

SEG Student Chapter Field Trips

Akita University SEG Student Chapter: Kitakami Area of Iwate Prefecture, Japan

In September 2022, the Akita University SEG Student Chapter (AU-SEGSC) organized a three-day field excursion to visit six separate sites within the Kitakami region of Iwate Prefecture, Japan. Some of the best-preserved and most coherent records of the evolution of the Japanese island arc predating the opening of the Sea of Japan are contained within geologic units exclusive to this area.

The sites that were visited include the Kuji Amber Museum, the Noda Tamagawa metamorphosed stratabound Mn deposit, the Ryusendo limestone caves, Jodogohama adakitic rhyolite outcrop near Miyako City, the Tamayama pegmatite vein-hosted Au deposit, and the Kamaishi Fe-Cu skarn deposit and mine. The theme of the excursion centered on field study of skarn and orogenic Au deposits in the Kitakami region of NE Honshu and its associated magmatic, hydrothermal, and metamorphic activities related to the Paleozoic-Mesozoic evolution of the Japanese island arc. It was extremely interesting to learn about the varied geology at each site and the different styles of mineralization.

The field excursion had 20 participants consisting of 18 student members currently pursuing M.Sc. and Ph.D. research projects related to economic geology and was led by our chapter advisors Yasushi Watanabe and Andrea Agangi of the Faculty of International Resource Sciences, Akita University. The AU-SEGSC is deeply grateful to the Stuart R. Wallace Fund



Group photo taken during field study of the exposed skarn mineralization at the Shinyama deposit, Kamaishi.

and Akita University for the immense support given to make this field excursion possible. For a full detailed report of all the sites visited on our field excursion please visit www.segweb.org/studentchapters.

Prepared by the AU-SEGSC executives: Leeysmo Hulijeli (Pres.), Kotaro Seno (VP), Mallika Intachai (Treas.), and Shoma Yamada (Sec.)

Montanuniversität Leoben SEG Student Chapter: Cyprus

The SEG Student Chapter of Montanuniversität Leoben conducted a field trip to Cyprus from September 19 to 28, 2022. Twelve student members from the student chapter participated and were guided by SEG Fellow Johann G. Raith and Ronald Bakker from Montanuniversität Leoben as well as by

colleagues from the Geological Survey of Cyprus. The aim of this trip was to study the world-famous Troodos ophiolite complex and its mineral resources—i.e., VMS, podiform chromite, and asbestos deposits. In addition, the Circum-Troodos sedimentary sequences, which have potential for industrial minerals (e.g., bentonite, gypsum), were visited.

The trip started with an introduction at the Troodos UNESCO Global Geopark Visitor Centre. The first two days featured an overview about the Troodos ophiolite complex and the overlying sedimentary sequences. On the following days the group visited the lower ophiolite sequence (ultramafics with podiform chromite bodies; plutonic sequence) and the upper volcanic sequence (sheeted dikes, pillow lavas, VMS deposits). The abandoned copper mines at Skouriotissa (operated by Hellenic Minerals until 2019), Agrokipia, Mathiatis, and Kikkinovounaros allowed us to study the relationship of VMS (Cu-Zn ± Au) mineralization and alteration to host rocks and geologic structures, as well as aspects of ancient to recent mining and metallurgy. Trips to the Mamonia Complex and Arakapas fault zone served to complete our understanding of the complex geologic evolution of Cyprus. We thank SEG for financial support through the Stewart R. Wallace Fund.



Montanuniversität Leoben Student Chapter field trip participants at the Agrokipia mine (copper and sulfur production from 1952 to 1971) with weathered/altered pillow basalts in the background.

Florian Altenberger and Viktor Bertrandsson Erlandsson (SEG Student Member)