

Economical deposits in sedimentary environment

*for master students, 2 hours per week, usually in the summer term
participants receive handouts of ca. 75 pages
exam: written, 45 minutes for 6-8 questions*

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Definitions

Exploration and mining economy in brief

Deposits related to weathering / residual sediments

gossan, regolith, laterite, Ni-laterite, bauxite, karst-bauxite

Placer deposits

gold, zircon + rutile + REE, diamond, tin

Chemical sediments

phosphate, Fe-sediments, Mn-sediments

Exhalative, infiltration and metasomatic deposits

**(SEDEX, Kupferschiefer, MVT-type deposits, Carlin-type gold
deposits, sandstone-type U-ores)**

Combustible materials

coal,

hydrocarbon (oils, gas, tar sand, oil shale, tight gas, gas hydrate)

Mineral processing