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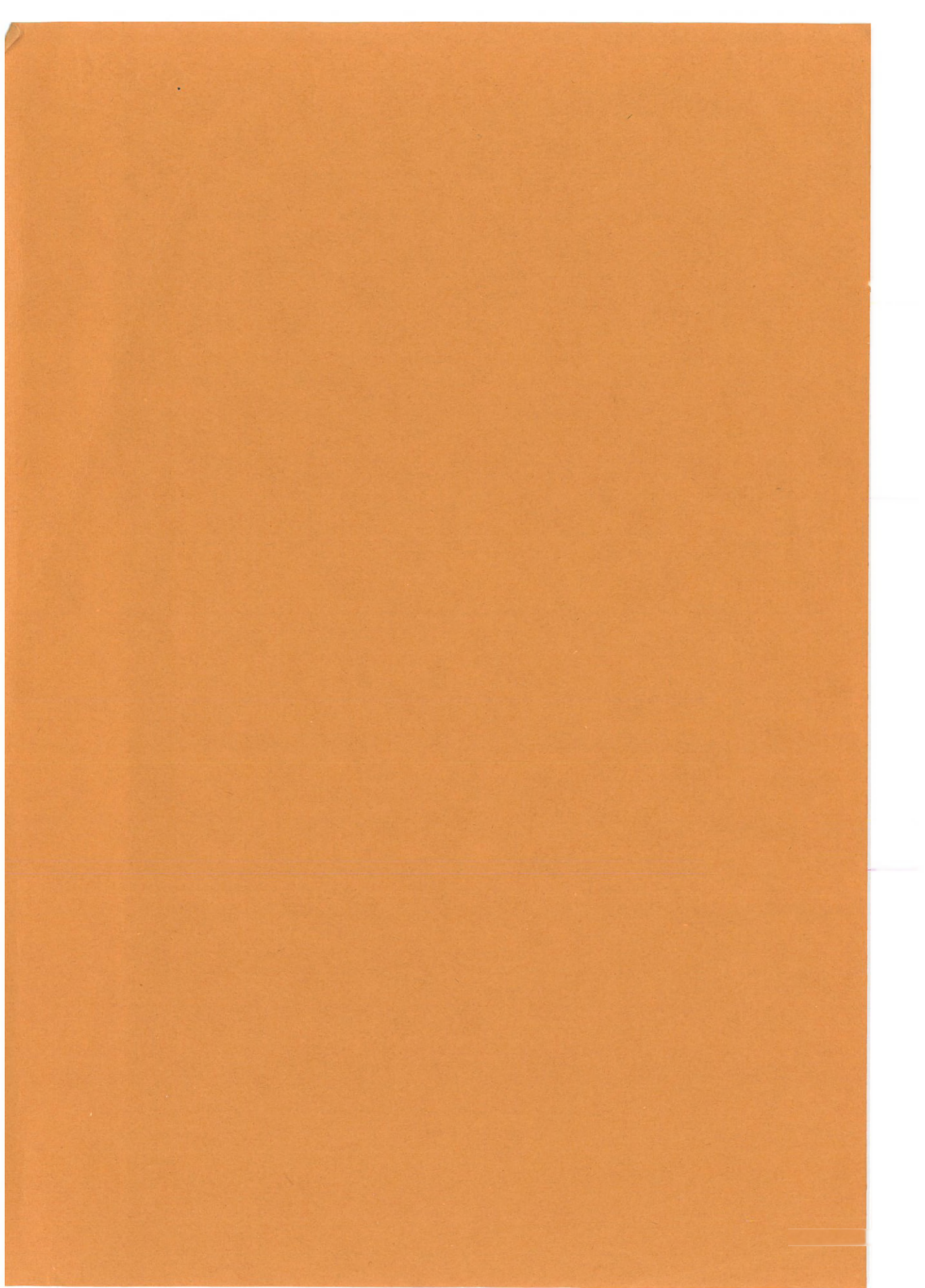
SEPARATE
OF A PAPER PUBLISHED BY
THE INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE
ON BEHALF OF
THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

This paper contains an application relating to a question of zoological nomenclature which has been submitted to the International Commission on Zoological Nomenclature for decision. As a preliminary, this paper has been published in the "Bulletin of Zoological Nomenclature". The volume in which this paper was so published and the date of publication are shown at the foot of the first page of the paper.

2. The object of publishing applications in the "Bulletin of Zoological Nomenclature" is to provide an opportunity to interested specialists to submit comments to the Commission on the action recommended in the applications so published. For this purpose an interval of six months from the date of publication is allowed to elapse before the International Commission starts to vote on any given application.

3. One of the principal objects of the International Trust for Zoological Nomenclature in providing authors with separates (off-prints) of applications published in the "Bulletin" is to secure a rapid and wide distribution of those applications among interested specialists, in order to provide to those specialists an opportunity of commenting upon the applications in question before a decision is reached by the International Commission.

4. Recipients of separates of papers published in the "Bulletin" are therefore particularly requested to furnish their comments on the action proposed as soon as possible to FRANCIS HEMMING, Secretary to the International Commission on Zoological Nomenclature, 28 Park Village East, Regent's Park, London, N.W.1, England.



**PROPOSED USE OF THE PLENARY POWERS TO SECURE THAT
THE GENERIC NAME "ANODONTA" LAMARCK, 1799 (CLASS
PELECYPODA) SHALL BE THE OLDEST AVAILABLE NAME
FOR THE GENUS CONCERNED (PROPOSED VALIDATION OF A
RULING GIVEN IN "OPINION" 94)**

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(Commission Reference : Z.N.(S.) 1222)

The purpose of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers for the purpose of suppressing the generic name *Glochidium* Rathke, 1797 (Class Pelecypoda), in order thereby to render the well-known generic name *Anodonta* Lamarck, 1799, the oldest available name for the genus concerned. The present problem came to my notice when preparing the chapter on the Unionacea for the *Treatise on Invertebrate Paleontology*. When I made a preliminary communication on this subject to the Office of the Commission, I was informed by Mr. Hemming that the matter was even more urgent and important than I had supposed, for the name *Anodonta* Lamarck had been placed on the *Official List of Generic Names in Zoology* as long ago as 1926 (*Smithson. misc. Coll.* 73(4) : 12—13). Mr. Hemming explained that the arrangements for the publication of the *Official List* in book form are now well advanced and, at his request, I have included in the present application certain additional matters which it is necessary should be dealt with before the *Official List* is published in the foregoing manner. The facts of this case are set out below.

2. The well-known nominal genus *Anodonta* Lamarck, 1799, has as its type species by monotypy the nominal species *Mytilus cygneus* Linnaeus, 1758. As already explained, this generic name has been placed on the *Official List* by the Ruling given in *Opinion* 94. The gender of this generic name has been determined by the Commission as the feminine gender by the Ruling given in *Direction* 42 (1956, *Ops. Decls. int. Comm. zool. Nomen.* 1 (D) : 153—170). The specific name *cygneus* Linnaeus, 1758, the specific name of the type species of *Anodonta* Lamarck, has been placed on the *Official List of Specific Names in Zoology* by a Ruling given in *Opinion* 336 (1955, *loc. cit.* 10 : 77—108).

3. Two years prior to the publication of the name *Anodonta* by Lamarck in 1799, Rathke published an article entitled "Om Dam-Muslingen" ("Skrivter af Naturhistorie-Selskaber", Copenhagen, 4 : 139—179, pls. 8—10). In this paper on page 166 he established a new genus and nominal species to which he gave the names *Glochidium* and *Glochidium parasiticum* respectively. At the

time that he published the above paper Rathke, as is well known, considered that his *Glochidium parasiticum* was a parasite found in the outer gills of *Mytilus anatinus* Linnaeus (= *Anadonta anatina* (Linnaeus)). However, one year later in a second paper on the pond mussel (*loc. cit.* (2) : 173—185) Rathke realised that his nominal species *Glochidium parasiticum* was no parasite but was the immature stage of *Mytilus anatinus* Linnaeus. There is, therefore, no doubt whatever that the name *Glochidium parasiticum* Rathke, 1797, applies to the same species as *Mytilus anatinus* Linnaeus, 1758, and therefore that the generic name *Anodonta* Lamarck, 1799, is a junior subjective synonym of the generic name *Glochidium* Rathke.

4. The generic name *Anodonta* Lamarck is, however, found in every local fauna and in every textbook of zoology. It has, moreover, been on the *Official List* without challenge for over 30 years. In the course of over 150 years this name has attained a vast popularity and it would be a manifest contravention of the principles of stability in nomenclature if this name were now to be rejected in favour of the name *Glochidium* Rathke which, as has been explained, has never been used as a generic name since the time of its original publication. The word "Glochidium" is, however, well known as a technical designation for the parasitic larval stage of species of this group and while it would be most confusing now to introduce this name as a generic name, it is desirable that this word should be retained as a technical designation for the stage referred to above.

5. I accordingly now ask the International Commission to use its Plenary Powers for the purpose of suppressing the generic name *Glochidium* Rathke, 1797, for the purposes of the Law of Priority but not for those of the Law of Homonymy. It is desirable, however, that the Commission should give a Ruling that the foregoing action shall not affect the availability of the word "Glochidium" as a technical designation to denote the parasitic larval stage of species of the genus *Anodonta* Lamarck, 1799. A Ruling in this sense would follow the precedent set by the Commission by the Ruling given in its *Opinion* 129 when, after having suppressed the generic name *Bipinnaria* Sars, 1835, it gave a Ruling that this action left unaffected the use of the term "Bipinnaria" as a technical designation to denote developmental stages.

6. The specific name *parasiticum* Rathke, 1797, as published in the combination *Glochidium parasiticum*, is junior by many years to its subjective synonym *anatinus* Linnaeus, 1758, as published in the combination *Mytilus anatinus*. Accordingly, it is not proposed that any action should be taken in regard to this name. Under the Completeness-of-Opinion-Rule, I should, however, have asked that the specific name *anatinus* Linnaeus, 1758, as published in the above combination should be placed on the *Official List of Specific Names in Zoology* if it were not for the fact that, as I am informed by Mr. Hemming, this action has already been taken by the International Commission by the Ruling given in its *Opinion* 336.

7. In addition, there are four Invalid Emendations of the name *Anodonta* Lamarck, 1799. Of these, one *Anodontigenus* [Renier], [1804], has, I am informed, already been placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* by the Ruling given in *Opinion* 427. The others, which should now also be placed on the *Official Index*, are the following : (i) *Anodon* Oken, 1815 (*Lehrbuch Naturgesch.* 3(1) : 326) (invalid also because published in a work rejected for nomenclatorial purposes by the Ruling given in *Opinion* 417) ; (ii) *Anodontes* Cuvier, 1817 (*Règne Anim.* 2 : 472) ; (iii) *Anodonte* Fischer de Waldheim, 1823 (*Mém. Soc. imp. Nat. Moscou* 6 : 230). There are also several junior homonyms of *Anodonta* Lamarck, 1799, but no action requires to be taken in regard to these, as they have, I am informed, already been placed on the *Official Index* by the Ruling given in *Direction* 72 (now in the press).

8. For the reasons set out in the present application the International Commission on Zoological Nomenclature is now asked :—

- (1) to use its Plenary Powers to suppress the generic name *Glochidium* Rathke, 1797, for the purposes of the Law of Priority but not for those of the Law of Homonymy ;
- (2) to give a Ruling that the action taken under (1) above shall not affect the availability of the word " *Glochidium* " as a technical designation to denote the parasitic larval stage of species of the genus *Anodonta* Lamarck, 1799 ;
- (3) to confirm the entry of the name *Anodonta* Lamarck, 1799, on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion* 94 ;
- (4) to place the under-mentioned generic names on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—
 - (a) *Glochidium* Rathke, 1797, as proposed in (1) above to be suppressed under the Plenary Powers, the entry so to be made to be endorsed as specified in (2) above ;
 - (b) the under-mentioned Invalid Emendations of *Anodonta* Lamarck, 1799 :—
 - (i) *Anodon*, Oken, 1815 (a name invalid also under the Ruling given in *Opinion* 417) ;
 - (ii) *Anodontes* Cuvier, 1817 ;
 - (iii) *Anodonte* Fischer de Waldheim, 1823.

