



Ore deposits of NE Greece and SE Bulgaria – Sofia University SEG Student Chapter field trip, 2019

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During 23–29 of May, 2019 Sofia University SEG Student Chapter held the annual field in NE Greece and SE Bulgaria. Our field trip leaders were Profs. K. Bogdanov and N. Botoucharov from Sofia University and V. Melfos from Aristotle University of Thessaloniki.

The first stop was at the Ada Tepe low-sulfidation epithermal gold deposit hosted in sedimentary rocks along detachment zone on the contact with the metamorphic core complex formation. On the next day we went to the gold-bearing Fe-Cu-(Zn-Pb) Xylagani VMS deposit that is hosted in volcanic rocks, which belong to the Rhodope metallogenic belt and have been metamorphosed to very low to low grade stage.

The next deposit was Perama Hill, which is an HS epithermal Au deposit structurally controlled by dykes and andesitic volcanic breccias.

Xanthi area was the fourth location that we visited and it belongs to IRGS (Cu-Fe-Mo-Bi-W-Au deposits) attached to the contact of granodiorite intrusion with marbles, gneisses and amphibolites. The next stop was Maronia PCD that is hosted by a porphyritic microgranite with well developed argillic, phyllic, and propylitic zones which extends into the surrounding host rocks.

Our visit to Stratonis mine included Mavres Petres and Madem Lakkos Pb-Zn-Ag replacement deposits hosted in two marble horizons that have been folded into an antiformal structure with mineralization preserved on both limbs. The next stop was to the manganese mineralization near Kato Nevrokopi, Drama, hosted in the Precambrian to Early Paleozoic Upper Marble Unit, which is underlying Lower Schist Unit.

The Vourinos Ophiolite Complex was exciting outcrop that we visited that represents a fragment of oceanic lithosphere emplaced after the Late Jurassic closure of the Neotethyan Pindos Ocean, consisting mainly of a well-preserved mantle sequence dominated by peridotite and chromitite.

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