

About Underground Works State of Stress and Stability in Performing and Using Time

Costel Boariu¹

¹*IPTANA Filiala Iasi*

- ▶ Date of submission: (23.03.2000)
- ▶ PhD. Supervisor: NICOLAE UNGUREANU, Faculty of Civil Engineering, "Gh. Asachi" Technical University of Iasi, Romania
- ▶ President: PAULICA RAILEANU, Dean, Faculty of Civil Engineering, "Gh. Asachi" Technical University of Iasi, Romania
- ▶ Scientific Board:
 - MIRCEA IEREMIA, Faculty of Civil, Industrial and Agricultural Buildings, Technical University of Civil Engineering Bucharest, Romania
 - CORNEL TRAIAN BIA, Faculty of Civil Engineering, Technical University of Cluj Napoca, Romania
 - MIHAI BUDESCU, Faculty of Civil Engineering, "Gh. Asachi" Technical University of Iasi, Romania

Summary:

In underground working, the most important stage is temporary cavity reinforcing.

Reinforcing type selection depend on performer and geologist experience.

Selection is very relevant when rock material characteristics are at border between elastic and hard reinforcing exigence. So is important to have a kind of reinforcing with optimum response at rock material loading.

We made model experiments for various structures both elastic and until collapse.

The model experiments match theoretical results estimated with finite element method.

In this paper we indicate temporary lining with strain capability, made by precast elements. This temporary lining maybe used in final coating

Keywords: Reinforcing, underground, stability

