

COURSE TITLE:

## ENVIRONMENTAL MINERALOGY PRACTICE

COURSE DESCRIPTION:

Information content: Systematic mineralogy: most frequent minerals present in the natural environment (50-70 species), their basic mineralogical properties, with emphasis on their environmental roles: minerals with environmental (sulphides) and health risks (amphibole and serpentine asbestos, erionite, quartz), minerals applicable in environmental remediation strategies (zeolites, clay minerals, the rock perlite), minerals transforming under environmental conditions.

Topics covered:

Case studies from Hungarian and international environmental problems (sulphidic ore waste damp remediation, asbestos in the natural and built-in (indoor) environment, asbestos removal, remediation of asbestos mining areas, airborne dusts)

LITERATURE:

Papp, G., Weiszburg, T.G. (ser.ed. 2000): EMU Notes in Mineralogy Vol. 2: D.J. Vaughan, R.A. Wogelius (ed.): Environmental Mineralogy. Eötvös Univ. Press, Budapest, pp. 1–434.

TEACHER:

**Tamás G. Weiszburg**

associate professor