

## Pipe Lines – External Corrosion

**Author(s):** Dan Babor

**Tomme:** LIV (LVIII) | **Fascicle:** 1 | 2008

**Pages:** 49-54

**Abstract text:**

Two areas of corrosion occur in pipe lines: corrosion from the medium carried inside the pipes; corrosion attack upon the outside of the pipes (underground corrosion. Electrolytic processes are also involved in underground corrosion. Here the moisture content of the soil acts as an electrolyte, and the ions required to conduct the current are supplied by water-soluble salts (chlorides, sulfates, etc.) present in the soil. The nature and amount of these soluble materials can vary within a wide range, which is seen from the varying electrical conductivity and pH (varies between 3 and 10). Therefore the characteristics of a soil will be an important factor in under-ground corrosion.

**Key Words:**

corrosion; electrolytic; pipe line.

[View full text PDF](#) 

### Author(s) Information

**Dan Babor**

Affiliation: „Gheorghe Asachi” Technical University, Jassy, Department of Concrete, Materials, Technology and Management.

Email: [danbabor@ce.tuiasi.ro](mailto:danbabor@ce.tuiasi.ro)

All documents with a  icon require [Adobe Acrobat](#) installed on your computer

Current Issue 

T. LVI (LX), Fasc. 3, 2010

[Browse](#)

[by Issues](#)

[by Authors](#)

[For Authors](#)

[Preparing Artworks](#)

[Manuscript Submission](#)

[Manuscript Template](#)

[Journals Name Abbreviation](#)

[Copyright Transfer Statement](#)

[Abstracted & Indexed](#)

The Bulletin of the Polytechnic Institute of Jassy, Construction, Architecture Section is indexed and abstracted in:

Index Copernicus, ProQuest, Ebsco, DOAJ, BASE, Scientific Commons, DRIVER.

WorldWideScience.org, getCITED, ResearchGATE, Ovid LinkSolver, Genamics Journalseek, Electronic Journals Library, WorldCat, Intute.

[Ranking](#)

The journal is ranked by the National University Research Council as a B+ quality journal (CNCSIS Code 44).

[Search in:](#)



