

## SHORT COMMUNICATIONS ON THE PROBLEMS OF THE EXINE NOMENCLATURE

M. KEDVES

(Received: January 24, 1985)

„The need and importance of establishing a simple, stringent and unambiguous terminology in palynology has lately attracted a great and renewed interest”. (NILSSON, 1978, p. 189). Some years earlier, in 1975 at the meeting of the working group „Pollen morphology and nomenclature” several concepts and proposals were discussed, and the important admitted resolutions are as follows; p. 87: „Layer: Regardless of the instruments used, the term nexine is retained in the cases where it is impossible to distinguish 2 strata, sole (= foot-layer, nexine 1, pedium) on one side, endexine (= nexine 2) on the other.”

„Stratum: 1/ Tectum is preferred to tegillum. 2/ Infratectum may be used whatever structure this stratum shows: alveolar, granular, columellar (columella is preferred to baculum regardless of the existence of a tectum or not). 3/ Sole is preferred to foot-layer. pedium, nexine 1.” The original proposal of the present writer was the following: KEDVES 1975, p. 71: „Ectexine: 1. tectum 2. infratectum (bacules, columellae, granules) 3. pedium (sole, foot layer, Basalschicht) Endexine”. Other important thing to be mentioned about the admitted resolution; p. 87: „The use of the prefixe 'micro' in order to describe details exclusively visible in the electron microscope is rejected.” In Lucknow, at the IV. I.C.P. a symposium of palynological terminology was held. NILSSON (1978) summarized the problems of the nomenclature of sporoderm as follows, p. 190: „Exine (pollen) — Exospore (*Pteridophyte* spores) Intine (pollen) — Endospore (*Pteridophyte* spores), Composite tectum, Structurate tectum, Infratectum, Pedium.” NILSSON and MULLER (1978), p. 57: „Terms with definitions and concepts recommended in Paris, 1975” “1. Columella, f. (plur. columellae) 2. Ectexine 3. Endexine 4. Exine 5. Infratectum, n. (plur. infratecta) 6. Intine 7. Layer 8. Nexine 9. Sexine 10. Sole (foot layer) Lat. solum, n. (plur. sola) (pedium not recommended; Pedius = roman family name) 11. Sporoderm 12. Stratum, n. (plur. strata) 13. Tectum, n. (plur. tecta) (complete, partial and absent) 14. Wall

Terms not recommended 1. Atectate 2. Baculum, n. (plur. bacula) 3. Endexine s. lat. and s. str 4. Micro- 5. Muritectate 6. Nexine-1 7. Pedium (cf. Pedius) 8. Semitectate 9. Subtectate 10. Tectate”

Finally, the aim of this short compilation is that unfortunately these basic recommendations and solutions are seemingly not sufficiently wide-spread among palynologists.

### References

- KEDVES, M. (1975): Sur les problèmes de la structure et de la nomenclature de l'exine des pollens des Angiospermes fossiles. — Soc. bot. Fr., Coll. Palynologie, 1975. 69–73.
- NILSSON, S. (1978): Symposium palynological terminology: Conclusions. — IV. Int. Palynol. Conf., Lucknow (1976–77) 1, 189–190.
- NILSSON, S. and MULLER, J. (1978): Recommended palynological terms and definitions. — Grana 17, 55–58.