

## SUMMARY

The Bachelor's thesis is written as a research talking about storing Pb in tree rings. The first part speaks about the basic characteristic of the pollutant, his natural and anthropogenic deposits. Following chapters are comparing the tree rings with the peat bogs, which are often used as a natural archive of the contamination by the metallic elements. Than I continue with the description of the transport of Pb into wood and subsequent radial distribution in tree rings. One of the chapters concludes the results of certain researches of tree rings. The main time sections of environmental pollution in the 20<sup>th</sup> century are shown by the results of researches on the concentrations and isotope ratios of Pb. These studies inform us also about sources causing this pollution. The thesis includes also a chapter about bark pockets, which can be used as another alternative to observe the movement of Pb in the environment. The last part describes the method ICP-MS usually used to determine Pb in natural materials.