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Aspects of Nomenclature, Taxonomy, Ecology, Cenology, Climatology and Faciology in Paleopalynological Research

(Abstract)

Some methodological aspects of palynological work are discussed, amongst others clean sampling and maceration techniques. The most important part of the palynological work is the identification of forms. Beside morphological identification, biological identification is needed, if possible. This is the basis of any further scientific and practical conclusion. In Hungary, paleoclimatological zones could be distinguished by means of palynological studies.

These and some faciological conclusions including redeposition have proved to be important for industrial exploration work too.

Biostratigraphical information obtained is a serious help for geological mapping done by the Hungarian Geological Institute. Of course, palynological results are evaluated together with those of other micro- and megapaleontological, sedimentological, investigations. Three palynological diagrams display the different possibilities of evaluation.

Dr. J. Bóna, National Prospecting and Drilling Co., Komló

Palynological Practice in the Investigation of Liassic Coal Measures in the Mecsek Mountains (South Hungary)

(Abstract)

Continuous Upper Permian to Upper Cretaceous sedimentation in the Mecsek Mountains comprises two cycles. The second one started with the deposition of a 200 to 1200 m. thick black coal bearing formation of Lower Liassic age.

Pollen studies have contributed essentially to settle the following major problems:

1. Approximate determination of carbonization grade (depending mainly on tectonic stresses).

2. Tracing the Triassic/Liassic boundary. Of 128 forms found in the examined sequence, 38 are indicative of the Upper Triassic only, while 38 — of the Lower Liassic. They never occur together.

3. Distinction of swamp zones: deep swamp, shallow swamp and swamp forest, with direct possibilities of coal measures correlation. This is a very important aid in this area, which is very intensely folded.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: Jahrbuch der Geologischen Bundesanstalt Sonderbände

Jahr/Year: 1971

Band/Volume: 19

Autor(en)/Author(s): Nagy Eugen

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