

Title of the session: Mining 4.0 in favour of work safety improvement in the process of exploitation of deposits in circumstances of natural hazards

Date: 12.04.2019

Location of organization of the thematic session: ., KWK „Knurów-Szczygłowice” Ruch Knurów –
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Expected time of presentations: 10.00 -14.00

Supervisor of the session: Patrycjusz Polak, tel. +48 (32) 756 4320, e-mail: ppolak@jsw.pl

Leader of the session: Dr hab. Eng Stanisław Trenczek, professor of the Institute, Aerological Mining Section of KG PAN O / Katowice

Description of the session:

The session will cover issues related to modern management of occupational health and safety, ongoing monitoring of the safety status and threats occurring at workplaces, in particular natural hazards. Topics will also cover prevention issues in the field of health and safety, economic aspects of occupational safety, as well as activities undertaken after accidents at work in underground mining plants.

Agenda:

- 8.00 – 8.15 Exploitation of the 505 / 1łd-505/2 and 505/2 seam, the 30 longwall C3 lot in the "Borynia-Zofiówka-Jastrzębie" Coal Mine, Ruch Jastrzębie in the conditions of seismic activity - Łukasz Szlązak, Tomasz Chiliński, Mirosław Dzierżęga, Artur Słomian, KWK "Borynia-Zofiówka -Jastrzębie "Ruch Jastrzębie.
- 8.15 – 8.30 A comprehensive method of fire prevention in the field of deposit exploitation - Krzysztof Krzemień, KWK "Knurów-Szczygłowice".
- 8.30 – 8.45 Model of the emission of fire gases from the heating fragment of the deposit - Janusz Cygankiewicz, Central Mining Institute.
- 8.45 – 9.00 Model of the emission of fire gases from the heating fragment of the deposit - Janusz Cygankiewicz, Central Mining Institute.
- 9.00 – 9.15 The impact of concentration of extraction during the exploitation of highly methane seams on the release of methane into the environment of longwalls - Eugeniusz Krause, Zbigniew Lubosik, Central Mining Institute.
- 9.15 – 9.30 Big Data technologies in mining solutions on the example of FAMAC KWM methane emission control system - Łukasz Herb, Famur.
- 9.30 – 9.45 Coffee break
- 9.45 – 10.00 Costs of preventive work on natural hazards related to ventilation - Dariusz Musioł, The Silesian Technical University/ JSW S.A.

- 10.00 – 10.15 Recognition, minimization and control of threats in underground mining - Marl Gleadhill, Cool Mine Pty Ltd.
- 10.15 – 10.30 Proposal for estimating risky behaviors – Aneta Grodzicka, The Silesian Technical University.
- 10.30 – 10.45 Mining disasters - causes and repeatability - Zbigniew Rawicki, Czeslaw Koczyba, State Mining Authority.
- 10.45 – 11.00 The process of changes taking place in the methodology of rescue training organized by CSRG S.A. in the 21st century - Andrzej Plata, CSRG S.A.
- 11.00 – 11.15 Psychological aspects of informing families of mining accident casualties. Perspective of the person being notified and notifying - Katarzyna Cichy-Szczepańska, Monika Konwerska, CSRG S.A.
- 11.15 – 11.30 Coffee break
- 11.30 – 11.45 Application of the Mobile Emergency Extract Lift in practice. "LIS" as a tool to control and archive the surface condition of the shaft housing without an lifting device - Jan Syty (CSRG SA), Grzegorz Mendakiewicz (Cen-Rat Sp.
- 11.45 – 12.00 RemoteHeadControl - experience from operating tests of a remote control system with a heading machine - Tomasz Grzyśka, Elgór + Hansen.
- 12.00 – 12.15 Analysis of cooperation between powered roof supports and a rock mass based on the results of monitoring carried out as part of the PRASS III project - Marek Płonka, Sylwester Rajwa, Dariusz Jasiulek, Central Mining Institute.
- 12.15 – 12.30 Combating dusting in mining plants in terms of work safety - Zbigniew Kuczera, AGH University of Science and Technology.
- 12.30 – 12.45 Aktualny stan monitorowania zagrożeń pyłami szkodliwymi dla zdrowia w kopalniach węgla kamiennego w świetle aktualnych przepisów - Tomasz Pindel, Główny Instytut Górnictwa.
- 12.45 – 13.00 A new approach to the evaluation of the efficacy of respirator half masks developed within the ROCD project - Andrzej Drwięga, Krzysztof Lesiak, Ewa Hordyniak, ITG Komag.
- 13.00 – 13.30 Visiting the museum of the tradition of KWK "Knurów" mine
- 13.30 – 14.00 Lunch.