

A SPECIAL ANNIVERSARY MOMENT FOR THE SUPERIOR MINING EDUCATION IN THE JIU VALLEY



Ph.D eng. DANIEL ANTONIE
*Director, S.D.M. Tg-Jiu
Oltenia Energetic Complex*

The anniversary of the University of Petrosani gives me the opportunity to highlight some of the forms of cooperation between university and Oltenia Energy Complex.

In Oltenia region is the largest and most active mining area in Romania of the present day, with five mining basins (Berbești - Valcea Basin, Rovinari Basin, Jilț Basin, Motru Basin, Mehedinti Basin). In the five mining basins of Oltenia are stationed more than 90% of the total reserves of lignite in Romania. Mining activity in the basin is organized into 11 units of coal pits, a service and maintenance unit, a mine and a branch operation, shipping, railways facility, with more than 12,500 employees in a total of 19,000 of Oltenia Energy Complex.

The beginnings of extracting coal in Oltenia area are immediately after 1915, followed by another stage between 1924 - 1929 (several thousand tons). "Serious" mining activity began about 60 years ago.

In developing operational concerns were several stages, the first stage is represented by the underground work, followed from 1950 by open pit exploitation, using technologies work Batch consisting of intermittent action of using excavators and automobile systems and then technological forefront excavation, transport and dump that was made up of modern equipment and operated the coal basin of Cicani coal pit from Rovinari mining basin, in March 1967. This line was composed of an SRs 400 excavator with BRS 1200, conveyors and a 2500.50 bucket wheel excavator. Remarkable results by operating in a continuous flow technology were a serious argument in the purchase of new equipment in the new open pit Cicani and another open pits at the time: Gârla and Tismana. In the next period, as a technical assistance and equipment from the TAKRAF company at Rosia coal pit (1973) was equipped with four type excavator SRs 2000 and two dumpers type 12500 with related bands at Lupoiaia coal pit (1976) was equipped with 5 type excavator SRs 1300, two dump trucks and related conveyors type 6300.95 ARS.

Through 30 years, starting with 1967, there were operated 29 bucket wheel excavators type ESRc 1400, 27 being built at U.M. Timișoara.



From that time until today the underground mining technique has developed continuously.

Until today, the mines and coal pits from the Oltenia mining basin achieved a production of over 1 billion tons of coal (840 million tons from the open pits and 215 million tons from underground extraction) and can provide over 30 million tons of lignite annually.

For these significant production contributed and contributes hundreds of specialists working in research, design and production.

With satisfaction we must say that most of these specialists are the **creation** of *Petroșani Superior Mining School*.

We are proud of what we have achieved so far and we are determined that in the future to do our duty to the extent the tasks that we have to face.

We owe a lot to *our becoming* to the University of Petroșani. In all the time of our existence we have worked successfully with specialized departments, with the managers of the faculties and university in achieving all the tasks that we have had.



We have used several forms of collaboration among which:

- productive practical studies of the students in our units (hundreds of students every year);
- research-design (over time were made hundreds of topics with experts of the University of Petroșani, the problems: mining methods and techniques work, physical and mechanical features of rocks and stability of open pit mining, construction and management of waste dumps; mechanization and automation of production processes, dewatering the aquifer formations, organizing productive environment and degraded lands in getting back into the economic cycle, rehabilitation and modernization of equipment, etc.);
- staff training in productive units (years ago was set up a training center at Săcelu, annually are organized the documentation and training courses where an outstanding contribution was brought by the teachers from University of Petroșani);
- many of our specialists have continued the university studies of master degree and doctorate. The most famous specialist from our units are the following personalities: I. Jiescu, E. Huidu, R. Mironovici, G. Baican, N. Bercea etc.
- another cooperation form was the organization of symposiums and conferences.

This anniversary gives me the opportunity, in the name of the miners and the specialists from the Oltenia area, to say a HAPPY ANNIVERSARY to students, professors and to all the employees of the University of Petroșani.

Good luck in everything you would like to do in future, giving high quality specialists to the Romanian industry, as many as possible.

