

**SOLUTION MINING
RESEARCH INSTITUTE**

3336 Lone Hill Lane
Encinitas, California 92024, USA

Telephone: 619-759-7532 ♦ Fax: 619-759-7542
www.solutionmining.org ♦ smri@solutionmining.org

Meeting Paper



**Corrosion Prevention and Monitoring
at the Manosque Facility
(29 Caverns for Liquid Hydrocarbons)**

by

**Patrick Perrot
Jean Michel Bertolero**

**Géostock
Rueil-Malmaison, France**

Spring 1999 Meeting
Las Vegas, Nevada, USA
11-14 April 1999

1. BACKGROUND

For more than 30 years, GEOSTOCK designs, constructs and operates underground storages for liquid, liquefied and gaseous hydrocarbons. Depending on the product to store and the local geological conditions, various techniques can be used:

- mined caverns for LPG, petroleum products or crude oil,
- aquifers or depleted fields for natural gas,
- salt caverns in salt domes or salt layers for all types of hydrocarbons.

GEOSTOCK incorporates, as early as from the conceptual design stage, the corrosion prevention as well as its mitigation and assessment during the future operation of the underground storage projects and their associated surface facilities.

When in operation, the facilities are periodically controlled in order to check that all corrosion phenomena are properly mitigated and, if needed, adjusted and corrected.

This presentation refers to the salt caverns and related surface facilities owned by GEOSSEL-MANOSQUE at MANOSQUE in the South of FRANCE. A description of this underground storage is given hereafter.