

**Program of the XVII<sup>th</sup> International Conference of Young Geologists  
HEREĽANY 2016  
13.-16. April 2016, Svätý Jur, Slovakia**

**Thursday, 14<sup>th</sup> April 2016**

**09:30 – 10:00**    **Opening ceremony**

**1. SECTION**

**Chairman:**        **Ladislav VIZI**

10:00 – 10:15    **VITALII KULYNYCH, MICHAŁ MARUTA:** *Modeling of air pollution related to the “V” natural gas deposit exploitation*

10:15 – 10:30    **ANNA MIKA:** Using of statistical tools in hydrogeological researches

10:30 – 10:45    **VLADIMÍR BILOHUŠČIN, PAVEL UHER:** Ludwigite-group minerals and szaibélyite: rare borate minerals from Vysoká – Zlatno skarn, Štiavnica stratovolcano, Slovakia

10:45 – 11:00    **JACEK STANISZ, JAROSŁAW KOS, MARTA KUMOROWSKA, MARIA KACZMARZYK:** The influence of root system on slope stability in the view of numerical analysis

11:00 – 11:15    **DOMINIKA CZAPLA, LUCYNA NATKANIEC-NOWAK, PRZEMYSŁAW DRZEWICZ:** Microhardness as a method for investigation of fossil

11:15 – 11:30    **NATALIJA ČIRICA, KRISTINA MILIČEVIĆ:** Evaluation of geothermal potential of Mataruška banja spa (central Serbia) thermal mineral water resins

11.30 – 11:45    **GRZEGORZ ZIEMNIAK, JERZY CZERNY, MACIEJ MANECKI, KAROLINA KOŚMIŃSKA:** The Baklia Fault Zone – a regional strike-slip zone splitting Prins Karls Foreland (Svalbard)

11.45 – 12:00    **MAGDALENA WOŁOWIEC, BARBARA MUIR, TOMASZ BAJDA:** Sorption of organic compounds by organo-zeolites

**12:00 – 13:30**    **Lunch break**

**2. SECTION**

**Chairman:**        **Jaroslav MAJKA**

13:30 – 13:45    **ŠTĚPÁN CHLÁDEK, KAREL BREITER, PAVEL UHER:** Composition of Nb-Ta-Ti-Sn-W oxide minerals: indicators of magmatic to hydrothermal evolution of the Čínovec granite intrusion and Sn-W deposit (Czech Republic)

13:45 – 14:00    **JAKUB NEDVĚD:** A new approach in skin effect and storativity estimation from pumping test data with low pumping rates

14:00 – 14:15    **MAGDALENA TUCHOWSKA, TOMASZ BAJDA, GRZEGORZ RZEPA, KLAUDIA DĘBIEC, ŁUKASZ DREWNIAK:** Arsenic interactions with bog iron ores – As(III) and As(V) adsorption–desorption study

14:15 – 14:30    **KAROL FAEHRICH, KAROLINA KOŚMIŃSKA, JAROSŁAW MAJKA, MACIEJ DWORNIK:** How fluids infiltrate through fractures and change metamorphic rocks - a case study from northern Spitsbergen

14:30 – 14:45    **PAULINA MAZIARZ, JAKUB MATUSIK:** The influence of alkali concentration and temperature on chemical activation of halloysite

14:45 – 15:00    **TOMÁŠ FUKSI:** Differences in shell size of the bivalve *Varicorbula* between marginal parts of the Vienna and Danube basins

15:00 – 15:15    **PAWEŁ GODLEWSKI, MAREK WENDORFF, ANDRZEJ ŚWIĄDER:** Compositional differences between Besko and Otryt sandstones of the Krosno Beds (Oligocene) in Eastern part of the Silesian Tectonic Unit

15:15 – 15:30    **URSZULA SOLECKA, SYLWIA ZELEK & TOMASZ BAJDA:** The Rietveld refinement studies of pyromorphite-vanadinite and mimetite-vanadinite solid solution series

**15:30 – 16:00**    **Coffee break**

### 3. SECTION

- Chairman:** **Jakub BAZARNIK**
- 16:00 – 16:15 **KAMIL JUŠKO, AGATA KASPRZAK, DAMIAN PIETRZAK:** Water chemical composition characteristic in the upper part of the Sztola river
- 16:15 – 16:30 **KLAUDIA KORZEC:** Hydrogeochemical characteristic of thermal waters in Bańska Nizna
- 16:30 – 16:45 **JANIS IVANOVŠ, MARIS KRIEVANS:** Using LIDAR topography data for determination of Morphology and Terrace Levels of the River Ogre Valley in Middle Latvia Lowland
- 16:45 – 17:00 **MARIA MŁYNARSKA, BARTOSZ PUZIO, MONIKA KWAŚNIAK-KOMINEK, MACIEJ MANECKI:** The effect of Ca-Pb and P-As substitutions on the solubility of hydroxylapatites
- 17:00 – 17:15 **MATEUSZ JABŁOŃSKI, WOJCIECH JAŚKOWSKI:** The usage of telemetry measurements methods in order to determine shaft tube deformations caused by natural and anthropogenic rock mass movements
- 17:15 – 17:30 **DAMIAN PIETRZAK:** Assessment of the quantitative and chemical groundwater status of the Łukowica river catchment area
- 18:00 – 19:30** **Dinner**
- 20:00 -** **Discussion evening**

### **Friday, 15<sup>th</sup> April 2016**

- 08:00 – 09:00** **Breakfast**

### 4. SECTION

- Chairman:** **Julián KONDELA**
- 09:15 – 09:30 **FRANC ZALEWSKI:** Triangles in the Walls of the Great Pyramid in Giza
- 09:30 – 09:45 **SERGEY VLADIMIROVICH RUD'KO, ANTON BORISOVICH KUZNETSOV, BORIS GLEBOVICH POKROVSKY:**  $\delta^{13}\text{C}$  variation in carbonate platform sediments of the Northern Tethys in Late Jurassic
- 09:45 – 10:00 **MACIEJ DWORNIK, ANNA FRANCZYK, KRZYSZTOF KRAWIEC:** Analysis of stability levee during different flooding wave stages
- 10:00 – 10:15 **VLADIMÍR ŠIMO, DUŠAN STAREK:** Analysis of the trace fossils from Paleogene formations of the Central Western Carpathian (Orava region)
- 10:15 – 10:30 **ALEKSEY PAKHALKO, ALEKSEY KRYLOV, ELENA MIROLYUBOVA, EKATERINA TALDENKOVA, PAVEL REKANT:** First discovers of Pleistocene authigenic carbonate crusts (ACC) at the Mendeleev Rise, Arctic Ocean
- 10:30 – 11:00** **Coffee break**

### 5. SECTION

- Chairman:** **Lubomír ŠTRBA**
- 11:00 – 11:15 **MACIEJ PAWLIKOWSKI, MACIEJ MANECKI, DAWID KOZIEŃ, EDYTA WALUŚ, ALEKSANDRA BORECKA, JACEK STANISZ, MICHAŁ PEKALA, MONIKA KIECANA:** Characteristics of soil of “Józefka” deposit overlay, Kielce District
- 11:15 – 11:30 **ERYK ŚWIĘCH, ANDRZEJ PASTERNAKCI, PH.D. TOMASZ MAĆKOWSKI:** Selected effects of VTI anisotropy on downhole microseismic data
- 11:30 – 11:45 **MÜGE ATALAR, MARIANNA KOVÁČOVÁ, MINE SEZGÜL KAYSERİ OZER, TORSTEN UTE-SCHER:** Late Messinian palynoflora from Central Anatolian Plateau (Çankırı Basin)
- 11:45 – 12:00 **MATIJA KORDIĆ, MILOŠ MILANKOVIĆ:** Analysis of the situation of the Euphrates-Tigris-Shatt Al Arab river system and possible solutions of the devastation of the ecosystem
- 12:00 – 12:30 **ANNA KOTEJA, JAKUB MATUSIK:** Na-montmorillonite modified with ammonium salts and azobenzene as a photoactive nanomaterial
- 12:15 – 12:30 **MATEUSZ JABŁOŃSKI, TOMASZ LIPECKI, WOJCIECH JAŚKOWSKI, AGNIESZKA OCHALEK:** Virtual Underground City Osówka

**12:30 – 14:00 Lunch break**

## **6 SECTION**

**Chairman: Tomáš BAKALÁR**

- 14:00 – 14:15 **PIOTR KUNECKI, RAFAŁ PANEK, MAGDALENA WDOWN:** Na-P1 zeolite synthesis and its crystalline structure ripening through hydrothermal process using coal combustion by-products as substrates
- 14:15 – 14:30 **PIOTR OPIDO, ANDRZEJ LEŚNIAK:** The comparison of using satellite SAR and optical data in the process of urban growth monitoring
- 14:30 – 14:45 **PRZEMYSŁAW LISOWSKI:** Graph representation of geological stratum
- 14:45 – 15:00 **MARINA POLEDICA, DANICA STEVANOVIĆ:** Proposal of new monitoring network of water bodies of karst groundwater in Serbia
- 15:00 – 15:15 **JOHANNA HOLMBERG, JAROSŁAW MAJKA, IWONA KLONOWSKA:** Metamorphic conditions of the omphacite-garnet gneiss from Otrøy, Western Gneiss Region, Scandinavian Caledonides
- 15:15 – 15:30 **JÁNOS NÁDASI, VIKTOR MÁDAI, JÁNOS FÖLDESSY:** Evaluation of geochemical anomalies detected in the Boda Claystone Formation

**15:30– 16:00 Coffee break**

## **7. SECTION**

**Chairman: Marianna KOVÁČOVÁ**

- 16:00 – 16:15 **ANNA TWARÓG, PIOTR GUZY, HENRYK SECHMAN:** Measurement of methane flux in the selected area of the Polish Outer Carpathians - preliminary research.
- 16:15 – 16:30 **BARBARA MUIR, DAMIAN ANDRUNIK, TOMASZ BAJDA:** Molybdates and tungstates sorption on organo-smectites as a process controlled by the type and amount of surfactant
- 16:30 – 16:45 **MARTA POLAK, BOŻENA GOŁĘBIEWSKA, GRZEGORZ RZEPA:** Manganese oxides from Zalas, Kraków area, southern Poland
- 16:45 – 17:00 **HUBERT MALIK:** Capabilities of subsidence detection on mining areas in Upper Silesian Coal Basin using Sentinel-1A data acquired in Interferometric Wide Swath Mode.
- 17:00 – 17:15 **ANDRZEJ PASTERNAKCI, PAWEŁ WANDYCZ, TOMASZ MAĆKOWSKI:** Effect of the near surface layer for the microseismic monitoring – 2D modelling
- 17:15 – 17:30 **PAVOLOVÁ HENRIETA, BAKALÁR TOMÁŠ, SABO ŠTEFAN, PUŠKÁROVÁ PETRA:** Adsorption efficiency of selected natural and synthetic sorbents

**18:00 – 19:30 Dinner**

**20:00 - Closing ceremony, Rudolf Mock award results declaration  
Discussion evening**

**Saturday, 16<sup>th</sup> April 2016**

**08:00 – 09:00 Breakfast**

**EXCURSION Malé Karpaty Mts. (guided by D.Plašienka, P.Uher and T.Fuksi)**

**09:00 Departure from Svätý Jur**

**18:00 Supposed return to HH Eva**