

CHUANGIA WALCOTT, 1911, PROPOSED VALIDATION
UNDER THE PLENARY POWERS; SHANTUNGIA WALCOTT,
1905, PROPOSED ADDITION TO THE OFFICIAL LIST
(TRILOBITA). Z.N.(S.)635

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The application has two purposes: first, to seek the validation of the generic name *Chuangia* Walcott, 1911 in place of *Schantungia* Lorenz, 1906, and secondly to propose that the generic name *Shantungia* Walcott, 1905, be placed on the Official List.

2. The generic name *Schantungia* was introduced by Lorenz, 1906, *Z. deutsch. geol. Ges.*, vol. 58(1), p. 79, for a new genus of Cambrian trilobites with four originally included species, two of which were new; *S. buchrukeri* Lorenz, 1906 was placed first in the work. The name was derived from the Chinese province then customarily spelt in German 'Schantung'. No type species was fixed by Lorenz, and no subsequent designation is known.

3. Walcott, 1911, *Smiths. misc. Colls*, vol. 57(4), p. 72, considered *Schantungia* Lorenz, 1906, the spelling of which he misquoted as '*Shantungia*', to be a junior homonym of the name that he had introduced in 1905 (*Proc. U.S. nat. Mus.*, vol. 29 (1415), p. 87) variously as *Shangtungia* and *Shantungia*, for a different Cambrian trilobite. He proposed *Chuangia* as a replacement name, but designated *Ptychoparia? batia* Walcott, 1905 as type species of the genus, and this was accepted by C. Lochman Balk, 1959, *Treatise invert. Paleontol.*, vol. O, p. 313. Walcott's 1911 action is, however, clearly invalid on three grounds: (1) following Article 56 of the Code, *Schantungia* is not a homonym of either *Shantungia* Walcott, 1905, or *Shangtungia* Walcott, 1905; (2) he designated as type species of the genus renamed *Chuangia* a species that was not among the originally included species of *Schantungia*; (3) he synonymised one of those species, *S. buchrukeri*, with his species, *Chuangia nitida*, described as new in 1911 (p. 85) but did not use the valid senior synonym for it. This erroneous procedure was followed by Resser, 1942, *Smiths. misc. Colls* vol. 101(15) p. 11.

4. *Chuangia* has been used in preference to *Schantungia* since 1934 in the following works: Reed, 1934; Kobayashi, 1934,

1937, 1960, 1967; Sun, 1935; Resser & Endo, 1937; Fromaget, 1941; Resser, 1942; Endo, 1944; Hupé, 1953; Lu Yen-hao, 1957; Bell, 1957; Chien Yi-yuan, 1958; Wang, 1958; Lochman Balk, 1959; Chernysheva, 1960; Chu Chao-ling, 1960; Stocklin *et al.*, 1964; Lu, Chang *et al.*, 1965; Cochen, 1967, 1968; Palmer, 1968; Kushan, 1973; Schrank, 1974, 1975; Lisogor, 1977; Zhou Tun-mei *et al.*, 1977 (a list of these references is held in the file in the Commission's Secretariat). No example has been traced of the subsequent use of *Schantungia*, nor any type species-fixation for the genus. In view of the general acceptance of *Chuangia* with *Ptychoparia? batia* as its type species, it is considered to be in the interests of nomenclatural stability to preserve this usage. The valid name *Chuangia buchruckeri* (Lorenz, 1906) was used in preference to *C. nitida* Walcott, 1911, by Lu, Chang *et al.*, 1965, *Zhongguo Gemenlei Huashi: Zhongguo Sanyechong* [Fossils of each group of China: Chinese Trilobites], vol. 1, p. 364, not following Walcott, 1911.

5. The second part of this application concerns the relative status of the two spellings *Shantungia* and *Shangtungia* Walcott, 1905.

6. Walcott, 1905, *Proc. U.S. nat. Mus.* vol. 29 (1415), p. 87) proposed *Shangtungia* for a new trilobite genus and designated *Shangtungia spinifera* Walcott, 1905 as its type species. On the next line the species was described as '*Shantungia spinifera* new species'. Elsewhere in the same paper (pp. 5, 9) it was listed as *Shangtungia spinifera*. In 1911 (*Smiths. misc. Colls.*, vol. 57(4), p. 72) and again in 1913 (*Publ. Carnegie Inst.*, No. 54, Research in China, vol. 3, pp. II, V, 6, 7, 10, 53, 147, 148, 250, 255, 369) Walcott listed the genus as *Shantungia*. The 1913 work included a synonymy reference to his 1905 paper and contained a revised description of the genus and of its type species, and, in terms of Article 32b of the Code, is interpreted as action by a first reviser. *Shantungia* thereby became the valid spelling of the generic name.

7. Howell & Moore, 1959, *Treatise invert. Paleontol.*, vol. O, p. 248, adopted the spelling *Shangtungia* (although *Shantungia* was used for the illustration on p. O. 246), but this appears to be an exception to current usage, for the spelling *Shantungia* has been used in the following works: Resser & Endo, 1937; Resser, 1942; Endo, 1953; Kobayashi, 1956, 1960; Chang, 1957, 1959; Lu Yen-hao, Chang *et al.*, 1965; Öpik, 1967.

8. The International Commission on Zoological Nomenclature is therefore asked:

(1) to use its plenary powers

(a) to suppress the generic name *Schantungia* Lorenz, 1906, for the purposes of the Law of Priority but

- not for those of the Law of Homonymy;
- (b) to set aside all designations of type species hitherto made for the nominal genus *Chuangia* Walcott, 1911, and to designate *Ptychoparia? batia* Walcott, 1905, as type species of that genus;
- (2) to place on the Official List of Generic Names in Zoology:
 - (a) *Chuangia* Walcott, 1911 (gender: feminine), type species, by designation under the plenary powers in (1)(b) above, *Ptychoparia? batia* Walcott, 1905;
 - (b) *Shantungia* Walcott, 1905 (gender: feminine), type species, by original designation, *Shantungia spinifera* Walcott, 1905 (a correct original spelling by virtue of the first reviser action of Walcott, 1913);
 - (3) to place on the Official List of Specific Names in Zoology:
 - (a) *batia* Walcott, 1905, as published in the binomen *Ptychoparia? batia* (specific name of type species of *Chuangia* Walcott, 1911);
 - (b) *spinifera* Walcott, 1905, as published in the binomen *Shantungia spinifera* (specific name of type species of *Shantungia* Walcott, 1905);
 - (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology:
 - (a) *Schantungia* Lorenz, 1906, as suppressed under the plenary powers in (1)(a) above;
 - (b) *Shangtungia* Walcott, 1905, an incorrect original spelling by virtue of the first reviser action of Walcott, 1913.





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