

According to the associated fossils such as *Spiriferina emmrichi* (= *Sinucosta emmrichi* [Suess] Dacys), *Pecten* sp. and *Trigonia* aff. *zlambachensis* the geologic age of the formation is Rhaetian.

**Studies on the Genus *Aurila* Pokorny 1955 from the Type-locality
Nussdorf, Vienna Basin, Austria**

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Abstract: In the present paper the genus *Aurila* POKORNY from Nussdorf (type locality of REUSS 1850), Vienna Basin, is described.

Totally four different species of this genus were identified. Due to lack of comparison material, these species are described on open nomenclature basis and numbered from *Aurila* 1 — *Aurila* 4. The distinguishing features of different species are given. The sexual dimorphism of *Aurila* 2 is studied by measuring 65 representatives of this species. The results of this measurements are shown in a graph.

A new *Operculina* from Carinthia, Austria

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Abstract: *Operculina alpina* DOUVILLÉ ssp. *carinthiaca* is described of material from Upper Cuisian, White Nummulitic Limestone ("Unterer Weisser Kalk"), from the main quarry of Wietersdorf Cement Factory, Wietersdorf (Carinthia, Austria).

Upper Oligocene Spores and Pollengrains of Klein-Rust in Austria

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Abstract

To get familiar with problems of Tertiary pollen-stratigraphy, Doz. Dr. KLAUS suggested to investigate the Upper-Oligocene clay of Klein-Rust in Lower Austria.

It was an advantage that the age of the layer was already well known by the investigations of W. FUCHS 1955, R. GRILL 1959 and W. KLAUS 1955.

There is a rich spore and pollen community in almost all the samples. The composition consists of typical Upper Oligocene elements, to which can be added a few „older“ (i. e. Eo-Oligocene) elements and also an increase of „younger“ (i. e. Miocene) elements.

32 different species have been counted and the special spore description comprises 12 species. The author used the technique of single grain preparation (W. KLAUS 1953) and 12 microphotographs are added.

The artificial spore naming is provisionally adopted as in the paper of R. POTONIÉ 1956 and BLANKA PACLTOVÁ 1960.

The author found in the Klein-Rust samples a similar community of spores and pollen grains like in the lignits of Mydlovary-Borovary series from Czecho-Slovakia, whose age is Oligo-miocene (BLANKA PACLTOVÁ 1960).