



Mineralogical Society of Poland

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MEETING OF THE MINERALOGICAL SOCIETY OF POLAND, BIELAWA 2023

The 9th Meeting of the Mineralogical Society of Poland (PTMin) and 28th Meeting of the Petrology Group of the PTMin (<https://ptmin2023.ing.pan.pl/home.html>) were chaired on 19–22 October 2023 by Jakub Ciałęła and his team from the Wrocław centers of the Instytut Nauk Geologicznych PAN in cooperation with the other centers, as well as Adam Mickiewicz University in Poznań, Polish Geological Institute - National Research Institute, and Wrocław University. The conference was held in Hotel Dębowy Biowellness & SPA (hoteldebowy.pl), in the picturesque park and palace complex in Bielawa near Wrocław, a town located between different units of the Central Sudetic Ophiolite.



The holders of the awards for the best student presentations funded by Bureau Veritas. **FROM LEFT:** Jakub Kierczak (PTMin chair), Bartosz Pieterek (best student poster), Maciej Fitt (best student oral presentation), Justyna Ciesielczuk (Petrology Group chair), and Jakub Ciałęła (meeting chair).

For the first time in a long time, the conference gathered more than 100 participants, including numerous international researchers from Italy, Germany, Great Britain, South Africa, Spain, Belgium, and Hungary. The conference, with this year's topic "Oceanic lithosphere: rocks, minerals, and critical resources", focused on the oceanic lithosphere and ophiolites, crucial for Poland due to the ongoing Polish sulfide exploration in the contract area of the International Seabed Authority on the Mid-Atlantic Ridge (2018–2033). The first four of eight thematic sessions were dedicated to this topic, with one on the oceanic lithosphere and its vital resources, two on ophiolites, and one on subduction zones, all held on Friday. We also had the pleasure of hosting renowned keynote speakers. Francisco Javier González Sanz from the Geological Survey of Spain summarized the challenges of deep-sea mining for polymetallic nodules and polymetallic sulfides. Jürgen Koepke of the Leibniz Universität Hannover (Germany) discussed fast-spreading-type ophiolites in the context of the Oman Drilling Project of the International Continental Scientific Drilling Program. Riccardo Tribuzio of the Department of Earth and Environmental Sciences, University of Pavia (Italy) discussed ophiolites' origin and tectonic position in the Alpine–Apennine complex. The topic of the oceanic lithosphere was further exploited during the field trip on Sunday, which allowed the participants to see exposures of rocks representing various parts of the Central Sudetic Ophiolite, including the upper mantle and

Participants of the 9th Meeting of the Mineralogical Society of Poland (PTMin) in 2023.



Field trip to the Central Sudetic Ophiolite. The last stop at the ocean floor sediments in Pustków Wilczkowski. The background shows a view of the hills made of crystalline rocks, from the left Radunia (mantle), Ślęża (gabbro), Wieżyca (dikes), and Gozdnicza (basalts) investigated during previous stops.



Five of our six keynote speakers with local gifts from the Bolesławiec pottery factory. **FROM LEFT:** Krzysztof Woźniak, Jürgen Koepke, Riccardo Tribuzio, Steve Mojszis, and Frédéric Hatert.

the Moho transition zone at the Tąpadła Pass; gabbro, diabase dikes, and basalts at Góra Kunowska; and metamorphosed oceanic sediments with metamanganolites representing former Fe–Mn crusts of the ocean floor in the Kamionki Hill near Pustków Wilczkowski.

During the Saturday ore geology session, Frédéric Hatert of the Laboratory of Mineralogy, University of Liège (Belgium) explained how to link the Fe–Mn-rich crusts with metamanganolite rocks such as those present, for example, in Pustków Wilczkowski or the famous manganese cotecules of the Stavelot massif, Belgium. In addition to ore geology, Saturday's second set of sessions included environmental geology, mineralogy and petrology, and planetary geology. In his keynote talk, Krzysztof Woźniak of the Chemistry Department, University of Warsaw (Poland), invited us into the fascinating world of high-pressure quantum crystallography of minerals. In an electrifying talk, Stephen Mojszis (Research Centre for Astronomy and Earth Sciences, MTA Centre for Excellence, Budapest / Hungarian Academy of Sciences, Hungary) took us to extraterrestrial environments, including those beyond the Solar System, which is particularly timely, when the need of human space expansion is inevitable.