



Mineralogical Society of Poland

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NEW AND “OLD” FACES IN THE MINERALOGICAL SOCIETY OF POLAND MANAGEMENT BOARD

In December 2024, during the General Assembly of PTMin, a new board was elected for the 2025–2026 term.

The new president is Jarosław Majka, the current editor-in-chief of PTMin's flagship journal, *Mineralogia*. Outgoing president Jakub Kierczak will remain part of the board as vice president, a position also taken on by Magdalena Pańczyk. Karolina Kościńska will replace long-serving treasurer Krzysztof Szopa. The role of secretary will once again be held by Anna Potysz, joined this time by Jakub Bazarnik. Grzegorz Rzepa will continue as the librarian. The newly elected board members also include Tomasz Bajda, Justyna Ciesielczuk, Wojciech Franus, and Anna Pietranik.

Below, we present the profiles of the president, vice presidents, and treasurer.



Jarosław Majka (AGH University of Science and Technology, Kraków, Poland; University of Uppsala, Sweden) is a metamorphic petrologist primarily focused on subduction processes. His research mostly concerns pressure–temperature–time deformation histories of high-grade rocks from the Arctic and Scandinavian Caledonides, the Bohemian Massif, and the Carpathians formed due to deep subduction of oceanic and continental crust. Additionally, he is interested in REE-bearing

minerals, especially in their stability under various pressure–temperature–fluid conditions. Recently, he became active in the field of REE beneficiation from phosphates, such as apatite supergroup minerals and monazite.



Magdalena Pańczyk-Nawrocka (Polish Geological Institute – Polish Research Institute, Warsaw) is a petrologist specializing in the study of volcanic rocks. She has been working in the SHRIMP lab in Warsaw for 10 years, mainly dating zircons. Her favorite research area is West Antarctica. Currently, she focuses on the dating of detrital zircons from Carpathian flysch, loess, and tuffs. Additionally, she is interested in sulphur isotopes in sulphides.



Jakub Kierczak (University of Wrocław) in his research focuses on reconstructing the migration pathways of metallic elements from ultramafic rocks and metallurgical slags. He specializes in the study of the mobility and distribution of metals in natural and human-impacted soils. His work involves analyzing metallurgical slags within a multidisciplinary framework, including environmental science, archaeometry, and metal recovery.



Karolina Kościńska (AGH University of Science and Technology, Kraków) is a metamorphic petrologist focused on the unraveling of the pressure–temperature–time history. She is especially interested in the geology of the Arctic. Her recent research interests focus on the character of quartz–coesite transition and the application of inclusion based geothermobarometry.

10th ANNIVERSARY OF SHRIMP II^e/MC IN THE POLISH GEOLOGICAL INSTITUTE – NATIONAL RESEARCH INSTITUTE

On December 5th, 2024, the Jubilee Scientific Session took place at the Geological Museum Building to celebrate the 10th anniversary of the Ion Microprobe Laboratory at the Polish Geological Institute – National Research Institute in Warsaw. The main goal of the session was to review the scientific achievements made possible by the analysis results obtained using the SHRIMP II^e/MC ion microprobe. This ion microprobe, purchased through funding from the Polish Ministry of Science and Higher Education, remains the only device of its kind in Poland and is also used by researchers from other Polish and international institutions in cooperation with the laboratory.

Our special guest for the anniversary was Prof. Ian Williams from the University of Canberra in Australia, who was thanked for the long-term collaboration with the Institute by the Director of PIG. Referring to his lecture over 10 years ago during the opening of the laboratory after the installation of the SHRIMP microprobe, in his presentation titled “What’s New in the World of SHRIMP?”, he shared the latest analytical trends and developments in SHRIMP ion microprobe technology.



Group photo of participants of the session in the hall of the Geological Museum Building.

The main session started with Prof. Stanisław Mikulski, who presented the history of scientific collaboration with the ion microprobe laboratory at the University of Canberra and the journey to acquire funding and build our own laboratory. This was followed by invited speakers presenting their research findings obtained using the SHRIMP II^e/MC ion microprobe. The topics were diverse, ranging from the reconstruction of petrogenesis of magmatic rocks based on zircon analyses (Ewa Krzemińska – “Zircons are not eternal: O–U–Pb isotope studies of zircons from alkaline rocks”, Anna Pietranik – “Permo–Carboniferous rhyolites of Central Europe: A complex challenge for geochronology,” and Anna Garbarczyk-Gurba – “Dating anorthosites: A mission impossible?”) to studies aimed at understanding the geological structure and genesis of mineralization (Rafał Sikora – “Using U–Pb SHRIMP ion microprobe to verify the age of crystalline rocks in the Khasagt Mountains (Western Mongolia),” Ewa Krzemińska – “Isotopic composition (U–Pb, O) of zircons from Variscan igneous rocks in the regional tectonic zone of Kraków–Lubliniec and adjacent areas,” and Beata Naglik – “Case study:

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European Mineralogical Union

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EMU SCHOOLS AND NOTES IN MINERALOGY

The European Mineralogical Union helps to organize the EMU Schools, i.e., various workshops in the field of geosciences, where experts give review lectures starting on the traditional university level but providing the participants at the end with the skill of understanding even the latest trends of the given field.

The EMU contributes €2,000 to each School and arranges the publication of workshop outputs in the form of a volume in the *EMU Notes in Mineralogy* book series. Proposals for the future EMU Schools are highly welcomed (contact person – Michael Plötze, michael.ploetze@igt.baug.ethz.ch). The traditional model of one week of lectures can be adjusted (e.g., shorter courses in conjunction with national or international meetings).



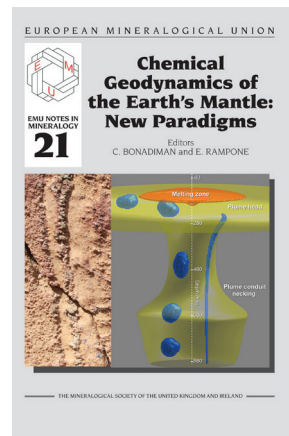
Participants of the 2021 MEREMA School – Chemical evolution and dynamics of Earth's mantle (Sestri Levante, Italy).

During the past term, two EMU Schools were organized:

- 2nd MEREMA School – Chemical evolution and dynamics of Earth's mantle (24–28 October, 2021 in Sestri Levante, Italy) – see *Elements v18n1*
- MINEWA 2022 (Minerals and waste, an Anthropocene tale) – Role of minerals in waste composition and treatment (20–24 June, 2022 in Bardonecchia, Italy)

Volume 21 of the *EMU Notes in Mineralogy* dedicated to the 2nd MEREMA School – Chemical Geodynamics of the Earth's Mantle: New Paradigms edited by Costanza Bonadiman and Elisabetta Rampone (for more information, see *Elements v18n3*) was recently published and is available online at www.eurominunion.org/?page_id=1943.

Output from the MINEWA 2022 – Minerals and Waste (edited by Mario Tribaudino, Daniel Vollprecht, and Alessandro Pavese) was published by Springer in 2023.



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Using the SHRIMP IIe/MC ion microprobe for poly-metallic deposit prospecting – Mo-Cu-W mineralization in Myszków”). Methodology of dating zircon from loess was presented by Magdalena Pańczyk (“Carpathian sources of detrital zircons in loess”).

An important aspect of the SHRIMP laboratory's research is also the dating of zircons from rocks in the Arctic and West Antarctic regions, which was well illustrated by presentations by Jarosław Majka (“Geochronological record of early Paleozoic subduction in the Arctic,” and Jerzy Nawrocki (“Did volcanism impact the Antarctic climate? A review of the age of volcanogenic formations on King George Island, West Antarctica”).

Stable isotope analysis also constitute an important research in the laboratory as was shown by Hubert Wierzbowski (“Oxygen isotope profiles in Upper Jurassic marine vertebrate teeth: Environmental changes and animal habits”), while Ewa Krzemińska shared also multi-disciplinary talked about identifying a multi-year drought in the 4th millennium BC in Mesopotamia using the ion microprobe.

During the session, nearly 90 guests were treated to a jubilee cake. After the oral presentations, a poster session followed, along with a brief social gathering. Those interested had the opportunity to visit the SHRIMP ion microprobe laboratory before or during the breaks of the conference.

AUTHORS: **Magdalena Pańczyk, Ewa Krzemińska,**
and **Anna Pietranik**

COMING SOON

Numerical Modelling of Geological Processes with emphasis on geochemistry, petrology, and geochronology: a workshop by Prof. Evangelos Moulas (Mainz University, Germany) will be organized at the University of Wrocław (Poland) on 6–9 October 2025.

Workshop description: In recent years, advances in analytical instrumentation and computing capabilities have enabled the quantification of geological processes using physics-based models of material behavior. In particular, the distribution of major and trace elements in geomaterials (e.g., minerals and fluids) can now be accurately predicted under a wide range of conditions. Similar models are available for the distribution of radiogenic elements in minerals. Understanding the physical processes that govern element distributions in minerals allows us to quantitatively constrain the exhumation history of rocks.

Examples of such processes include the diffusion of trace and major elements in minerals and melts, as well as the diffusion of radiogenic elements in dated minerals. Forward modelling of these processes enables the formulation of testable hypotheses about the geological history of rocks.

In this workshop, participants will learn to use existing models for diffusion in minerals through practical exercises focused on modelling the distribution of major and radiogenic elements. The workshop will be conducted in English and will use MATLAB/OCTAVE as the programming environment. No prior programming experience is required.

The 30th Anniversary Meeting of the Petrology Group of the Mineralogical Society of Poland in 2025 will be held under the theme “How Can Mineralogical Sciences Support the Mineral Resources Industry?”. The conference will be held in Lubliniec on 16–19 October 2025. The main goal of the conference is to create a platform for dialogue between academia and the mineral resources industry to present new trends in mineral exploration and raw materials recovery from secondary sources. Website of the conference: <https://ptmin2025.uwr.edu.pl>, mail: ptmin2025@uwr.edu.pl.