



Gellért Hill



Szemlőhegy Cave



Mátyás Hill

Jump from the Triassic into the Eocene: field trip in Budapest April 27, 2014.

Leader: Dr. Szabolcs Leél-Őssy (Eötvös Loránd University)



Nummulitic limestone

The Buda Hills are located in the northeastern part of the Transdanubian Range, partly in Budapest, on the right side of the Danube. The oldest known rocks here are Triassic dolomites and limestones, which were formed in shallow water. The Jurassic-Paleocene sediments are missing, partially due to the uplifting and erosion of the Transdanubian Range during the early Paleogene when a tectonic event determined the evolution of the whole basin (Pannonian Basin started to form at this time). On the Triassic carbonates we can find upper Eocene-Oligocene sediments: conglomerates, breccias, sandstones, shallow-water carbonates and overlaid by deep water sediments (marls and clays). There are Miocene sandstones and limestones at the top of the Oligocene sediments. Pleistocene freshwater limestones also appear at some places, for example on the Gellért Hill.

During our field trip we will visit the **Gellért Hill** to look out to the Buda Hills and the Pest plain to understand the tectonics of the area. We will also inspect some outcrops here of Triassic dolomites, Eocene breccias and Pleistocene freshwater limestones. Then we will visit the Ósforrás one of the hot springs of the Buda Thermal Karst.

At the second part of our field trip we will visit the **Mátyás Hill** and **Fenyőgyöngye quarries** where we can see further typical rocks of the Buda Hills (cherty Triassic dolomites, Eocene limestones, Eocene-Oligocene marls).

Finally you can visit the **Szemlőhegy Cave**, one of the hydrothermal caves of Budapest (optional program but highly recommended).

Hiking boots are recommended.

Registration fee covers: lunch packet, printed guide book

Entrance fee of the Szemlőhegy Cave is not included in the registration fee. Student ticket is 800 Ft and adult ticket is 1000 Ft, if you choose this program.

Travelling: by public transportation (pass is recommended).

Duration: field trip ends by 5 p.m.

Contact: budapestfieldtrip@gmail.com



Cave raft & botryoids