

**BIOREMEDIATION OF MTBE, BTEX AND PAH
BY APPROPRIATE BIOAUGMENTATION AGENTS**

**BIOREMEDIACE MTBE, BTEX A PAH
POMOCÍ VHODNÝCH BIOAUGMENTAČNÍCH PREPARÁTŮ**

Juraj Grigel, Kristina Turnvaldová, Martina Siglová, Jiří Mikeš

EPS, s.r.o. V Pastouškách 205, 686 04 Kunovice, Czech Republic, e-mail: eps@epssro.cz

Abstract:

The contribution in the form of a poster communication provides a graphically clear output from the four-year project dealing with the development of new bioaugmentation agents. Particular attention should be given to the steps that are result of the development of technical, operational and methodological support for different range of potential users. Specifically, the methodology for the optimization of CNP leads to optimization of costs. Method of live/dead staining is an effective means for finding vitality, variability and proliferation of biological agents involved in bioaugmentation agent production. Last but not least, the methodology in the optimization of the product and the related services in real applications are mentioned. In addition, recent contribution to a comprehensive overview of the mentioned contaminants is presented in the context of current knowledge on the use of biological agents for their elimination from the environment. In a way that creates a scope for discussion of other possibilities for improving and streamlining the concept bioremediačního engineering, including identification of weaknesses and threats that are strong factors influencing practical reliability.

Key words:

Bioaugmentation, BTEX, MTBE, PAH