



## **New results of mineralogical researches in the salt mine Tusanj, Tuzla, Bosna and Herzegovina**

**G. Sijaric, J. C. Malgarejo, Dz. Omerovic, Dz. Bijedic**

1. Faculty of Science and Mathematics, Sarajevo University, Bosna and Herzegovina
2. Geological Faculty, University Barcelona, Spain
3. Salt mine, Tusanj Tuzla, Bosna and Herzegovina

There are numerous salt sources in the area of Bosna and Herzegovina. There was only one mine in Tuzla where salt was exploited by mining in the period from 1968 to 2000.

The latest results of the research on mineral paragenesis in the salt mine Tusanj, Tuzla are presented in this work. Samples for the research were gathered twice before the mine had been flooded by salted water. The samples were collected from the sites at level of 250 and 195 meters, which belong to salt-richest series. Positions of the researched samples are presented on the geological column of this salt deposit. Researches were carried out on thin sections by means of polarization microscope, x-ray analyses, powder method and electronic microprobe analysis. Results of the researches have shown a very interesting mineral paragenesis. Besides salt minerals, sulphids and mineral B were also found. These results together with previous ones enabled a new approach to the genesis of this deposit.

**Key words:** environment, formation of salt deposits, salt minerals, B minerals, sulphide paragenesis, genesis of mineral deposit.