

SEG Student Chapter

Field trip Report 2022/2023

Our field trip this year took place in Poland during 25-27th of September. The main purpose was to visit the Cu-Ag Lubin mine in Lower Silesia, which belongs to KGHM. The trip was organized co-jointly with the participation of AGH Cracow and our Department and it was guided by Drs. Jaroslav Prsek and Wladyslaw Zygo (Department of Deposit and Mining Geology, AGH). Six of our Student Chapter students attended the activity, as well as Drs. Peter Kodera and Peter Sottnik.

The detailed plan was as follow:

Day one (25/09/2022): Departure from Bratislava (Slovakia) to Lubin (Poland) at 10:00 am, through Czech Republic. in this last city, the group checked-in at Hostel Baron during the afternoon.



The team stopping for lunch in Czech Republic

Day two (26/09/2022): Visit to the Cu-Ag Lubin Mine (owned by KGHM) between 6:30-12:00 am. The group descended ca. 950 m below surface to the main exploitation area. There, we were mobilized to the exploitation front, where we could take samples of the main sulphide mineralization as well as host rocks. In the mine, our members also witnessed how the ore is extracted and transported via conveyor belts to the floatation plant.

Between 12:30-14:30 pm, our group visited the main floatation plant at Lubin, where after a brief safety measure training we headed to see the main facilities. These consist in several crushers and grinders (to diminish the grain size), hydrocyclones, floatation cells and thickeners. The final output is a concentrate of 9-13 % sulfides that are transported to the smelters (Glogow and Legnica), also belonging to the same company.

The rest of the day was spent visiting Legnica, a small city with great mining history, which is located ca. 20 min from our accommodation.

Our group underground heading to the active area of the mine by car.



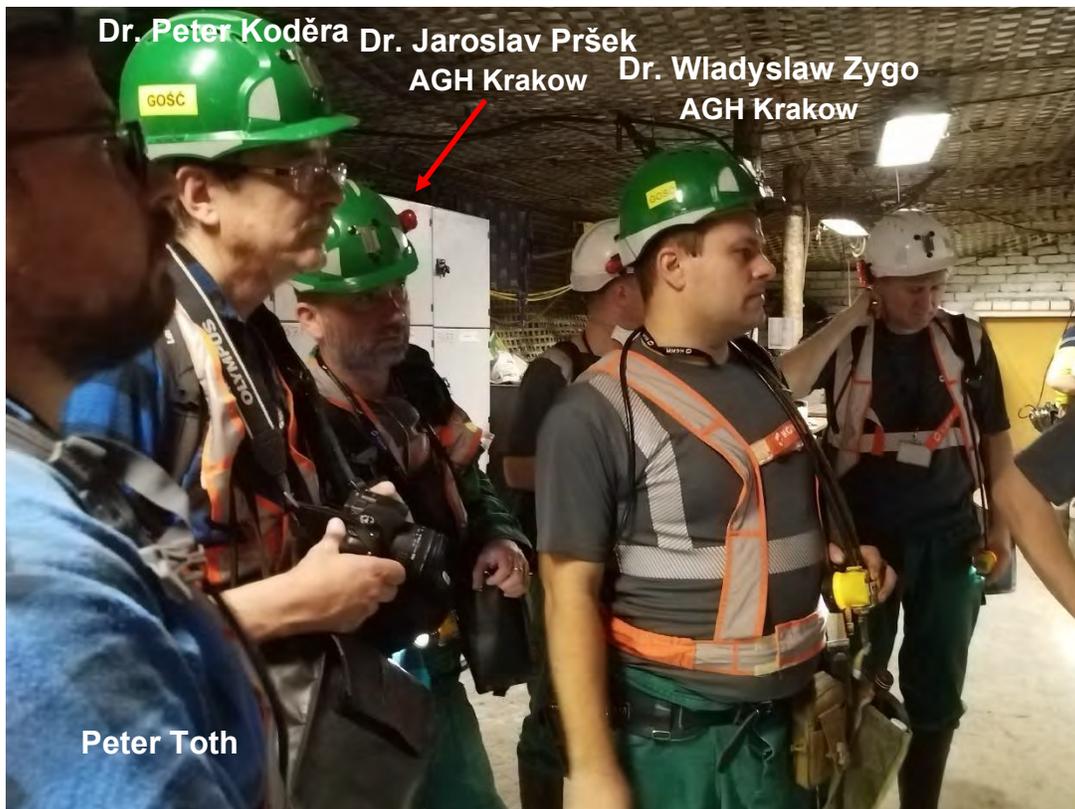
Dr. Jaroslav Pršek
AGH Krakow

Dr. Peter Šottnik

Matej Rybarik



SEG Student Chapter Bratislava inside Lubin Mine- At the top from left to right: Dr. Wladyslaw Zygo, Alexandra Molnarová, Diego Delgado, Dr. Peter Koděra, Peter Toth, Dr and Jaroslav Pršek. At the bottom, from left to right: Dr Peter Šottnik, Luca Reato and Matej Rybarik.



Our team receiving information on the mine activity inside the underground Lubin Mine

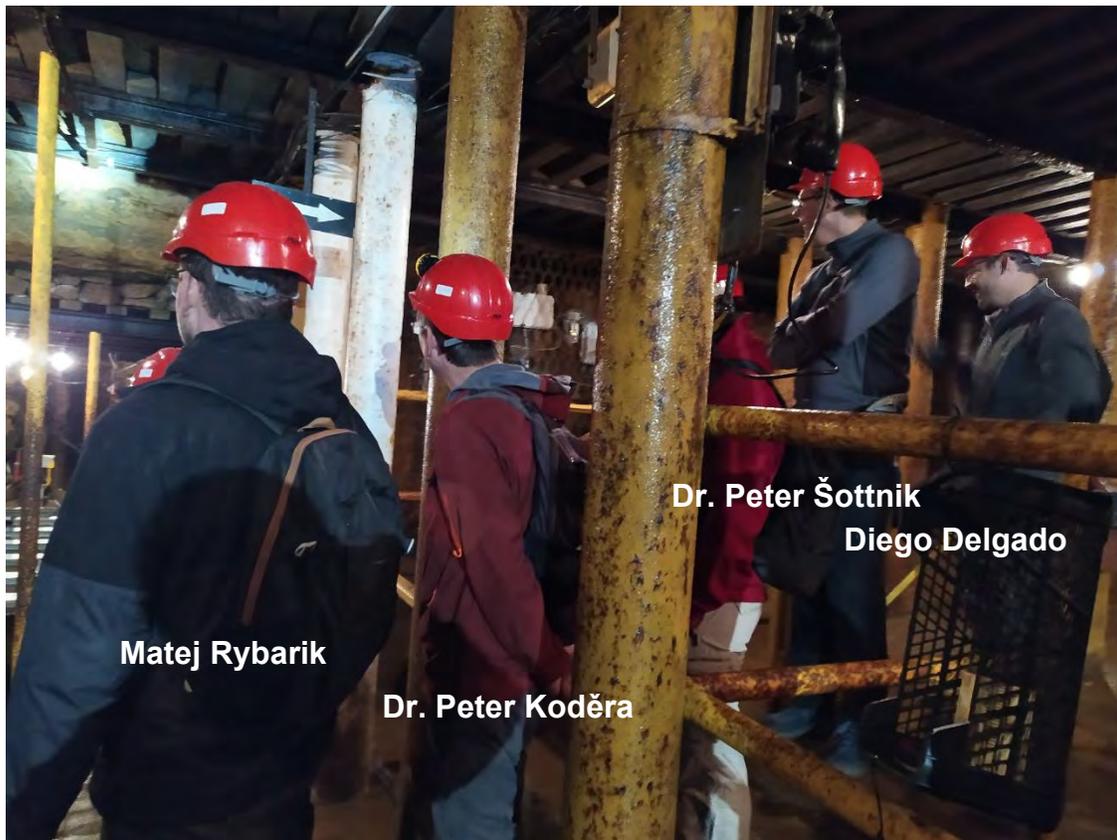
Day three (27/09/2022): Between 8:00-11:00 am, Our SEG Student Chapter travelled from Lubin to Tarnowskie Gory. At this latter town, we visited Popluczkowa Dump. This is a cultural UNESCO site and contains the main waste material extracted from the surrounding mines. Here, the group was able to sample sulfides such as galena, marcasite and pyrrhotite.

At 13:20 pm, we started a guided tour to Tarnowskie Gory Mine and its museum, a Pb-Zn-Ag VMT deposit that ceased its activity in the second part of 20th century. Here we learnt about its history as well as explored part of the main galleries. It was also possible to get some soamples of dolomite hosting galena.

Finally, at around 16:00 pm the group started its travel back to Bratislava, arriving there at 21:00 pm.



Part of the group sampling in the historical site Popluczkowa Dump



Matej Rybarik

Dr. Peter Koděra

Dr. Peter Šottník
Diego Delgado

SEG Student Chapter Bratislava inside Tarnowskie Gory.



SEG Student Chapter Bratislava after visiting the historical mine at Tarnowskie Gory. At the top, from left to right: Matej Rybarik, Diego Delgado, Dr Peter Šottník, Alexandra Molnarová, and Peter Toth. At the bottom, from left to right: Luca Reato, and Dr. Peter Koděra.

Initial note: about inflation and the change of initial amount

The USD-EUR exchange rate considered in this report is the one of 28/09/2022, where 1 USD = 1.03914 EUR. Due to inflation and variability of the value of these two currencies, the initial 1000 USD, that were paid as 1026.76 EUR on the 29th of March 2022 lost value to 983.22 USD. As most of the expenses were sustained during the last days of September, and, as the currency of reference for our expenses has been EUR, the total amount considered for this report will be 983.22 USD, or 1026.76 EUR with the exchange rate of the 28th of September 2022.

Sustained expenses justification

The single expenses are listed below:

| Expense | PLN | CZK | EUR | USD |
|-----------------------------|------------|--------------|---------------|----------------|
| Hotel Baron in Lubin | 2070.00* | - | 452.81* | 460.24* |
| Tarnowskie Gory Museum | 450.00 | - | 93.76 | 89.07 |
| Vignette for Poland | 30.20 | - | 1.22 | 1.16 |
| Vignette for Czech Republic | - | 620.00 | 25.12 | 23.86 |
| Gas EUR | - | - | 145.03 | 137.78 |
| Gas PLN | 525.63 | - | 109.52 | 104.04 |
| | | TOTAL | 827.46 | 816.16 |

*Expense sustained on the 17/08/2022, where the USD-EUR exchange was 1 USD = 0.983865 EUR, and PLN-EUR was 1 PLN = 0.212413 EUR.

Of the initial 1026.76 EUR, only 827.46 EUR (816.16 USD) have been spent, with a residual 199.30 EUR (192.20 USD), that will be used for the activities of next year. This is a direct consequence of two main factors:

1. The loss of value of PLN and a higher buying power of EUR, due to high inflation rates occurring in Poland at the moment of the field trip, compared to last December, when the trip was organised.
2. The presence of 7 members out of the 9 that were considered for the funding request, which of course lowered the amount spent for the accommodation, which was the main expense of this field trip.

The relative invoices can be found in the following pages.