

# 29<sup>th</sup> Meeting of the Petrology Group of the Mineralogical Society of Poland

Mountain Hotel Mních\*\*\*, Bobrovec, Slovakia

## CONFERENCE PROGRAM

### Wednesday, October 16<sup>th</sup> 2024

**16:00 – 18:30** Registration of the participants for the field trip  
**18:30** Dinner

### Thursday, October 17<sup>th</sup> 2024

**07:30 – 08:15** Breakfast

**Excursion:** Field trip to the Western Tatra Mts.

guided by: *Michał Bukala, Jarosław Majka, Marian Janák, Mateusz Mikołajczak, Ludwik de Doliwa Zieliński & Jolanta Burda*

**08:30** Departure from Bobrovec

**18:00** Supposed return to the hotel

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**16:00 – 18:30** Registration of the participants for the conference

**19:00** Dinner

## Friday, October 18<sup>th</sup> 2024

**07:30 – 08:30 Breakfast**

**08:45 – 09:00 Opening ceremony**

08:45 – 08:50 **JAROSŁAW MAJKA**: Opening words

08:50 – 08:55 **JAKUB KIERCZAK**: Presidential address

08:55 – 09:00 **STANISŁAW MAZUR**: Professor Burchart

**09:00 – 10:30 Presentation session I**

**Chair: KAMIL USTASZEWSKI**

09:00 – 09:30 **DUŠAN PLAŠIENKA**: Western Carpathians and Eastern Alps connections and disconnections (**Keynote Talk**)

09:30 – 09:45 **TANISHKA SONI, STANISŁAW MAZUR, CHRISTIAN SCHIFFER & JAROSŁAW MAJKA**: Deep structure of the Western Carpathians in the light of seismological and potential field data

09:45 – 10:00 **MILAN KOHÚT**: The Cenerian Orogeny in the Western Carpathians - Indications from the Branisko Mts.

10:00 - 10:15 **IGOR ŠOEJONO, STEPHEN COLLETT, MILAN KOHÚT, VOJTĚCH JANOUŠEK, KAREL SCHULMANN & ZITA BUKOVSKÁ**: Constraints on Gondwana passive margin paleogeography from metavolcanic-sedimentary basement of the Western Carpathians

10:15 - 10:30 **LUDWIK DE DOLIWA ZIELIŃSKI, MICHAŁ BUKAŁA, KAROLINA KOŚMIŃSKA, JAROSŁAW MAJKA, ELLEN KOOIJMAN & MARIAN JANÁK**: Monazite dating results from mica schist of the Lower Unit of the Western Tatra Mts.

**10:30 – 11:00 Coffee break**

**11:00 – 12:30 Presentation session II**

**Chair: DUŠAN PLAŠIENKA**

11:00 – 11:15 **VOJTĚCH JANOUŠEK, IGOR BROSKA, MILAN KOHÚT, IGOR ŠOEJONO & PAVEL HANŽL**: Late Devonian–early Carboniferous granitic magmatism in the Bohemian Massif and Central Western Carpathians: what could explain the differences? (**Invited Talk**)

11:15 – 11:30 **ALEXANDRA MOLNÁROVÁ, MARTIN ONDREJKA, MARIÁN PUTIŠ & ONDREJ NEMEC**: New  $^{147}\text{Sm}/^{144}\text{Nd}$  isotopic data and U-Pb zircon ages of the granitoid rocks of the Vepor pluton in the Fabova hoľa area (Vepor Unit, Inner Western Carpathians, Slovakia)

11:30 – 11:45 **MARIA MARASZEWSKA & IGOR BROSKA**: Accessory minerals in the Variscan granitoids of Nízke Tatry Mts. (Tatric Unit, Western Carpathians, Slovakia) as indicators of magmatic-hydrothermal ore-forming processes

11:45 – 12:00 **MICHAŁ BUKAŁA, CHRISTOPHER J. BARNES, KÁROLY HIDAS, MATEUSZ MIKOŁAJCZAK & STANISŁAW MAZUR**: One mica to rule them all, one to bring them all: Variscan assembly of Tatra Mountain crystalline basement

- 12:00 – 12:15 **MARIAN JANÁK, IGOR PETRÍK, DUŠAN PLAŠIENKA & NIKOLAUS FROITZHEIM**: P-T-t conditions of Alpine metamorphism in the south Veporic unit, Western Carpathians (**Invited Talk**)
- 12:15 – 12:30 **SEBASTIAN MACHOWSKI**: Structure determination using high-quality X-ray powder diffraction data (**Sponsor**)

**12:30 – 14:00 Lunch**

**14:00 – 15:30 Presentation session III**

**Chair: STANISŁAW MAZUR**

- 14:00 - 14:30 **KAMIL USTASZEWSKI, ERICK PRINCE, SUMIKO TSUKAMOTO, CHRISTOPH GRÜTZNER & MURIEL BÜLHOFF**: 'Fun with fault gouge' – on the excitement of dating prehistoric seismicity in the Alps using trapped charge methods on incohesive fault rocks (**Keynote Talk**)
- 14:30 - 14:45 **IGOR BROSKA, JAROSŁAW MAJKA, RASTISLAV VOJTKO, IGOR PETRÍK & SERGIJ KURYLO**: Alpine granite duplex formed from two Variscan granite blocks in the Tribeč-Zobor crystalline basement: determination by age, mineral stabilities and structural data (**Invited Talk**)
- 14:45 - 15:00 **BARTOSZ PIETEREK, MAGDALENA PAŃCZYK, JERZY NAWROCKI & DOMINIK GURBA**: Zircons Age Catalog (ZAC) for reconstructing provenance in the Outer Western Carpathians in Poland
- 15:00 - 15:15 **DOROTA STANECZEK & LESZEK MARYNOWSKI**: Assessment of the maturity of the Central Carpathian Palaeogene Basin using biomarker and non-biomarker parameters
- 15:15 - 15:30 **MARTA CIAŻELA & JAKUB CIAŻELA**: In situ and remote sensing mapping of the Atacama desert in Chile: ore prospecting in Mars Analog

**15:30 – 16:00 Coffee break**

**16:00 – 17:30 Presentation session IV**

**Chair: IWONA KLONOWSKA**

- 16:00 – 16:15 **ALESSIA BORGHINI, SILVIO FERRERO, PATRICK J. O'BRIEN, OSCAR LAURENT, BERND WUNDER, LAURENT REMUSAT, JAROSŁAW MAJKA, GAUTIER NICOLI & GIULIO BORGHINI**: Melt inclusions in eclogites as witnesses of elements deep cycles and mass transfer to the mantle (**Invited talk**)
- 16:15 – 16:30 **SŁAWOMIR ILNICKI, GRZEGORZ GIL, WITOLD MATYSZCZAK, ILONA SEKUDEWICZ & JAIME D. BARNES**: Metasomatic record in hornblendite from Bystrzyca Górna (the Góry Sowie Massif, SW Poland)
- 16:30 – 16:45 **JACEK PUZIEWICZ, SONJA AULBACH, MARY-ALIX KACZMAREK, THEODOROS NTAFLAS, MAGDALENA MATUSIAK-MAŁEK, MAŁGORZATA ZIOBRO-MIKRUT & AXEL GERDES**: Evolution of lithospheric mantle of the Hessian Depression (Germany)
- 16:45 – 17:00 **BŁAŻEJ CIEŚLIK, MACIEJ RÓZIEWICZ, ARTUR PĘDZIWIATR, KRZYSZTOF TURNIAK, ALICJA ŁACINSKA, AGATA ŁAMACZ, ANNA PIETRANIK & JAKUB KIERCZAK**: Ex situ mineral carbonation of serpentinized peridotites: CO<sub>2</sub> storage and a small step towards Ni recovery

- 17:00 – 17:15 **GRZEGORZ GIL, KAROLINA D. MIZIELIŃSKA, YAN LIU, ANNA GRABARCZYK-GURBA, JAIME D. BARNES & BOGUSŁAW BAGIŃSKI:** Carbon and oxygen isotope evidence for dolomite-related nephrites formation at the expense of organic matter-rich carbonates
- 17:15 – 17:30 **JAKUB CIAŻELA, EMAN ELSHERIF, MICHAŁ TOMCZAK, AGATA KOZŁOWSKA-ROMAN, WOJCIECH WOŹNIAK, PIOTR WOJTULEK & MARTA CIAŻELA:** Magmatic and hydrothermal metal migration in the oceanic lithosphere: implications for the Polish contract area at the MAR (26 – 33°N)
- 17:40 – 18:50 Workshop**
- 17:40 – 18:50 **VOJTĚCH JANOUŠEK:** Using GCDkit.Mineral - a brand new R software package for interpretation of the electron-microprobe data
- 19:00 Dinner**
- Discussion evening with refreshment**

## Saturday, October 19<sup>th</sup> 2024

**07:30 – 08:15 Breakfast**

**08:30 – 10:00 Presentation session V**

**Chair: ALESSIA BORGHINI**

- 08:30 – 09:00 **FRANCESCA PICCOLI, JÖRG HERMANN, DANIELA RUBATTO & ALBERTO VITALE BROVARONE:** Dating the Undatable: Geochronology of fluid-rock interaction processes and implications for volatile cycling in subduction zones (**Keynote talk**)
- 09:00 – 09:15 **PAULINA ZIEJA, MONIKA A. KUSIAK, RICHARD WIRTH, PILAR G. MONTERO & FERNANDO BEA:** Redistribution of lead in heated zircons from rock samples differing with ages
- 09:15 – 09:30 **URS KLÖTZLI, JOLANTA BURDA & PITSANUPONG KANJANAPAVONT:** Monazite in-situ dating - thermometry – crystal chemistry: Three difficult relationships exemplified by orthogneisses from the Khanom Core Complex (Thailand)
- 09:30 – 09:45 **KAMIL BULCZEWICZ, RAFAŁ SIKORA, JACEK SZCZEPAŃSKI, PIOTR LENIK & GRZEGORZ ZIELIŃSKI:** Metamorphic record of metapelites from AMINV K-1 borehole near Kobierzyce (Lower Silesia, Poland)
- 09:45 – 10:00 **OLGA TUREK, KAROLINA KOŚMIŃSKA, JAROSŁAW MAJKA, MATTIA GILIO, IWONA KLONOWSKA, ALESSIA BORGHINI, ADAM WŁODEK, DANIEL BUCZKO & SIMON CUTHBERT:** Reevaluation of P-T conditions of eclogite facies metamorphism in the Western Gneiss Region, Norwegian Caledonides (**Invited talk**)
- 10:00 – 10:30 Coffee break**

**10:30 – 12:00 Presentation session VI**

**Chair: JACEK PUZIEWICZ**

- 10:30 – 10:45 **IWONA KLONOWSKA, ANTONIA ROOS, JAROSŁAW MAJKA & KARIN HÖGDAHL**: High-grade metamorphism recorded by leucogranite in Ljusdal lithotectonic unit, Svecokarelian orogen: pressure-temperature constraints
- 10:45 – 11:00 **SIMON CUTHBERT, GRZEGORZ ZIEMNIAK, KATARZINA WALCZAK & ISABEL CARTER**: Geochemical diversity of Lower Palaeozoic island arc magmatism in the Iapetus Ocean: The Köli Nappe Complex, Swedish Caledonides
- 11:00 – 11:15 **SCZEPAN BAL, KRZYSZTOF MICHALSKI, GEOFFREY MANBY, KRZYSZTOF NEJBERT, JUSTYNA DOMAŃSKA-SIUŁA, JAROSŁAW MAJKA, ALEKSANDRA HOŁDA-MICHALSKA & JIŘI SLÁMA**: Paleomagnetic investigations of Neoproterozoic carbonates and tillites of Polarisbreen Group, Nordauslandet, Svalbard
- 11:15 – 11:30 **GRZEGORZ ZIEMNIAK, IWONA KLONOWSKA, OLIVER LEHNERT, SIMON CUTHBERT, ISABEL CARTER, RICCARDO CALLEGARI & KATARZYNA WALCZAK**: Santacrucian not Timanian? Sources of detritus in the Paleozoic succession of COSC-2 borehole
- 11:30 – 11:45 **PAWEŁ POPRAWA, EWA KRZEMIŃSKA, KRZYSZTOF NEJBERT, PIOTR KRZYWIEC, STANISŁAW MAZUR, ŁUKASZ SŁONKA, EWA SŁABY & LESZEK KRZEMIŃSKI**: The Mississippian Lublin-Baltic alkaline igneous province (SW slope of the East European Craton)
- 11:45 – 12:00 **MICHAŁ MACIAK, WOJCIECH DURAK, WIKTOR PALUSZKIEWICZ, ZUZANNA PILSKA, MICHAŁ KAJEWSKI, DARIA KAJEWSKA, MARTYNA SERAFIŃSKA, LIGIA SOLECKA, TOMASZ STARZYK, MATEUSZ WOLSZCZAK & GRZEGORZ ZIEMNIAK**: Chemical and phase analyses of Mikoszewo micrometeorite collection

**12:00 – 13:30 Lunch**

**13:30 – 15:15 Presentation session VII**

**Chair: JAKUB KIERCZAK**

- 13:30 - 14:00 **PAVEL UHER**: Granitic pegmatites of Western Carpathians: state of the art (**Keynote Talk**)
- 14:00 - 14:15 **KACPER URBANIK, BOGUSŁAW BAGIŃSKI, RAY MACDONALD & DANIEL E. HARLOV**: Experimentally induced hydrothermal transformation of chevkinite-(Ce): results and conclusions for subsequent experiments
- 14:15 - 14:30 **BARTOSZ PUZIO**: New Insights into the Thermodynamics of Apatite Supergroup
- 14:30 - 14:45 **JUSTYNA TOPOLSKA**: "Metal leakage from orthodontic appliances chemically alters enamel surface during experimental in vitro simulated treatment", i.e. why bio approach is not enough (**Invited talk**)
- 14:45 - 15:00 **MACIEJ GÓRKA, YAROSLAV BEZYK, ŁUKASZ KRUSZEWSKI, JAROSŁAW NĘCKI, IZABELA SÓWKA, JUSTYNA JOŃCA, PAWEŁ JAGODA & DAVID WIDORY**: Isotope and chemical study of atmospheric greenhouse gases and other traces in a municipal waste treatment plant

15:00 - 15:15 **JUSTYNA CIESIELCZUK, MONIKA J. FABIAŃSKA, KRZYSZTOF GAIDZIK, ADÁM NÁDUDVARI, MAGDALENA MISZ-KENNAN & ANNA ABRAMOWICZ**: Is spherulitic hematite evidence of highly acidic conditions created in extreme terrestrial environments and potentially on Mars?

**15:15 – 17:15 Poster session + Coffee break**

**17:30 – 18:30 Business meeting of the Mineralogical Society of Poland**

**19:00 Ryszard Kryza Award Ceremony  
Gala Dinner  
Discussion evening with refreshment**

## **Sunday, October 20<sup>th</sup> 2024**

**08:00 – 09:00 Breakfast**

**Until 10:00 Check-out time  
Departures**