

Title of the session: Mine transport - mining plants in addition to mining minerals are primarily transport companies - examples of optimization

Date: 12.04.2019.

Location of organization of the thematic session – JSW S.A. KWK „Borynia-Zofiówka-Jastrzębie”
Ruch Borynia, NOT Room in the Training Centre

Time: 9:00 – 15:00

Supervisor of the session – Michał Kapała

Leader of the session – Dr hab. Eng. Piotr Kulinowski AGH

Description of the session:

The Mining Plant, in addition to actual mining, is a large scale transport company. To ensure the continuity of extraction, the effective working time of branches should be extended by ensuring quick and reliable transport of crew, spoil, materials, machinery and equipment to destinations. For such tasks, a properly designed transport system must be adapted, which plays a very important role in the technological process and very often determines its final efficiency. In addition, designing a transport system adapted to the prevailing conditions in the mine is one of the most important aspects related to work safety.

During the session "*Mining transport - mining plants in addition to mining minerals are primarily a transport company - examples of optimization*" will present presentations related to the application of modern solutions in the field of broadly understood transport of personnel, materials, machinery and equipment and spoil disposal

Agenda:

- 09:00 – 09:20 **JSW S.A.** , Project to improve transport efficiency in JSW S.A. mines. Stage I - How the assumptions of the transport efficiency improvement project function in reality - **Michał Kapała, Adam Zychma**
- 09:20 – 09:40 **PGG S.A.** – Methods for the selection of underground transport systems for materials – **Łukasz Bednarczyk**
- 09:40 – 10:00 **LW „Bogdanka” S.A.** – Organization of transport of people and materials in a selected exploitation field of Lubelski Węgiel "Bogdanka" S.A., **Michał Wilczewski**
- 10:00 – 10:20 **ITG KOMAG**, Presentation of the modular safety shaping system in underground transport STD (Safe Trans Design) – **dr inż. Jarosław Tokarczyk**
- 10:20 – 10:40 **Becker-Warkop Sp. z o.o.**, Becker Warkop's experience in electric transport systems - "electromobility in mining practice"– **Tomasz Budniok, Rafał Konsek, Wojciech Zasadni, Leszek Żyrek**
- 10:40 – 11:00 **JSW S.A.**, The project of improving the efficiency of transport in the JSW S.A mine in stage II in the "Borynia" Movement - optimization of transport logistics – **Dariusz Piżyk**
- 11:00 – 11:20 BREAK**
- 11:20 – 11:40 **JSW S.A.**, Improving the efficiency of production and drilling of galleries by expanding and modernizing the main haulage with the possibility of splitting the output to the level of 700 or

1050 and the preliminary downward selectivity of the product in JSW S.A. KWK "Budryk" –
Krzysztof Przontka

- 11:40 – 12:00 **AGH**, Verification of motor drive configuration and tape type using the QNK program –
dr hab. eng. Piotr Kulinowski
- 12:00 – 12:20 **PGG S.A.** – Experiences and innovations in the operation of high-capacity conveyor belts at
PGG S.A. Branch KWK ROW - Ruch Marcel" – **Jacek Kowalczyk**
- 12:20 – 12:40 **TAURON Wydobycie S.A.** – Technical and organizational aspects of the work of haulage lines
carried out in the automation system on the example of ZG Sobieski -Rafał Wilk, Jarosław
Jarosiński
- 12:40 – 13:00 **AGH** – Is it possible to safely ride people on conveyor belts on the spoil at a speed above
2,5 m/s? – **dr hab. inż. Piotr Kulinowski**
- 13:00 – 13:20 **JZR Sp. z o.o.** , The unification of complex haulage devices - **Jarosław Konsek**
- 13:30 – 14:30 **LUNCH BREAK**