

**REMOVAL OF ARSENIC  
FROM CONTAMINATED DILUTE AQUEOUS SOLUTIONS  
BY BIOSORPTION**

**M.X. LOUKIDOU, K.A. MATIS and A.I. ZOUBOULIS**

Division of Chemical Technology, Dept. of Chemistry  
Aristotle University, 54006 Thessaloniki, GREECE

**ABSTRACT**

Biosorption is being demonstrated to be a useful alternative to conventional treatment systems for the removal of toxic metals from wastewaters. The objective of this study was to examine the main aspects of a possible strategy for effective treatment and removal of pentavalent arsenic, applying dead cells of specific Gram-negative bacteria. Promising results were obtained in laboratory experiments leading to efficient metal removals.