Abstract

The review part of this thesis focuses on the synthesis of knowledge about male cones

of Mesosoic conifers and their pollen based on selected examples from Upper Cretaceous of

Europe. This thesis especially examines families Cheirolepidiaceae, Podocarpaceae,

Araucariaceae and Cupressaceae. In this thesis the characteristics of these families are

supplemented with a comparison to their recent genera. The main method described in this

thesis is the study of pollen in situ due to the majority of these selected examples being

preserved as compressions.

The practical part of the thesis aims to taxonomically classify the fossilized male cones

provided from the collections of the National Museum, originating from the Peruc-Korycany

Formation locality of Pecínov. One of these cones was assigned to the genus Classostrobus

associated with the conifer Frenelopsis alata (family Cheirolepidiaceae) based on the presence

of in situ pollen genus Classopollis and the shape of its microsporophylls.

Key words: Cretaceous, conifers, pollen in situ