



Inclusion ***** WrosteK

18 *****

*Paleontomological Newsletter and Workshop * Cracow * 15.09.1994*

Dear Readers,

this issue is devoted mainly to those persons who will receive the "Inclusion" for the first time (mailed to much more addressees than the preceding ones); thus it contains only two topics: (a) a kind of introduction to paleoentomology and the Newsletter, and (b) a preliminary mailing list.

Paleoentomology understood here traditionally as a study on **fossil land arthropods** certainly is not the center of our Cosmos, but it needs information from, and cooperation with, a series of scientific branches - I would suggest - many more than other biological disciplines. This is the reason why so many entomologists refuse to study fossil insects (because they are "difficult") and, on the other hand, why the paleoentomological groups (associations) are so diversiform.

Paleoentomology bases on fossil and recent material, to the same degree (!). Fossil material is either a **remain**, **impression** or an **inclusion**.

The fossils introduce us to the world of **geology** and all its branches - geophysics, stratigraphy, geochemistry, mineralogy etc. We would like to know (we **must** know) **when** the creature which now is an **impression had lived**; i.e., we are asking about the **time**.

From among the myriads of creatures only a minute proportion has been preserved by the nature as fossils; we would like to know the conditions of **fossilization**. This information is also important in **preparing** the fossil for examination. Sometimes the fossils are like dead specimens of today, for instance beetles or bugs with strong skeleton; we call them **subfossil** remains, only some thousand or some hundred thousand years old.

Various plant species produce **resin**, and have produced it since Carboniferous. Resin is a very good medium of preserving creatures and other organic and inorganic objects that have been included in it - the **inclusions**. However, with time, the resin also changes; after some hundred or thousand of years it assumes a form of **copal**, and eventually it transforms into an organic mineral or fossil resin, commonly called **amber**.

Thus the inclusions introduce the paleoentomology to the enormous, wonderful and mysterious **world of amber**: the mining, manufacture, industry,

trade, jewellery and arts, and amber collections. However, amber was known, manufactured and used by the man many thousands years before anybody was interested in insects, fossil or recent (except perhaps the louse and those suitable to be eaten). We know this from the finds of **archeology**. Did our ancestors realize the presence of inclusions in the amber? What were they thinking about them?

Resin belongs to the field of **botany**. Why do some plants produce and exude resin? How do they do it? How is it possible to distinguish one resin from another one? Also: Does the chemistry of resin change in time, during fossilization? What means "fossilization" in this instance? Are we able to recognize the mother plant of a fossil resin? We hope **mineralogy** will answer to the latter questions.

Paleoentomology is a discipline of paleontology or **paleobiology**. To this field also belong paleoclimatology, geography, ecology, botany, molecular biology etc. It seems, during some geological periods large-scale and sudden extinction of many animal and plant groups occurred. Some paleontologists suggest factors from outside our Earth might have been responsible for those phenomena, thus astronomy also is involved in paleontological studies.

Obviously, paleobiology has its own questions, methods, rules and problems. One is the relation between the living world of a given epoch and the remains (fossils) of it. Some creatures, although very numerous and abundant at those times did not "survive" as fossils; others, reversely, are represented by numerous fossils (e. g. as amber inclusions). It is the task of **taphonomy** to answer such questions.

Fossils may be nice things, especially amber inclusions, and they are collected by various people, not necessarily paleontological researchers. This kind of human activity, especially great in Germany

Continued on p. 2

ABBREVIATIONS

GEO = any geological sciences (stratigraphy, mineralogy etc.); **AMB** = any interest in amber (chemistry, inclusions, collections, arts etc.); **BIO** = any interest in evolution, phylogeny, paleontology, taphonomy etc.); **INS** = land arthropods (systematic group if known); **OTH** = interest in contacts; **???** = unknown interest.

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additional (usually marginal) or weekend job. For example, in Poland, there is only one paleoentomologist (at the same time museum curator) at the Museum of Earth (none at the Paleobiological Institute), others are scattered within zoology, parasitology, education, even agriculture.

These two points stimulated the origin of the "paleoentomological group" (or section) in Poland (1985). Obviously, it is not an institution or society, even a list of members does not exist (except the mailing list). We (a few of people) meet once a year (usually for one day) and publish the "Inclusion-WrosteK".

"We" means entomologists, mineralogists, geologists, botanists, amber collectors etc. Some of the "paleoentomologists" are not even entomologists and do not plan to study any fossil insect whenever.

The newsletter (edited mainly in Polish) had played a special role in the 80-ties because of being published beyond the censure; now this time is over. After a four-year gap it resurrected in an English version to enable contacts with "paleoentomologists" (in the above broad sense) all over the world. It is thought as an ordinary newsletter, but definitely devoid of any formality.

The costs of production of the issues are not very high, but I would not like to send the newsletter to people who do not like to read it. Please let me know (in any form) whether you have received this copy and whether you would like to get further ones. Please inform me about your scientific or other interest; correct the address.

J. Koteja

Preliminary mailing list

Persons interested in fossil insects, amber and inclusions, mineralogy, geology and paleontology, evolution, phylogeny and classification, zoogeography etc. or simply in the "Inclusion" as a newsletter, are included in the list. Obviously, the list is based on some form of friendship and already existing personal contacts among the "paleoentomologists". Some new names certainly will be added to the list, others will be deleted.

The names are arranged alphabetically within countries; this will picture the geography of the paleoentomology. Addresses may not be complete and correct in all instances; please correct them.

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Notes