

## SUMMARY

Copper played crucial roles throughout the history for at least 10,000 years and was an important part of the industrial revolution. Copper has specific chemical and physical attributes. Thanks to its abilities, copper is one of the most demanded metals in the industrialized world. Copper is widely used to produce various products, such as electrical and electronic products, construction, industrial equipment and other general products. Occurrence of Cu in the Earth's crust is around 50 ppm. Copper bearing minerals are discussed later, but Cu can be found in pure "native" form.

Porphyry Cu deposits supply more than a half of world Cu production. Regions with the most abundant PCDs are the Andes of South American, North American Cordillera and southwestern Pacific region. Europe, Africa a central Asia host some significant deposits.

Review-based bachelor thesis "Porphyry Cu-Au deposits in the world and Mongolia" discusses variety of aspects of global porphyry deposits regarding their metal association, geology, global abundance, and genesis in the first part. Next part discusses briefly the Mongolian copper production and regional geology and final part discusses characteristics of two Mongolian gold-rich porphyry Cu deposits, Oyu-Tolgoi and Kharmagtai.