

Case 2805***Ptychagnostus* Jaekel, 1909 and *Glyptagnostus* Whitehouse, 1936 (Trilobita): proposed conservation of accepted usage**

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Abstract. The purpose of this application is to conserve in their accepted usage the generic names of two Cambrian trilobites, *Ptychagnostus* Jaekel, 1909 and *Glyptagnostus* Whitehouse, 1936. Through an original printing error *Ptychagnostus* could be interpreted in a manner different from that currently accepted and that interpretation would impinge on the concept of *Glyptagnostus*.

1. In 1909 Jaekel wrote a paper *Über die Agnostiden* in which he described a number of new genera. His paper was published in Volume 61 of *Zeitschrift der Deutschen Geologischen Gesellschaft. Abhandlungen*. The first 21 pages (pp. 380–400) of his paper were printed in Part 3 of the volume and the final page (p. 401) was carried over to Part 4. However, it is clear that a printing error occurred since there is a non-sequitur between pages 399 and 400. As it stands, text of the genus *Agnostus* with its listed species (p. 399) runs into text (p. 400) listing another group of species belonging to a genus which has as its designated type *Agnostus punctuosus* Angelin, 1852 (p. 8) sensu Tullberg, 1880. This second group of species includes *Agnostus reticulatus* Angelin, 1852 (p. 8) which is illustrated (p. 400, fig. 19) as representative of this group. The figure is entitled '*Ptychagnostus reticulatus* Ang. nach Tullberg'; this is the first mention of the generic name *Ptychagnostus*. The first four lines on page 401 read '*Ptychagnostus* n.g. Mit doppelten Nebenloben des Kopfschildes und radialen Falten oder unregelmässigen Höckern auf den Genae und meist nach den Pleuren des Schwanzschildes'. These four lines should have been printed at the top of page 400.

2. Acceptance of the text as printed would have the following implications:

- (a) *Ptychagnostus* would belong to the family LEIAGNOSTIDAE Jaekel, 1909; this was clearly not intended since it would place a highly scrobiculate (pitted) and 'en grand tenue' (strongly ornamented) species in a family that is characterised by effacement (non-ornamentation) (see Rushton, 1966, p. 35).
- (b) *Ptychagnostus reticulatus* Angelin would be the type species of *Ptychagnostus* by monotypy. Vogdes (1917, p. 44) cited *P. reticulatus* as the type species, although, as pointed out by Robison (1984, p. 12), Vogdes later changed his mind and (1925, p. 111) ascribed *Agnostus punctuosus* as the type species.
- (c) As pointed out by Morris (1988, p. 195), *Glyptagnostus* Whitehouse, 1936 (p. 101) would 'become a junior subjective synonym of *Ptychagnostus* and the genus group formerly accepted as *Ptychagnostus* would require a replacement name'. *Glyptagnostus* is based on *G. toreuma* Whitehouse, 1936 (p. 102), shown

by Westergård (1947, p. 5) to be synonymous with *Agnostus reticulatus* Angelin (= *Ptychagnostus reticulatus* sensu Jaekel, 1909) (see discussion in Kobayashi (1949, p. 1), Öpik (1961a, p. 428; 1961b, p. 76; 1963, p. 38), Palmer (1962, p. 15), Shergold (1982, p. 23)).

3. The current concept and established usage of the nominal genera *Ptychagnostus* and *Glyptagnostus* are based upon acceptance that the type species of *Ptychagnostus* is *Agnostus punctuosus* (e.g. Harrington et al., 1959, p. 179; Robison, 1984, p. 12; Laurie, 1988, p. 171; Shergold, Laurie & Sun, 1990, p. 39). This application is designed to stabilise this usage.

4. Another complication arising from the split of Jaekel's paper relates to the date of publication of p. 401 which is printed as the first page of vol. 61, part 4 (for October, November and December 1909). However, Morris (1988, p. 195) asserts that p. 401 was published in 1910 but does not give any evidence. His claim appears to be based on the library accessions list printed on p. 483 and said to be for the year 1909, on the membership list of the Deutsche geologische Gesellschaft for 1 January 1910 printed on p. 494 of part 4 and on the date stamp of 16 February 1910 for receipt of the part at the British Museum (Natural History). On the other hand, some evidence for publication of p. 401 in 1909 is provided by the title sheet for the entire volume which was issued with part 4 and bears the legend 'Berlin 1909', in contrast to that for the subsequent volume (vol. 62 for 1910) which reads 'Berlin 1911'. In addition to the generic description of *Ptychagnostus*, there are three new taxa established on p. 401 (*Miagnostus*, *Leiagnostus* and *Leiagnostus erraticus*) which have always been attributed to 1909. In view of the uncertain nature of Morris's evidence and the complication that would be created by acceptance of 1910 as the publication date for p. 401, it is desirable for the Commission to rule that it be taken as published in the same year as the preceding 21 pages of the same paper.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the paper *Über die Agnostiden* by Jaekel be treated:
 - (a) as though printed so that the definition of *Ptychagnostus* on p. 401 appeared at the top of p. 400;
 - (b) as having been published in its entirety in 1909;
- (2) to confirm that the type species of *Ptychagnostus* Jaekel, 1909 is *Agnostus punctuosus* Angelin, 1852 by original designation;
- (3) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Ptychagnostus* Jaekel, 1909 (gender: masculine), type species by original designation *Agnostus punctuosus* Angelin, 1852 by original designation as confirmed in (2) above;
 - (b) *Glyptagnostus* Whitehouse, 1936 (gender: masculine), type species by original designation *Glyptagnostus toreuma* Whitehouse, 1936;
- (4) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *punctuosus* Angelin, 1851 as published in the binomen *Agnostus punctuosus* (specific name of the type species of *Ptychagnostus* Jaekel, 1909);
 - (b) *toreuma* Whitehouse, 1936 as published in the binomen *Glyptagnostus toreuma* (specific name of the type species of *Glyptagnostus* Whitehouse, 1936);

- (5) to place on the Official List of Works Approved as Available for Zoological Nomenclature *Über die Agnostiden* by O. Jaekel (1909).

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