Keywords.** Municipal dumping area, environmental effect, landfill management, public control, wastes, activated sludge.

### Introduction

An amount of the material resources used regularly in the everyday life is constantly growing, causing the constant need in new financial and other resources, new specialized facilities and efforts to ensure the effective wastes management and dumping. The average amount of the wastes formed per capita in various countries is ranged from about 120 kg to 450-500 kg annually. The higher is urbanization of a country, the higher is the wastes amount formed by its inhabitants. In some aspects, lower amount of the wastes formed in the less urbanized and/or developed countries and areas can be just a result of the bad accounting when significant amounts of the waste materials formed in reality, in fact can slip off the official statistics [1].

Basically, there are four main technologies of the wastes utilization: plain dumping and burial (a); composting (b), incineration (c) and recycling (d). Technologies (a) and (b) require rather wide land areas, which can not be used for any other purpose, should be equipped with special installations protecting the environment from contamination with the waste degradation/wash off agents but that still exert strong influence on the significant areas around.

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