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**OPINIONS AND DECLARATIONS  
RENDERED BY THE INTER-  
NATIONAL COMMISSION ON  
ZOOLOGICAL NOMENCLATURE**

**VOLUME 1. SECTION E**

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

**Secretary to the International Commission on Zoological Nomenclature**

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## FOREWORD

The present Section contains a further instalment of *Directions* rendered by the International Commission on Zoological Nomenclature embodying decisions taken in connection with the review of the entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 undertaken in pursuance of a General Directive issued to it by the Thirteenth International Congress of Zoology, Paris, 1948, as extended by a further such Directive issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953. The immediately preceding Sections (Section C and Section D) of the present volume contained 41 instalments of the prescribed review (Section C, 23 ; Section D, 18)—all in the form of *Directions*. In addition, prior to the commencement of the above Sections, thirty-four (34) instalments had been published in other volumes of the *Opinions and Declarations* Series. Of these, thirty-two (32) had been rendered as *Opinions* and two (2) as *Directions*<sup>1</sup>. Accordingly, at the time of the commencement of the present Section the total number of instalments already published amounted to seventy-five (75). Thus, when account is taken of the twenty-three (23) instalments contained in the present Section, the total number of instalments of the prescribed review so far published is seen to amount to ninety-eight (98). Since the completion of the present Section a number of further *Directions* dealing with similar problems have been rendered by the Commission. These are now in the press and will be published as units of a new Section—Section F—of the present Volume. During the period covered by the publication of the present Section a decision was taken by the International Commission that the printing of the *Official Lists* and *Official Indexes* for publication as soon as

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<sup>1</sup> The thirty-two *Opinions* and two *Directions* here referred to were enumerated respectively in Footnote 1 and 2 to the Foreword to Section D of the present volume.

possible in book-form should be put in hand forthwith, notwithstanding the fact that in a limited number of cases this would involve the temporary withdrawal from the *Official List* of entries made in the period up to the end of 1936 which were known to be defective but which involved problems which had not as yet been fully elucidated. At the same time it was decided to press on as rapidly as possible with the consideration of all other problems affecting entries already made on the *Official Lists*. It is the *Directions* arising out of decisions taken by the Commission on cases falling in this latter group which will be published in the forthcoming Section F of Volume 1 of the present Series. That Section will be the last to appear before the publication of the *Official Lists* in book-form. It will also be the last of the Sections which collectively will constitute Volume 1 of the *Opinions and Declarations* Series, it having been decided that decisions on the limited number of entries on the *Official List* made before the end of 1936 which, as explained, it has been found necessary temporarily to withdraw will, when taken, be published as *Directions* in whatever may at the time in question be the current volume of the *Opinions and Declarations* Series.

2. The present Section (Section E of Volume 1) was published in 24 Parts. It contains 475 pages (T.P.—XV, 1—460). It is thus of substantially the same size as the preceding Section (Section D) of the present volume.

3. Twenty-three *Directions* are included in the present instalment. Of these, two (*Directions* 61, 71) are concerned exclusively with the determination of the gender to be attributed to two generic names placed on the *Official List of Generic Names in Zoology* before the end of 1936; four (*Directions* 63, 66, 72, 76) contain Rulings on various miscellaneous matters relating to the names of genera of particular Phyla of invertebrates on which decisions were needed as preliminary to the publication of the foregoing *Official List* in book-form; four (*Directions* 64, 67, 73, 77) contain Rulings placing on the *Official List of Specific Names in Zoology* the specific names of the type species of genera in the Phyla referred to above, the names of which were placed on the *Official List of Generic Names in Zoology* in the period in



question. The remaining thirteen *Directions* are concerned with individual cases, eleven with particular names and two (*Directions* 65, 85) with the status of particular books. In six of these thirteen cases (*Directions* 60, 69, 78, 83, 84, 86) the International Commission found it necessary to make use of its Plenary Powers. Those Powers were used also in the case of the two *Directions* concerned with the determination of genders referred to above. The eleven *Directions* dealing with individual names (*Directions* 60, 68, 69, 74, 78, 80, 81, 82, 83, 84, 86) contain Rulings which validate, correct or complete entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936.

4. The cases dealing with individual names in the present Section, including those relating to the determination of the gender of generic names, amount to twenty-one ; of these, six contain Rulings relating to the names of taxa belonging to more than one Class of the Animal Kingdom. In addition, one of the *Directions* (*Direction* 85) dealing with the status of a particular book dealt also with names belonging to a particular Class of the Animal Kingdom. The total number of cases involved in these Rulings given in the *Directions* comprised in the present Section is thus sixty-one. The distribution by Classes of these cases is shown in the following table :—

TABLE 1

**Distribution of cases by Classes in the  
Animal Kingdom**

| <i>Name of Class</i> | <i>Number of applications</i> |
|----------------------|-------------------------------|
| Rhizopoda            | 1                             |
| Ciliata              | 1                             |
| Mastigophora         | 2                             |
| Sporozoa             | 1                             |
| Neosporidia          | 2                             |
| Hydrozoa             | 2                             |
| Anthozoa             | 1                             |
| Cestoda              | 2                             |
| Trematoda            | 2                             |
| Nematoda             | 2                             |
| Nematomorpha         | 2                             |
| Acanthocephala       | 1                             |
| Hirudinea            | 2                             |
| Chaetopoda           | 1                             |
| Crustacea            | 7                             |
| Diplopoda            | 2                             |
| Trilobita            | 1                             |
| Insecta              | 4                             |
| Arachnida            | 3                             |
| Gastropoda           | 2                             |
| Scaphopoda           | 2                             |
| Pelecypoda           | 2                             |
| Cephalopoda          | 2                             |
| Brachiopoda          | 1                             |
| Holothuroidea        | 1                             |
| Crinoidea            | 3                             |
| Urochorda            | 3                             |
| Pisces               | 1                             |
| Aves                 | 5                             |
| Total                | 61                            |

5. The *Directions* comprised in the present Section contain 313 additions to the *Official Lists* and *Official Indexes*. Of the entries so made 310 are in respect of names of taxa of various categories and three are of the titles of zoological works. Particulars of the additions so made are given in the following table :—

TABLE 2

**Additions to the “ Official Lists ” and “ Official Indexes ” respectively**

| <i>Category</i>    | <i>Official Lists</i> | <i>Official Indexes</i> |
|--------------------|-----------------------|-------------------------|
| Specific Names     | 137                   | 43                      |
| Generic Names      | 9                     | 117                     |
| Family-group Names | 3                     | 1                       |
| Titles of Works    | 3                     | —                       |
| Totals             | 152                   | 161                     |

6. The subject index to the present Section of Volume 1 is of the same scope as, and follows the style of the corresponding index for the preceding Section (Section D) of this volume. For

X

the preparation of the Index to the present Section the Commission is once again indebted to Mrs. J. H. Newman.

**FRANCIS HEMMING**

*Secretary to the International Commission  
on Zoological Nomenclature*

28 Park Village East,  
Regent's Park,  
LONDON, N.W.1.

*20th December, 1957.*

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# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

**VOLUME 1. SECTION E. Part E.1. Pp. 1—12**

## **DIRECTION 60**

Designation under the Plenary Powers of a type species for the genus *Scorpio* Linnaeus, 1758 (Class Arachnida) in harmony with accustomed usage and suppression under the same Powers of the specific name *europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus* (amendment of a Ruling given in *Opinion 104*)

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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## DIRECTION 60

DESIGNATION UNDER THE PLENARY POWERS OF A TYPE SPECIES FOR THE GENUS "SCORPIO" LINNAEUS, 1758 (CLASS ARACHNIDA) IN HARMONY WITH ACCUSTOMED USAGE AND SUPPRESSION UNDER THE SAME POWERS OF THE SPECIFIC NAME "EUROPAEUS" LINNAEUS, 1758, AS PUBLISHED IN THE COMBINATION "SCORPIO EUROPAEUS" (AMENDMENT OF A RULING GIVEN IN "OPINION" 104)

**RULING :—**(1) Under the Plenary Powers :—

- (a) All selections of type species for the genus *Scorpio* Linnaeus, 1758, made prior to the present Ruling are hereby set aside and the nominal species *Scorpio maurus* Linnaeus, 1758, is hereby designated to be the type species of the foregoing genus ;
- (b) The specific name *europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus*, is hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy.

(2) The following revised entry relating to the generic name *Scorpio* Linnaeus, 1758, is hereby inserted in the *Official List of Generic Names in Zoology* in substitution for the entry relating to the foregoing generic name made thereon by the Ruling given in *Opinion* 104 :—

**Scorpio** Linnaeus, 1758 (gender : masculine) (type species, by designation under the Plenary Powers in (1)(a) above : *Scorpio maurus* Linnaeus, 1758)

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1151 :—

*maurus* Linnaeus, 1758, as published in the combination *Scorpio maurus* (specific name of type species of *Scorpio* Linnaeus, 1758).

(4) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name No. 381 :—

*europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus*, as suppressed under the Plenary Powers in (1)(b) above

(5) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name No. 149 :—

SCORPIONIDAE (correction of SCORPIONIDES) [Leach], [1814] (type genus : *Scorpio* Linnaeus, 1758)

(6) The under-mentioned family-group name is hereby placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* with the Name No. 185 :—

SCORPIONIDES [Leach], [1814] (an Invalid Original Spelling for SCORPIONIDAE).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The subject matter of the present *Direction* is the amendment of the entry relating to the generic name *Scorpio* Linnaeus, 1758 (Class Arachnida) made on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion* 104 for the purpose of providing the genus so named with a recognisable type species. The proposals on which the decision recorded in the present *Direction* was based were submitted to the International Com-

mission on Zoological Nomenclature by the Secretary in the following paper on 12th February 1955 :—

**Proposed use of the Plenary Powers to suppress the specific name "europaeus" Linnaeus, 1758, as published in the combination "Scorpio europaeus" and to designate for the genus "Scorpio" Linnaeus, 1758 (Class Arachnida) a type species in harmony with accustomed usage (amendment of a Ruling given in "Opinion" 104)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The object of the present application is to ask the Commission to use its Plenary Powers to such extent as may be necessary to provide the genus *Scorpio* Linnaeus, 1758, with a type species in harmony with accustomed usage and thus to make it possible to substitute a revised entry relating to this name on the *Official List of Generic Names in Zoology* for the very unsatisfactory entry made under the Ruling given in *Opinion* 104 when this name was first placed on the *Official List*. The facts of this case are set out in the following paragraphs.

2. When Linnaeus established the genus *Scorpio* (1758, *Syst. Nat.* (ed. 10) 1 : 624), he placed in the genus so named five nominal species, of which the first species was *Scorpio maurus* (: 624) and the fifth was *Scorpio europaeus* (: 625). Linnaeus neither designated nor indicated a type species for this genus. The first author to select one of the originally included species to be the type species of this genus was Latreille who in 1810 (*Consid. gén. Anim. Crust. Arachn. Ins.* : 424, 118) so selected what he called "*europaeus* Fab.", i.e. *europaeus* Linnaeus, since Fabricius never himself published such a name, this name as used by him being attributed to Linnaeus.

3. By the Ruling given in its *Opinion* 104 (1928, *Smithson. misc. Coll.* 73 (No. 5) : 25—28) the Commission placed the name *Scorpio* Linnaeus, 1758, on the *Official List of Generic Names in Zoology* with *Scorpio europaeus* Linnaeus, 1758, as type species.

4. When in 1943 I was engaged in a preliminary survey of the entries so far made on the *Official List* with the object of estimating the amount of further work which would be required before the *List* as so far compiled could be published in book-form, I encountered difficulties in regard to the name *Scorpio* Linnaeus, as I could not find that the name *europaeus* Linnaeus was currently applied by specialists in this group to a species of this genus. I accordingly consulted Mr. R. J. Whittick who was then in charge of this part of the British Museum

collection. Owing to the difficulties at that time arising from war conditions (including the evacuation of much of the library at the Museum), Mr. Whittick was unable to clear up this matter but he confirmed that it would require further examination before the *Official List* was published. Following the resumption in the autumn of 1954 of active steps to prepare the *Official List* for publication I consulted Dr. G. O. Evans who by this time had succeeded Mr. Whittick in charge of the Arachnida at the British Museum. In a letter dated 12th January 1955, Dr. Evans kindly furnished the following information :—

*Type species of "Scorpio" Linnaeus*

- (1) The name *europaeus* Linnaeus, 1758, is not currently applied to a species of *Scorpio* Linnaeus.
- (2) In recent specialist works on the Scorpiones the species *Scorpio maurus* Linnaeus is considered the type species of *Scorpio*. I am in full agreement with this.
- (3) The genus *Scorpio* is placed in the family SCORPIONIDAE Pocock, 1893 (ref. : "Notes on the Classification of Scorpions, followed by some observations upon synonymy, with descriptions of new Genera and Species". Pocock, Oct. 1893, *Ann. Mag. nat. Hist.* (6) 12 : 305).

5. I have since (10th February 1955) had a further discussion in regard to this case with Dr. Evans who confirms that the unfortunate type selection by Latreille, by reason of its early date (1810), is without doubt the first such selection to be made for this genus and informs me that the first author to accept as its type species *Scorpio maurus* Linnaeus, the species now universally accepted as such was Karsch (F.) (1879, "Scorpionologische Beiträge", *Mitt. Münch. Ent. Ver.* 3 : 20). Dr. Evans considers that in the interests of maintaining stability and of putting an end to the unfortunate situation created by Latreille's type selection for the genus *Scorpio* Linnaeus, it is desirable that the Commission should use its Plenary Powers for the purpose of setting aside that selection and validating *Scorpio maurus* Linnaeus as the type species of this genus. Dr. Evans is of the opinion that it is desirable that the same opportunity should be taken to suppress the specific name *europaeus* Linnaeus, 1758, this ancient *nomen dubium* serving no useful purpose, representing, as it does, a potential threat to stability in nomenclature in view of the risk that at any time some author might claim to be able to identify the species so named by applying to this name the provisions of Article 31 of the *Règles*.

6. It is clear from the information kindly furnished by Dr. Evans that the entry on the *Official List* relating to the name *Scorpio* Linnaeus must be revised before the *List* can be published in book-form and that



the revision of that entry by the use of the Plenary Powers to designate *Scorpio maurus* Linnaeus to be the type species of this genus would accord with the current practice of specialists in this group and thus promote stability, while at the same time providing the nominal genus *Scorpio* Linnaeus with a determinate content which by reason of having an unrecognisable species as its type species it at present lacks. I agree also with Dr. Evans that it is very desirable that the potentially dangerous *nomen dubium europaeus* Linnaeus should be suppressed and thus deprived of power to cause confusion in the nomenclature of this group at some later time.

7. I accordingly recommend the Commission :—

(1) to use its Plenary Powers :—

(a) to set aside all selections of type species for the nominal genus *Scorpio* Linnaeus, 1758, made prior to the Ruling now asked for and, having done so, to designate *Scorpio maurus* Linnaeus, 1758, to be the type species of this genus ;

(b) to suppress the specific name *europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus* for the purposes of the Law of Priority but not for those of the Law of Homonymy ;

(2) to substitute the following entry for the name *Scorpio* Linnaeus, 1758, on the *Official List of Generic Names in Zoology* for that made therefor by the Ruling given in *Opinion 104* :—

*Scorpio* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 624 (gender : masculine) (type species, by designation under the Plenary Powers under (1)(a) above) : *Scorpio maurus* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 624) ;

(3) to place the under-mentioned specific name on the *Official List of Specific Names in Zoology* :—*maurus* Linnaeus, 1758, as published in the combination *Scorpio maurus* (specific name of type species of *Scorpio* Linnaeus, 1758) ;

(4) to place the under-mentioned specific name on the *Official Index of Rejected and Invalid Specific Names in Zoology* :—*europaeus* Linnaeus, 1758, as published in the combination *Scorpio europaeus* and as suppressed under the Plenary Powers under (1)(b) above ;

(5) to place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology* :—SCORPIONIDAE Pocock, 1893 (type genus : *Scorpio* Linnaeus, 1758).

## II. THE SUBSEQUENT HISTORY OF THE PRESENT CASE

**2. Registration of the present application :** When the problems regarding the generic name *Scorpio* Linnaeus dealt with in the present *Direction* first came to light in 1943 in the course of a preliminary survey of the entries on the *Official List of Generic Names in Zoology* made in the period up to the end of 1936 carried out by Mr. Hemming as Secretary to the Commission, the papers in regard to this matter were placed in the Commission's File Z.N.(G.) 15, the File at that time in use for documents concerned with problems arising in connection with existing entries on the *Official List*. When later, Mr. Hemming completed his investigations in regard to the present case, the papers were registered separately, being allotted for this purpose the Registered Number Z.N.(S.) 567.

**3. Support received before publication of the present application :** As noted in paragraphs 4 and 5 of the application submitted in the present case the action there recommended had the support of the following specialists :—R. J. Whittick (*British Museum (Natural History), London*) and of his successor in charge of the Arachnida Collection in that Museum, Dr. G. O. Evans.

**4. Publication of the present application :** The present application was sent to the printer on 17th February 1955 and was published on 31st May 1955 in Part 6 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 173—175).

**5. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 31st May 1955 (a) in Part 6 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's application was published) and (b) to the other

prescribed serial publications. In addition, such Notice was given also to four general zoological serial publications.

**6. Support received from Otto Kraus (Forschungs-Institut und Natur-Museum Senckenberg, Frankfurt a.M., Germany) :** On 30th July 1955, Dr. Otto Kraus (*Forschungs-Institut und Natur-Museum Senckenberg, Frankfurt a.M., Germany*) addressed the following letter of support to the Office of the Commission (Kraus, 1955, *Bull. zool. Nomencl.* **11** : 296) :—

Bei dieser Gelegenheit möchte ich Ihnen noch mitteilen, dass ich Ihre Ausführungen über die Gattung *Scorpio* und ihre typische Art mit grossem Interesse gelesen habe. Ihr Antrag ist nachdrücklich zu unterstützen, zumal es sich bei *Scorpio europaeus* Linnaeus, 1758, um eine völlig unsichere Art handelt.

**7. No objection received :** No objection to the action proposed in the present case was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**8. Issue of Voting Paper V.P.(56)10 :** On 29th February 1956 a Voting Paper (V.P.(56)10) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the generic name *Scorpio* Linnaeus, 1758, as set out in Points (1) to (5) in paragraph 7 on page 175 of Volume 11 of the *Bulletin of Zoological Nomenclature*" [i.e. in the paragraph numbered as above in the application reproduced in the first paragraph of the present *Direction*].

**9. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 29th May 1956.

**10. Particulars of the Voting on Voting Paper V.P.(56)10 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(56)10 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-five (25) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Hering ; Lemche ; do Amaral ; Bradley (J.C.) ; Vokes ; Mayr ; Dymond ; Bodenheimer ; Mertens ; Sylvester-Bradley ; Esaki ; Boschma ; Key ; Hankó ; Riley ; Prantl ; Stoll ; Hemming ; Cabrera ; Tortonese ; Bonnet ; Jaczewski ; Kühnelt ; Miller ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned :*

None.

**11. Declaration of Result of Vote :** On 30th May 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(56)10, signed a Certificate that the Votes cast were as set out in paragraph 10 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**12. Substitution on the “ Official List ” of an older reference for the family-group name based on the generic name “ Scorpio ” Linnaeus, 1758, than the oldest such reference previously ascertained :** On 20th November 1956, Mr. Hemming, as Secretary executed the following Minute directing (a) the substitution on the *Official List of Family-Group Names in Zoology* of the name SCORPIONIDAE (correction of SCORPIONIDES) [Leach], [1814], for the later name SCORPIONIDAE Pocock, 1893, which it had previously been proposed to enter on that *List* as the oldest family-

group name based on the foregoing generic name, and (b) the addition of the name SCORPIONIDES [Leach], [1814] (an Invalid Original Spelling for SCORPIONIDAE) to the *Official Index of Rejected and Invalid Family-Group Names in Zoology* :—

**Substitution on the “ Official List ” of an older reference for  
the family-group name SCORPIONIDAE than the  
oldest such reference previously ascertained**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

At the time of the grant by the International Commission of approval to the proposal relating to the generic name *Scorpio* Linnaeus, 1758, and associated names submitted in connection with Voting Paper V.P.(56)10, it was believed that the above generic name had first been taken as the base for a family-group name by Pocock in 1893. The routine check-up of references carried out in the Office of the Commission in preparation for the *Direction* required to give effect to the decision taken by the Commission in this matter has, however, disclosed the fact that a family-group name based on the foregoing generic name was published by Leach as early as 1814 in an anonymous paper in Volume 7 (: 412) of Brewster's *Edinburgh Encyclopaedia*, where, however, it was published in the incorrect form SCORPIONIDES.

2. Accordingly, as Secretary, I now direct :—

- (a) that in lieu of the entry of the name SCORPIONIDAE Pocock, 1893, previously proposed to be made on the *Official List of Family-Group Names in Zoology* there be made the entry :— SCORPIONIDAE (correction of SCORPIONIDES) [Leach], [1814] ;
- (b) that there be made the following entry on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* :— SCORPIONIDES [Leach], [1814] (an Invalid Original Spelling for SCORPIONIDAE).

**13. Preparation of the Ruling given in the present “ Direction ” :** On 5th December 1956, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(56)10 ; subject to the adjustment of the reference to be cited for the family-group name based on the generic name *Scorpio* Linnaeus, 1758, in accordance with the

directions given in the Minute executed by the Secretary on 20th November 1956, the text of which has been reproduced in the immediately preceding paragraph of the present *Direction*.

**14. Original References :** The following are the original references for the specific names placed on the *Official List* and *Official Index* established for the recording of the names of taxa belonging to the foregoing category by the Ruling given in the present *Direction* :—

*europaeus*, *Scorpio*, Linnaeus, 1758, *Syst. Nat.* (ed.10) **1** : 625

*maurus*, *Scorpio*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 624

**15.** The following are the original references for the family-group name placed on the *Official List of Family-Group Names in Zoology* and on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* respectively by the Ruling given in the present *Direction* :—

SCORPIONIDAE (correction of SCORPIONIDES) [Leach], [1814], in Brewster's *Edinburgh Ency.* **7** : 412

SCORPIONIDES [Leach], [1814] (an Invalid Original Spelling for SCORPIONIDAE)

**16.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**17.** The present *Direction* shall be known as *Direction Sixty* (60) of the International Commission on Zoological Nomenclature.

DONE in London, this Fifth day of December, Nineteen Hundred and Fifty-Six.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.2. Pp. 13—20

## DIRECTION 61

Determination under the Plenary Powers of the gender to be attributed to the generic name *Varuna* Milne Edwards (H.), 1830 (Class Crustacea, Order Decapoda) (supplement to *Opinion* 85)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 61

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History),  
Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CARRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,  
Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt  
a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu  
Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August  
1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans,  
Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y.,  
U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation,  
Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November  
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,  
Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)



## DIRECTION 61

**DETERMINATION UNDER THE PLENARY POWERS OF THE GENDER TO BE ATTRIBUTED TO THE GENERIC NAME "VARUNA" MILNE EDWARDS (H.), 1830 (CLASS CRUSTACEA, ORDER DECAPODA) (SUPPLEMENT TO "OPINION" 85)**

**RULING** :—It is hereby ruled under the Plenary Powers that the generic name *Varuna* Milne Edwards (H.), 1830 (Class Crustacea, Order Decapoda), a name placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 85, is to be treated as being of the feminine gender.

### I. THE STATEMENT OF THE CASE

On 13th April 1955, Mr. Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, prepared for the consideration of the Commission the following paper in which he drew attention to certain difficulties which had

been encountered in assigning to the generic name *Varuna* Milne Edwards (H.), 1830 (Class Crustacea, Order Decapoda), a name placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 85, a gender which would be both correct and also consistent with established practice :—

**Proposed use of the Plenary Powers to determine for the generic name  
“Varuna” Milne Edwards (H.), 1830 (Class Crustacea, Order  
Decapoda) a gender in harmony with accustomed usage**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The purpose of the present application is to ask the Commission to use its Plenary Powers for the purpose of designating for the generic name *Varuna* Milne Edwards (H.), 1830 (Class Crustacea, Order Decapoda) a gender in harmony with accustomed usage. This generic name was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 85. It is necessary therefore that an appropriate gender should be attributed to this name as soon as possible, in order that the preparation of the *Official List* for publication in book-form may not be held up on this account. The facts of this case are set out below.

2. The word “Varuna” is a non-Classical word and by reason of its “-a” termination, it was allotted a feminine gender by Mr. F. J. Lelievre in his report on genders, on the analogy of Latin nouns belonging to the first declension. The literature shows that from Milne Edwards onwards, authors have treated the generic name *Varuna* as being feminine in gender.

3. Professor H. Boschma (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*), while agreeing that it was desirable that the feminine gender should be attributed to this name in view of the fact that it is always treated as being of that gender, was the first to point out that this word should probably be treated as being masculine in gender, it being likely that, in naming this crab, Milne Edwards selected for its name “the name of the god of the waters, the Indian Neptune of Hindoo mythology” (letter dated 16th February 1955). Reference to Milne Edwards’s original description fully bears out Professor Boschma’s hypothesis, for in that description Milne Edwards wrote : “Le nom de Varuna, par lequel nous le designons génériquement, est celui de l’un des genies des eaux dans la mythologie indienne.” It is clear therefore that under the *Règles* this generic name is masculine in gender.

4. I have consulted both Dr. A. Fenner Chace (*United States National Museum, Washington, D.C., U.S.A.*) and Dr. Isobel Gordon (*British Museum (Natural History), London*) on this case. Dr. Chace, while stating that it seems to matter little which gender is assigned to it, says that this name "would be more readily acceptable to all carcinologists if it is treated as feminine" (letter of 22nd March 1955). Dr. Gordon replied (12th April 1955) that, in her opinion, "*Varuna* should be retained as feminine. Even Milne Edwards used the combination *Varuna litterata* from the start".

5. In the circumstances, I recommend that, either under the normal Plenary Powers procedure or under those Powers through the modified procedure recommended in Application Z.N.(S.) 938<sup>1</sup>, the Commission should direct that the generic name *Varuna* Milne Edwards (H.), 1830, be treated as being of the feminine gender.

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's application the question of the gender to be attributed to the generic name *Varuna* Milne Edwards was allotted the Registered Number Z.N.(S.) 943.

**3. Publication of the present application :** The present application was sent to the printer on 21st April 1955 and was published on 7th July in the same year in Part 8 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 263—264).

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<sup>1</sup> The application here referred to was published in the same Part of the *Bulletin* (1955, *Bull. zool. Nomencl.* **11** : 256—259) as that in which appeared the present application relating to the generic name *Varuna* Milne Edwards, 1830.

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 7th July 1955 (a) in Part 8 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's application was published) and (b) to the other prescribed serial publications. In addition such Notice was given also to four general zoological serial publications in Europe and America.

**5. No objection received :** No objection to the action proposed in the present case was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**6. Issue of Voting Paper V.P.(56)21 :** On 25th April 1956 a Voting Paper (V.P.(56)21) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the gender to be attributed to the generic name *Varuna* Milne Edwards (H.), 1830, as set out in paragraph 5 of page 264 of Volume 11 of the *Bulletin of Zoological Nomenclature*" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**7. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 25th July 1956.

**8. Particulars of the Voting on Voting Paper V.P.(56)21 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(56)21 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Boschma ; Vokes ; Hering ; Bodenheimer ; Prantl ; Jaczewski ; Esaki ; do Amaral ; Hankó ; Dymond ; Bonnet ; Key ; Mayr ; Lemche ; Riley ; Mertens ; Cabrera ; Stoll ; Sylvester-Bradley ; Tortonese ; Hemming ; Miller ;

(b) *Negative Votes, one (1) :*

Kühnelt ;

(c) *On Leave of Absence, one (1) :*

Bradley (J.C.) ;

(d) *Voting Papers not returned :*

None.

**9. Declaration of Result of Vote :** On 26th July 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(56)21, signed a Certificate that the Votes cast were as set out in paragraph 8 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**10. Preparation of the Ruling given in the present " Direction " :**  
On 25th January 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(56)21.

**11.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**12.** The present *Direction* shall be known as *Direction Sixty-One (61)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Fifth day of January, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.3. Pp. 21—60**

## **DIRECTION 63**

Completion and in certain cases correction of entries relating to the names of genera belonging to the Class Insecta made in the *Official List of Generic Names in Zoology* in the period up to the end of 1936

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

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(16th December 1954)



## DIRECTION 63

### COMPLETION AND IN CERTAIN CASES CORRECTION OF ENTRIES RELATING TO THE NAMES OF GENERA BELONGING TO THE CLASS INSECTA MADE IN THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936

**RULING** :—(1) It is hereby directed that there be added to the entry on the *Official List of Works Approved as Available for Zoological Nomenclature* relating to Westwood's *Introduction to a modern Classification of Insects* and the accompanying *Synopsis of the Genera of British Insects*, made by the Ruling given in *Direction 32*, the under-mentioned particulars as to the instalments in which the several portions of the *Introduction* and *Synopsis* were published and the dates on which such instalment was published :—

*Dates of publication of J. O. Westwood's "Introduction to a modern Classification of Insects" and of the "Synopsis of the Genera of British Insects" published therewith*

| Part No. | "Introduction" | "Synopsis" | <i>Date of<br/>Publication<br/>(date on cover)</i> |
|----------|----------------|------------|----------------------------------------------------|
| 1        | 1 : 1—48       | : 1—16     | [May 1838]                                         |
| 2        | 1 : 49—112     |            | [June 1838]                                        |
| 3        | 1 : 113—160    | : 17—32    | [July 1838]                                        |
| 4        | 1 : 161—224    |            | [Aug. 1838]                                        |
| 5        | 1 : 225—288    |            | [Sept. 1838]                                       |
| 6        | 1 : 289—352    |            | [Oct. 1838]                                        |
| 7        | 1 : 353—400    | : 33—48    | [Nov. 1838]                                        |
| 8        | 1 : 401—462    |            | [Dec. 1838]                                        |
| 9        | 2 : 1—128      |            | [Jan. 1839]                                        |
| 10       | 2 : 129—192    |            | [Feb. 1839]                                        |
| 11       | 2 : 193—224    |            | [March 1839]                                       |
| 12       | 2 : 225—256    |            | [April 1839]                                       |
| 13       | 2 : 257—288    | : 49—80    | [June 1839]                                        |
| 14       | 2 : 289—352    |            | [Nov. 1839]                                        |
| 15       | 2 : 353—400    | : 81—96    | [Jan. 1840]                                        |
| 16       | 2 : 401—587    | : 97—154   | [June 1840]                                        |

(2) In the light of the Ruling given in (1) above and of the fact that Westwood's selection of *Blatta lapponica* Linnaeus, 1758, to be the type species of the genus *Ectobius* Stephens, 1835 (Class Insecta, Order Orthoptera) was made on page 44 of the *Synopsis of the Genera of British Insects*, it is hereby directed that in the entry relating to the above generic name made on the *Official List of Generic Names in Zoology* (hereinafter referred to as the "Official List") by the Ruling given in *Opinion* 104, the date "[November 1838]" be substituted for the date "1840" as that on which Westwood's selection of the above species to be the type species of the genus *Ectobius* Stephens was published.

(3) It is hereby directed that the entry on the *Official List* relating to the generic name *Periplaneta* Burmeister, 1838 (Class Insecta, Order Orthoptera) made by the Ruling given in *Opinion* 104 the notation "type species, by selection by Kirby (W.F.) (1890)" be substituted for the incorrect notation "t[type by] s[subsequent] d[esignation] (1903)".

(4) It is hereby directed that in the entry on the *Official List* relating to the generic name *Forficula* Linnaeus, 1758 (Class Insecta, Order Dermaptera) made by the Ruling given in *Opinion* 104 the incorrect notation "t[type by] a[bsolute] t[autonymy] 1758" be deleted and that in its place there be inserted the revised notation "type species, by selection by Latreille, 1810)."

(5) The portion of the entry relating to the generic name *Pediculus* Linnaeus, 1758 (Class Insecta, Order Anoplura), in which it was stated that the nominal species *Pediculus humanus* Linnaeus, 1758; the type species of the above genus, was later restricted to the form *capitis*, made on the *Official List* by the Ruling given in *Opinion* 104 is hereby deleted and the following revised entry is hereby inserted in its place: "*Pediculus humanus* Linnaeus, 1758, as restricted to the form referred to by Linnaeus as living "in vestamentis humanis" (i.e. the form commonly

known as *corporis*) by Latreille as First Reviser in [1803—1804] (*Hist. nat. gén. partic. Crust. Ins.* 8 : 93—94).

(6) The portion of the entry relating to the method by which the type species of the genus *Reduvius* Fabricius, 1775 (Class Insecta, Order Hemiptera) was determined under Article 30 of the *Règles* where it was incorrectly stated that the nominal species *Reduvius fuscipes* Fabricius, 1787, was selected as the type species of the above genus by some unspecified author in 1803, made by the Ruling given in *Opinion* 104 is hereby deleted from the *Official List* and the ensuing statement that *Cimex personatus* Linnaeus, 1758, was selected as the type species by Latreille (1810 : 433, 256) is hereby confirmed.

(7) It is hereby directed that in respect of each of the generic names specified in the following list, in which has been incorporated the relevant Rulings given in (2) to (6) above, the particulars shown in Column (2) as to the method by which the type species of the genus concerned was determined under Article 30 of the *Règles* be inserted in the *Official List* in the entries severally concerned :—

*Name of Genus*

*Entry relating to the determination of the type species of genus specified in Col. (1) to be inserted in the "Official List of Generic Names in Zoology"*

(1)

(2)

*Lepisma* Linnaeus, 1758 by subsequent selection by Latreille, 1810 *Consid. gén. Anim. Crust. Arach. Ins.* : 423, 113

*Blatta* Linnaeus, 1758 by subsequent selection by Latreille, 1810, *Consid. gén. Anim. Crust. Arach. Ins.* : 433, 246

| <i>Name of Genus</i>                   | <i>Entry relating to the<br/>determination of the type<br/>species of genus specified in<br/>Col. (1) to be inserted in the<br/>"Official List of Generic<br/>Names in Zoology"</i> |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)                                    | (2)                                                                                                                                                                                 |
| <i>Ectobius</i> Stephens,<br>1835      | by subsequent selection by Westwood, [1838], <i>Introd. mod. Class. Ins.</i> 2, Syn. gen. Brit. Ins. : 44                                                                           |
| <i>Gryllus</i> Linnaeus, 1758          | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 248                                                                                 |
| <i>Periplaneta</i> Burmeister,<br>1833 | by subsequent selection by Kirby (W.F.), 1890, <i>Proc. roy. Soc. Dublin</i> (n.s.) 6 : 562                                                                                         |
| <i>Pulex</i> Linnaeus, 1758            | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 444, 409                                                                                 |
| <i>Pediculus</i> Linnaeus,<br>1758     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 423, 114                                                                                 |
| <i>Forficula</i> Linnaeus,<br>1758     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 246                                                                                 |
| <i>Anthocoris</i> Fallén,<br>1814      | by subsequent selection by Westwood, 1840, <i>Introd. mod. Class. Ins.</i> 2, Syn. Gen. Brit. Ins. : 122                                                                            |
| <i>Nabis</i> Latreille,<br>[1802—1803] | by subsequent selection by Westwood, 1840, <i>Introd. mod. Class. Ins.</i> 2, Syn. Gen. Brit. Ins. : 120                                                                            |

*Name of Genus*

*Entry relating to the determination of the type species of genus specified in Col. (1) to be inserted in the "Official List of Generic Names in Zoology"*

(1)

(2)

*Notonecta* Linnaeus,  
1758

by subsequent selection by Latreille, 1810, *Consid. gén. Anim. Crust. Arach. Ins.* : 434, 261

*Reduvius* Fabricius,  
1775

by subsequent selection by Latreille, 1810, *Consid. gén. Anim. Crust. Arach. Ins.* : 433, 256

(8) It is hereby directed that the date "[1802—1803]" be substituted for the date "1802" as the date of publication of the generic name *Nabis* Latreille (Class Insecta, Order Hemiptera) in the entry relating to that name made on the *Official List* by the Ruling given in *Opinion* 104.

(9) It is hereby directed that the date "[1804—1805]" be substituted for the date "1805" as the date of publication of the binomen *Nycteribia pedicularia* Latreille, the name of the type species of *Nycteribia* Latreille, 1796 (Class Insecta, Order Diptera), in the entry made on the *Official List* relating to the above generic name by the Ruling given in *Opinion* 128.

(10) The title of the work by Laporte (F.L.de) entitled *Essai d'une Classification systématique de l'Ordre des Hémiptères (Heteroptères)* is hereby placed on the *Official List of Works Approved as Available for Zoological Nomenclature* with the Title Number 28, subject to the endorsement (a) that the first sheet, comprising pages 1—16, is to be treated as having been published in [1832] and (b) that, in the absence of any further Ruling made in the light of additional information later received, the remaining portion of this work is to be treated as having been published in [1833].

(11) In the light of (10) above the date "1832" assigned to the generic name *Triatoma* Laporte (Class Insecta, Order Hemiptera) in the entry on the *Official List* made by the Ruling given in *Opinion* 104 is hereby confirmed, subject to the qualification that this date be cited in square brackets.

(12) The statement that the type species of the genus *Cephenemyia* Latreille, 1818 (Class Insecta, Order Diptera) is "*trompe* Fab.", i.e. *Oestrus trompe* as interpreted by Fabricius in 1794, included in the entry relating to the above generic name made on the *Official List* by the Ruling given in *Opinion* 106 is hereby deleted from that entry and it is hereby directed that in its place there be inserted a statement that the type species of this genus is the nominal species *Oestrus trompe* Modeer, 1786.

(13) It is further directed that the subjective synonymisation of the name *Oestrus nasalis* Linnaeus, 1758, with the name *Oestrus trompe* Modeer, 1786, the name of the type species of the genus *Cephenemyia* Latreille, be deleted from the entry relating to the name *Cephenemyia* Latreille made on the *Official List* by the Ruling given in *Opinion* 106.

(14) It is hereby directed that the subjective synonymisation of the name *Oestrus intestinalis* De Geer, 1776, with the name *Oestrus equi* Clark, 1796, the name of the type species of the genus *Gasterophilus* Leach, 1817 (Class Insecta, Order Diptera), be deleted from the entry relating to the generic name *Gasterophilus* Leach made on the *Official List* by the Ruling given in *Opinion* 106.

(15) It is hereby directed that the entry relating to the generic name *Anthocoris*, made on the *Official List* by the Ruling given in *Opinion* 104, be amended :—

- (a) by the deletion therefrom of all references to the nominal species *Cimex sylvestris* Linnaeus, 1758 ;

(b) by the attribution of this generic name to Fallén and not to his pupil Rodhe.

(16) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

(a) *Ligyrocoris* Stål, 1872 (gender : masculine) (type species, by monotypy : *Cimex sylvestris* Linnaeus, 1758) (Class Insecta, Order Hemiptera) (Name No. 1185) ;

(b) *Prostemma* Laporte (F.L.de), [1832] (gender : neuter) (type species, by monotypy : *Reduvius guttula* Fabricius, 1787) (Class Insecta, Order Hemiptera) (Name No. 1186) ;

(c) *Sastragala* Amyot & Serville, 1843 (gender : feminine) (type species, by monotypy : *Cimex uniguttatus* Donovan, (1804)) (Class Insecta, Order Hemiptera) (Name No. 1187) ;

(d) *Elasmucha* Stål, 1864 (gender : feminine) (type species, by monotypy : *Cimex ferrugatus* Fabricius, 1787) (Class Insecta, Order Hemiptera) (Name No. 1188)

(17) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

(a) *nasalis* Linnaeus, 1758, as published in the combination *Oestrus nasalis* (Name No. 1265) ;

(b) *haemorrhoidalis* De Geer, 1776, as published in the combination *Oestrus haemorrhoidalis* (Name No. 1266) ;

- (c) *sylvestris* Linnaeus, 1758, as published in the combination *Cimex sylvestris* (specific name of type species of *Ligyrocoris* Stål, 1872) (Name No. 1267) ;
- (d) *guttula* Fabricius, 1787, as published in the combination *Reduvius guttula* (specific name of type species of *Prostemma* Laporte, [1832]) (Name No. 1268) ;
- (e) *uniguttatus* Donovan, (1804), as published in the combination *Cimex uniguttatus* (specific name of type species of *Sastragala* Amyot & Serville, 1843) (Name No. 1269) ;
- (f) *ferrugatus* Fabricius, 1787, as published in the combination *Cimex ferrugatus* (specific name of type species of *Elasmucha* Stål, 1864) (Name No. 1270).

(18) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (i) *Acanthia* Fabricius, 1775 (a junior objective synonym of *Cimex* Linnaeus, 1758) (Name No. 904) ;
- (ii) *Cephalemyia* Latreille, 1818 (a junior objective synonym of *Oestrus* Linnaeus, 1758) (Name No. 905) ;
- (iii) *Cephalemya* Rondani, 1856 (an Erroneous Subsequent Spelling for *Cephalemyia* Latreille, 1818) (Name No. 906) ;
- (iv) *Cephalomyia* Agassiz (J.L.R.), 1846 (an Invalid Emendation of *Cephalemyia* Latreille, 1818) (Name No. 907) ;



- (v) *Cephenemya* Robineau-Desvoidy, 1830 (an Erroneous Subsequent Spelling for *Cephenemyia* Latreille, 1818) (Name No. 908) ;
- (vi) *Cephenomyia* Agassiz (J.L.R.), 1846 (an Invalid Emendation of *Cephenemyia* Latreille, 1818) (Name No. 909) ;
- (vii) *Clinocoris* Fallén, 1829 (a junior objective synonym of *Cimex* Linnaeus, 1758) (Name No. 910) ;
- (viii) *Clinocoris* Hahn, 1834 (a junior homonym of *Clinocoris* Fallén, 1829) (Name No. 911) ;
- (ix) *Clinophilus* Blanford, 1903 (an Invalid Emendation of *Klinophilos* Kirkaldy, 1899) (Name No. 912) ;
- (x) *Conochinus* Dohrn, 1859 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833]) (Name No. 913) ;
- (xi) *Conorchinus* Spinola, 1852 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833]) (Name No. 914) ;
- (xii) *Conorhinus* Laporte, [1833] (a junior objective synonym of *Triatoma* Laporte, [1832]) (Name No. 915) ;
- (xiii) *Conorrhinus* Jeannel, 1919 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833]) (Name No. 916) ;
- (xiv) *Gastrophilus* Agassiz (J.L.R.), 1846 (an Invalid Emendation of *Gasterophilus* Leach, 1817) (Name No. 917) ;

- (xv) *Hylophila* Kirby & Spence, 1828 (a junior objective synonym of *Anthocoris* Fallén, 1814) (Name No. 918) ;
- (xvi) *Ryparocoris* Schummel, [1827] (a junior objective synonym of *Reduvius* Fabricius, 1775) (Name No. 919) ;
- (xvii) *Hypoderma* Geoffroy St. Hilaire (I.), 1828 (a junior homonym of *Hypoderma* Latreille, 1818) (Name No. 920) ;
- (xviii) *Klinophilos* Kirkaldy, 1899 (a junior objective synonym of *Cimex* Linnaeus, 1758) (Name No. 921) ;
- (xix) *Lepisina* Radermacher, 1779 (an Erroneous Subsequent Spelling for *Lepisma* Linnaeus, 1758) (Name No. 922) ;
- (xx) *Metastemma* Amyot & Serville, 1843 (an Invalid Emendation of *Prostemma* Laporte, [1832]) (Name No. 923) ;
- (xxi) *Notonecia* Fabricius, 1798 (an Erroneous Subsequent Spelling for *Notonecta* Linnaeus, 1758) (Name No. 924) ;
- (xxii) *Oedemagenus* Berthold, 1827 (an Invalid Emendation of *Oedemagena* Latreille, 1818) (Name No. 925) ;
- (xxiii) *Phthirius* Burmeister, 1835 (an Invalid Emendation of *Pthirus* [Leach], [1815]) (Name No. 926) ;
- (xxiv) *Pthirus* Leach, 1817 (an Invalid Emendation of *Pthirus* [Leach], [1815]) (Name No. 927) ;
- (xxv) *Phyllocoris* Costa, 1847 (a junior objective synonym of *Anthocoris* Fallén, 1814) (Name No. 928) ;

- (xxvi) *Postemma* Dufour, 1834 (an Invalid Emendation of *Prostemma* Laporte, [1832]) (Name No. 929) ;
- (xxvii) *Prostemma* Kiritschenko, [1909] (an Erroneous Subsequent Spelling for *Prostemma* Laporte, [1832]) (Name No. 930).

(19) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :

- (a) *equi* Clark, 1797, as published in the combination *Oestrus equi* (a junior primary homonym of *equi* Fabricius, 1787, as published in the combination *Oestrus equi*) (Name No. 390) ;
- (b) *equi* Fabricius, 1787, as published in the combination *Oestrus equi*, as defined by the lectotype selected by Hemming in paragraph 17 in the application submitted in the present case<sup>1</sup> (a junior objective synonym of *nasalis* Linnaeus, 1758, as published in the combination *Oestrus nasalis*) (Name No. 391) ;
- (c) *erythrozonias* Gmelin, [1790], as published in the combination *Cimex erythrozonias* (a junior objective synonym of *rubrofasciatus* De Geer, 1773, as published in the combination *Cimex rubrofasciatus*) (Name No. 392) ;
- (d) *ferrugator* Fabricius, 1794, as published in the combination *Cimex ferrugator* (an Invalid Emendation of *ferrugatus* Fabricius, 1787, as published in the combination *Cimex ferrugatus*) (Name No. 393) ;
- (e) *inguinalis* [Leach], [1815], as published in the combination *Pthirus inguinalis* (a junior objective

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<sup>1</sup> See page 42 of the present *Direction*.

synonym of *pubis* Linnaeus, 1758, as published in the combination *Pediculus pubis*) (Name No. 394) ;

- (f) *rufofasciata* Van Duzee, 1917, as published in the combination *Triatoma rufofasciata* (an Erroneous Subsequent Spelling for *rubrofasciatus* De Geer, 1773, as published in the combination *Cimex rubrofasciatus*) (Name No. 395).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* embodies decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing and, where necessary, correcting, the entries in regard to the names of genera of the Class Insecta made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, this action being a necessary preliminary to the publication of the *Official List* in book form. The proposals upon which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 31st May 1956 in the following paper :—

**Proposed completion and correction of certain entries relating to the names of genera belonging to the Class Insecta made on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper contains particulars of various minor errors and omissions in entries relating to the names of genera of insects made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. Proposals are submitted for rectifying these defects.

2. The problems discussed in the present paper came to light in the course of work in the Office of the Commission in connection with the forthcoming publication of the *Official List* in book-form. In the subsequent investigations most valuable help has been received from a number of specialists, to whom the grateful thanks of the Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they held at the time when consultations took place and (b) of the Orders of insects, on the names of genera of which assistance has been afforded, are the following :—

W. E. China (*British Museum (Natural History), London*) (Hemiptera)

Tadeusz Jaczewski (*Polish Academy of Sciences, Institute of Zoology, Warsaw*) (Hemiptera)

Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts.*) (Diptera)

Frederick Laing (*British Museum (Natural History), London*) (Anoplura)

N. D. Riley (*British Museum (Natural History), London*) (Anoplura ; Dermaptera ; Orthoptera)

John Smart (*Department of Zoology, Cambridge University, Cambridge*) (Diptera)

B. P. Uvarov (*Director, Anti-Locust Research Centre, London*) (Dermaptera ; Orthoptera).

3. In the case of the names of genera of the Order Hemiptera particular reference must be made to an exceptionally important document received from Professor Jaczewski in October 1955 which contained a full review of all relevant particulars regarding the names concerned and which in addition contained in certain cases supplementary proposals on cognate matters. The information so furnished has been freely drawn upon in preparing the present paper, in so far as that information related to matters falling within the scope of the proposals now submitted.

4. The questions dealt with in the present paper fall into various well defined groups, such as : (i) the determination of the method by which type species were provided for genera ; (ii) the correction of erroneous dates assigned to names when placed on the *Official List* ; (iii) the elucidation of problems of subjective synonymy involved in additional references cited in the case of certain entries on the *Official List* and (iv) the addition of objectively invalid names to the *Official Indexes*. These matters are dealt with in turn in the following paragraphs.

(1) Proposed insertion in the "Official List" of particulars as to how the type species of certain genera were determined under Article 30 of the "Règles"

5. In the case of twelve out of the twenty-three generic names of insects placed on the *Official List* in the period up to the end of 1936, the entries then made on that *List* regarding the manner in which the type species of the genera concerned were determined under Article 30 of the *Règles* were either incomplete or incorrect. Amended particulars in regard to each of these generic names are given in Annexe 1 to the present paper. Notes are given in the following paragraphs regarding those names where the correction, as well as the completion of entries on the *Official List* is involved. All the errors concerned are in respect of entries on the *Official List* made by the Ruling given in *Opinion* 104.

6. "Ectobius" Stephens, 1835 : In *Opinion* 104 the method by which *Blatta lapponica* Linnaeus, 1758, became the type species of *Ectobius* Stephens was indicated by the formula "tsd. (1840)", i.e. the above species was selected as the type species by some unspecified author in 1840. The reference intended is no doubt to Westwood's *Synopsis of the Genera of British Insects* which though separately paged, was published as a part of (i.e. as a supplement to) that author's *Introduction to a modern Classification of Insects*, for on page 44 of the *Synopsis* the above species was selected as the type species of the genus *Ectobius*. There has been a considerable amount of misunderstanding regarding the date of publication of the *Synopsis*, which is commonly treated as having been published in 1840, the year in which was completed the publication of Volume 2 of the *Introduction* of which it is commonly treated as forming a part. Griffin has shown (1932, *Proc. ent. Soc. Lond.* 6 (3) : 83—84), however, (a) that the *Synopsis* was issued in instalments with parts of the *Introduction*, (b) that the first instalment of the *Synopsis* was published in May 1838 with the first Part of Volume 1 of the *Introduction*, and (c) that the last instalment of the *Synopsis* was published in June 1840 with the last Part (Part XVI) of Volume 2 of the *Introduction*. The evidence collected by Griffin shows that the contents of the Sheets composing the *Synopsis* and their dates of publication were as follows :—Sheet B (: 1—16), May 1838 ; Sheet C (: 17—32), July 1838 ; Sheet D (: 33—48), November 1838 ; Sheets E and F (: 49—80), June 1839 ; Sheet G (: 81—96), January 1840 ; Sheets H to L (: 97—154), June 1840. It will be seen from the above particulars that Westwood's type selection for *Ectobius* Stephens was published in [1838]. The entry on the *Official List of Generic Names in Zoology* should be emended accordingly. The titles of Westwood's *Introduction* and accompanying *Synopsis* have been placed on the *Official List of Works Approved as Available for Zoological Nomenclature* as Title No. 22 by the Ruling given in *Direction* 32. The entry so made should be supplemented

by the addition of the foregoing particulars as to the dates of publication of the instalments in which the *Synopsis* was published. The opportunity should be taken also for inserting in the *Official List* the particulars ascertained by Griffin as to the dates of publication of the Parts in which the *Introduction* itself was published. These particulars are as follows: Volume 1 (Parts I—VIII), 1838: Part I (: 1—48), May 1838; Part II (: 49—112), June 1838; Part III (: 113—160), July 1838; Part IV (: 161—224), August 1838; Part V (: 225—288), September 1838; Part VI (: 289—352), October 1838; Part VII (: 353—400), November 1838; Part VIII (: 401—462), December 1838. Volume 2 (Parts IX—XVI), 1839—1840: Part IX (: 1—128), January 1839; Part X (: 129—192), February 1839; Part XI (: 193—224), March 1839; Part XII (: 225—256), April 1839; Part XIII (: 257—288), June 1839; Part XIV (: 289—352), November 1839; Part XV (: 353—400), January 1840; Part XVI (: 401—587), June 1840.

7. “*Periplaneta*” **Burmeister, 1838**: In this case it was stated in *Opinion* 104 that the type species was selected under Rule (g) in Article 30 by some author in 1903. It has been impossible to trace any type selection for this genus in the above year, but this is of no consequence since an older type selection—made in 1890—has been found in the literature namely a selection by Kirby (W.F.) (*Proc. Roy. Soc. Dublin* (n.s.) 6 : 562).

8. “*Forficula*” **Linnaeus, 1758**: A twofold indication as to how the type species of this genus was determined was given in *Opinion* 104, namely (i) “tat” [type species, by absolute tautonymy] and (ii) “tsd. (1810)” [type species, by subsequent selection in 1810]. The first of these indications is incorrect, for Linnaeus in 1758 neither placed in this genus a species having the specific name “*forficula*” nor cited in the synonymy of any of the included species a pre-1758 univocal specific name consisting of the word “*forficula*”. The second of the indications cited in *Opinion* 104, which would have been unnecessary and incorrect if the type species of this genus had in fact been determined by absolute tautonymy under Rule (d) in Article 30, is in the circumstances correct, for it represents the manner in which the type species was actually determined. The date “1810” cited is correct, the type selection for this genus having been made in that year by Latreille in the *Consid. gén.* (: 433, 246).

9. “*Pediculus*” **Linnaeus, 1758**: Linnaeus placed thirty-nine species in this genus, the first being *Pediculus humanus* (: 610). Of this species Linnaeus wrote “*Habitat in capite & vestimentis humanis*”. In 1767 (*Syst. Nat.* (ed. 12) 1(2) : 1016) Linnaeus recognised that his *Pediculus humanus* of 1758 comprised two different forms but, although he gave brief descriptions of each, he did not give

a new name to either. In 1783 De Geer (*Abhandl. Gesch. Insekt.* : 30) introduced the trinominal designations *Pediculus humanus capitis* and *Pediculus humanus corporis* to denote these taxa. These terms have been correctly rejected as names in taxonomy, though they form a convenient method by which to refer colloquially to the two forms and are commonly so used in medical literature. The first binominal zoologist to distinguish these forms by giving a name to one, while restricting, as a First Reviser, the name *humanus* Linnaeus to the other, was Latreille ([1803—1804], *Hist. nat. gén. partic. Crust. Ins.* 8 : 93—94) who gave the new name *Pediculus cervicalis* (: 94) to the head louse, restricting *humanus* Linnaeus to the body louse. When we turn to *Opinion* 104, we find that, it is there correctly stated that the type species of the genus *Pediculus* was selected under Rule (g) in Article 30 by some author in 1810 (the formula used being “tsd. 1810”), i.e. by Latreille in the *Consid. gén.* (: 423, 114). We find also, however, that the author of the *Opinion* appears to have considered that the name *humanus* Linnaeus was correctly applicable to the head louse, the words used being “tsd. (1810) *humanus*, restricted later to syn. of tsd. (1915 ; 1916) *capitis*”. As shown above, this was incorrect and it will be necessary now to amend the entry on the *Official List* relating to the type species of *Pediculus* Linnaeus to make it clear that that species (*Pediculus humanus*) is to be interpreted in accordance with the restriction made by Latreille [1803—1804] as First Reviser. Although it is necessary that the entry in *Opinion* 104 should be corrected, the point is not of great practical significance as the head louse and the body louse are today commonly treated as no more than forms of a single species.

**10. “Reduvius” Fabricius, 1775 :** The type species of this genus is *Cimex personatus* Linnaeus, 1758, as was correctly stated in *Opinion* 104. This species became the type species by selection by Latreille in 1810 in the *Consid. gén.* (: 433, 256). This was briefly indicated in the above *Opinion* by the use of the formula (“tsd. 1810 . . .”, to which, however, three later dates were added quite unnecessarily. The point which calls for attention is the following further note added in the above *Opinion* : “tsd. by error (1803) *fuscipes*”. The species here referred to is *Reduvius fuscipes* Fabricius, 1787 (*Mantissa Ins.* 2 : 312), but, as will be obvious, that nominal species could not in any circumstances be the type species, since it was not established until twelve years after the first publication of the generic name *Reduvius*. The erroneous idea that this species was the type species of *Reduvius* is no doubt attributable, as Commissioner Jaczewski has suggested (in his communication of 12th October 1955, to which reference has been made in paragraph 3 above), to the fact that formerly the view was held by specialists that Fabricius should be regarded as having selected type species for genera in the work *Systema Rhyngotorum* of 1803 by repeating the generic diagnosis for one of the species then included in the genus concerned. All that is needed in the present context is to



delete from the *Official List* all reference to the reputed but non-existent selection of *Reduvius fuscipes* Fabricius as the type species of this genus.<sup>2</sup>

(2) Proposed correction of erroneous dates assigned to two names in the Class Insecta

11. "Nabis" Latreille: In *Opinion* 104 the date "1802" is attributed to this name. This is incorrect. The name *Nabis* was published in volume 3 of the *Hist. nat. gén. partic. Crust. Ins.*, the title page of which bears the date "An X" of the French Revolutionary Calendar. If this volume had in fact appeared in that period it would be necessary to treat it as having been published in "1801—1802" and this is no doubt what the author of this section of *Opinion* 104 thought had occurred, contenting himself, however, with citing the year "1802" in which the major part of "An X" fell. Griffin has shown (1938, *J. Soc. Bibl. nat. Hist.* 1 : 157), however, that the above volume was not published until "An XI", i.e. until some time in the period "1802—1803". The date assigned to the name *Nabis* Latreille in the *Official List* should be amended accordingly.

12. "Nycteribia" Latreille, 1796: In *Opinion* 128 the date "1805" was assigned to the name, *Nycteribia pedicularia* Latreille, of the type species of this genus. This name was published in volume 14 of the *Hist. nat. gén. partic. Crust. Ins.*, the title page of which bears the date "An XIII", i.e. the period September 1804 to September 1805. The date assigned to this name on the *Official List* should be amended accordingly.

(3) Question of the date of publication of Laporte's "Essai Class. syst. Ordre Hémipt." with special reference to the question of the date to be assigned to the generic name "Triatoma" Laporte

13. The generic name *Triatoma* Laporte was placed on the *Official List* by the Ruling given in *Opinion* 104. It was published in a work entitled *Essai d'une Classification systématique de l'Ordre des*

<sup>2</sup> Although, as explained in paragraph 10 above, Fabricius did not select *Reduvius fuscipes* Fabricius in 1803 to be the type species of the genus *Reduvius* Fabricius, that species, as I am informed by Professor Tadeusz Jaczewski (Warsaw) (in litt., 16th June 1956), was so selected by Stål in 1859 (*Ofvers. Vetensk.-Akad. Forhandl.*, Stockholm 16 : 201—204). That selection was, however, invalid, for (as noted in the paragraph referred to above) it had been anticipated in 1810 by the perfectly valid action by Latreille when he selected *Cimex personatus* Linnaeus, 1758, as the type species of this genus (intl'd F.H.).

*Hémiptères (Heteroptères)*. This was published in parts in Guérin's *Magazin de Zoologie* and was separately paged. The whole work is treated as forming part of volume 2 of the *Mag. Zool.* The question of the date (or dates) attributable to the *Essai* was examined by Harris (H.M.) in 1942 (*Pan-Pac. Ent.* 18 (4) : 161—162), who concluded that the whole work ought to be treated as having been published in 1833. This view was adopted in Paper Z.N.(S.) 996, in which the gender to be attributed to the name *Triatoma* was placed before the Commission, and led to correspondence between Professor Jaczewski and myself. The following is an extract from a letter dated 11th November 1955 in which Professor Jaczewski summed up his view in this matter as follows : " It has been shown beyond any doubt that the final portion of Laporte's *Essai* was antedated and was published not earlier than March or even April 1833. However, the work was issued in parts or sheets (successivement, feuille par feuille), which were annexed as supplements to successive fascicules of the *Magazin de Zoologie*, vol. 2, 1832. The *Essai* comprises five and a half sheets and there seems to be no reason to doubt that at least some of the earlier sheets were actually published in 1832. In other words I do not think that we should be entitled to consider the whole of the *Essai* as having been published in 1833 ". In view of the fact that, so far as is known the publication of only two of the parts (Livraisons 11 and 12) of the 1832 volume of the *Mag. Zool.* was delayed until some time in 1833 and that, as pointed out by Professor Jaczewski, the *Essai* consisted of five and a half sheets, it seems reasonable to conclude that at least the first sheet, which was the sheet which contained the name *Triatoma*, was published before the end of 1832. This is in harmony with the provision on the subject of the method to be adopted in determining the dates to be assigned to particular books inserted in the *Règles* by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 223—225). Under this provision it is necessary to adopt the earliest date on which it is definitely known that any given book was published and, where it is known that a book was published between two given dates, to adopt the later of those dates. Applying this provision in the present case, we find that there is sufficient evidence to justify the conclusion that at least some portion of Laporte's *Essai* was published in 1832. Since we know that this work was issued in sheets, it may be concluded that the first sheet, comprising pages 1 to 16, was published before the end of 1832. This evidence applies, however, only to the first sheet, there being nothing to show when the second sheet was issued. Accordingly, under the provision cited above the second and later sheets must be treated as having been published in 1833, the year in which the publication of the *Essai* is known to have been completed. If, as is recommended, the Commission accepts Professor Jaczewski's view that the first sheet of the *Essai* was published in 1832 and therefore that the name *Triatoma* is to be treated as having been published in that year, it will be necessary under the General Directives issued to the Commission by the International Congress of Zoology to enter the title of Laporte's

*Essai on the Official List of Works Approved as Available for Zoological Nomenclature* with an endorsement that the first sheet is to be treated as having been published in 1832 and the remainder in 1833.

**(4) Problems arising from subjective synonymisations of the names of type species of genera cited when generic names of insects were placed on the "Official List" in the period up to the end of 1936 and associated matters**

**14. "Cephenemyia" Latreille, 1818 :** This generic name was placed on the *Official List* by the Ruling given in *Opinion* 106. The type species of this genus was then cited as "trompe" in the so called "summary" (: 4), as "*Oestrus trompe* Fabr. = *O. nasalis* Linn." in the "Statement of the Case" embodied in this *Opinion* (: 7) and, later on the same page, as "*trompe* Fab., syn. of *Oestrus nasalis* Linn., 1758a". Two points call for attention in connection with these entries. First, it must be noted that Fabricius did not himself publish a new name *Oestrus trompe*, the name cited by him being the previously published name *Oestrus trompe* Modeer, 1786, *K. Vetensk-Akad. Nya Handl.* 7 : 134. This is therefore the name of the type species of the genus *Cephenemyia* Latreille. The second point to be noted is that the author of the application dealt with in *Opinion* 106 was in error in considering that the name *Oestrus trompe* "Fabricius" [*recte* Modeer, 1786], was a junior subjective synonym of *Oestrus nasalis* Linnaeus, 1758. The error so committed illustrates very well the dangers attaching to the former practice of the Commission in accepting subjective synonymisations for the names of the type species of genera when placing the generic names concerned on the *Official List*. All reference to *Oestrus nasalis* Linnaeus, 1758, in connection with the generic name *Cephenemyia* Latreille should now be deleted from the *Official List*.

**15. "Oestrus nasalis" Linnaeus, 1758 :** The name *Oestrus nasalis* Linnaeus, 1758, which, as explained in paragraph 14 above, was erroneously treated in *Opinion* 106 as the oldest available name for the taxon represented by the nominal species *Oestrus trompe* Modeer, 1786 (the reindeer bot) is in fact the oldest specific name for the horse bot and is currently placed in the genus *Gasterophilus* Leach, 1817, which was also placed on the *Official List* by the Ruling given in *Opinion* 106. The specific name *nasalis* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 584), as published in the combination *Oestrus nasalis*, should, as the valid name for an accepted species, now be placed on the *Official List of Specific Names in Zoology*.

**16. "Gasterophilus" Leach, 1817 :** The generic name *Gasterophilus* Leach, 1817, was (as noted above) placed on the *Official List* at the

same time as the generic name *Cephenemyia* Latreille. As in the case of the last-named genus, the Commission, when placing the name *Gasterophilus* Leach on the *Official List*, cited a subjective senior synonym for the type species, but on this occasion it was more successful than it had been in the case of *Cephenemyia*. The species so cited (*Oestrus intestinalis* De Geer, 1776, *Mém. Ins.* 6 : 292) is currently accepted as a senior subjective synonym of the name of the type species of this genus (*Oestrus equi* Clark, 1796, *Trans. linn. Soc. Lond.* 3 : 298, 326).

17. “*Oestrus equi*” Fabricius, 1787 : *Oestrus equi* Clark, 1796, the name of the type species of the genus *Gasterophilus* Leach, is not only a junior subjective synonym of an older name (*Oestrus intestinalis* De Geer, 1776) but is in addition objectively invalid as a junior homonym of the name *Oestrus equi* Fabricius, 1787 (*Mant. Ins.* 2 : 321). This latter name is not in use and the nominal taxon so named is at present indeterminate, for it is a composite of two well recognised species, each of which was cited by name by Fabricius when establishing his nominal species *Oestrus equi*. The nominal species concerned were : (i) *Oestrus nasalis* Linnaeus, 1758 (discussed in paragraphs 14 and 15 above, and (ii) *Oestrus haemorrhoidalis* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 584). Indeterminate names such as *Oestrus equi* Fabricius, 1787, serve no useful purpose and it is very desirable that, when such names are encountered, they should be given a determinate content by the selection of a lectotype. In the present case, it is evident from the choice of the specific name *equi* that Fabricius was attempting to give a name to the horse bot, though it is not clear why he thought a new name necessary, having regard to the fact that he cited, as a synonym of his new name *Oestrus equi*, the name *Oestrus nasalis* Linnaeus, 1758, the oldest available name for the horse bot. It would therefore be in accord with the intention of Fabricius if his name *Oestrus equi* were definitely attached to the horse bot. Accordingly from among the specimens included by Fabricius in his new nominal species *Oestrus equi* by citing the nominal species *Oestrus nasalis* Linnaeus, 1758, in synonymy, I now select the specimen described by Linnaeus in 1758 under the name *Oestrus nasalis* to be the lectotype of *Oestrus equi* Fabricius, 1787. As the result of the foregoing selection the specific name *equi* Fabricius, 1787, as published in the combination *Oestrus equi*, becomes a junior objective synonym of *nasalis* Linnaeus, 1758, as published in the combination *Oestrus nasalis*. As such, the name *equi* Fabricius, 1787, should now be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. At the same time the specific name *haemorrhoidalis* Linnaeus, 1758, as published in the combination *Oestrus haemorrhoidalis*, as being an available name currently accepted as the oldest such name for the taxon concerned, should be placed on the *Official List of Specific Names in Zoology*.

18. "Anthocoris" Fallén, 1844. The problem here is essentially similar to that discussed above (paragraph 14) in connection with the name *Cephenemyia* Latreille, 1818, for the Commission adopted in the case of *Anthocoris* Fallén also the undesirable—and now obsolete—practice of citing a subjective senior synonym when recording the name of the type species; as in the former case also the names so cited are not currently regarded by specialists as synonyms of one another. The type species of *Anthocoris* Fallén is, as stated in *Opinion* 104, the nominal species *Cimex nemorum* Linnaeus, 1761. The nominal species with which it was incorrectly identified in the foregoing *Opinion*, *Cimex sylvestris* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 449), is not only now regarded by specialists as a distinct species but is in addition the type species by monotypy of the currently accepted genus *Ligyrocoris* Stål, 1872 (*Ofvers. Vetensk.-Akad. Forhandl.*, Stockholm 29 : 51). On the proposal of Professor Jaczewski, it is recommended that the generic name *Ligyrocoris* Stål, 1872, and the specific name *sylvestris* Linnaeus, 1758, as published in the combination *Cimex sylvestris* should now be placed on the respective *Official Lists* of valid names.

19. Authorship of the generic name "Anthocoris": It should be noted that the name *Anthocoris* was published in a doctoral thesis presented to the university authorities by a pupil of Fallén named Rodhe. The problem of the authorship to be attributed to such names has arisen on a number of occasions in connection with the addition of names to the *Official List*. In each case the name concerned has been attributed to the professor and not to the pupil, it being known that in the Scandinavian universities it was the practice in the XVIIIth and early XIXth centuries for the descriptions of new species to be written by the professor by whom they were handed over to the pupil for inclusion in his thesis. The early literature of many groups abounds with cases of this kind where the new names in the theses concerned are attributed to the professor and not to the pupil, the best known example being perhaps the long collection of theses by pupils of Linnaeus later issued in a series of volumes under the title *Amoenitates Academicæ*. In the circumstances it is proposed that the name *Anthocoris*, on being entered on the *Official List*, be attributed to the professor Fallén and not to the pupil Rodhe.

20. "Nabis" Latreille, [1802—1803]: In addition to the question of the date to be attributed to this generic name which has been discussed in paragraph 11 above, there is a further question relating to the synonymy of the type species to which attention has been drawn by Professor Jaczewski who has suggested that the present opportunity be taken for dealing with the matter involved. The type species of this genus is (as stated in *Opinion* 104) the nominal species *Cimex*

*vagans* Fabricius, 1787, which (as also stated in the above *Opinion*) is currently identified with the older nominal species *Cimex ferus* Linnaeus, 1758. The point to which Professor Jaczewski has drawn attention is that formerly there were disagreements among specialists on the question whether the type species of this genus was *Cimex vagans* Fabricius, 1787, or *Reduvius guttula* Fabricius, 1787 (*Mantissa Ins.* 2 : 314). The latter species has since been made by monotypy the type species of the genus *Prostemma* Laporte (F.L.de), [1832] (*Essai Class. syst. Hémipt.* : (Sheet 1) 6, 12. The work in which the above name appeared which was issued as a separately paged supplement of volume 2 of Guerin's *Magazin de Zoologie* has been discussed in paragraph 13 in connection with the date to be attributed to the name *Triatoma* Laporte. Professor Jaczewski recommends that the ghost of the former argument regarding the synonymy of the name of the type species of *Nabis* Latreille should now be set at rest by placing the generic name *Prostemma* Laporte, [1832], and the specific name *guttula* Fabricius, 1787, as published in the combination *Reduvius guttula*, on the respective *Official Lists* of valid names.

**21. Relation of "Opinion" 244 to the status of the generic name "Nabis" Latreille, [1802—1803] :** While dealing with the generic name *Nabis* Latreille, [1802—1803], it should be noted that at the time when that name was placed on the *Official List* by the Ruling given in *Opinion* 104 (published in 1928) it was a possible subjective junior synonym of *Coriscus* Schrank, 1796. The problem raised by the generic name *Coriscus* Schrank was considered by the Commission in 1948 on an application submitted for the validation of the name *Alydus* Fabricius, 1803, which also had been regarded on a different interpretation as a junior subjective synonym of *Coriscus*. The Commission then decided to put a stop to discussion on this subject by suppressing the name *Coriscus* Schrank (*Opinion* 244). As Professor Jaczewski observes in his paper of October 1955 the above *Opinion* "not only provides a status of priority for the generic name *Alydus* Fabricius, 1803, but confirms as well the status of priority for the generic name *Nabis* Latreille, [1802—1803], given to it by *Opinion* 104".

**22. "Cimex" Linnaeus, 1758 :** In *Opinion* 81, in which the generic name *Cimex* Linnaeus, 1758, was placed on the *Official List*, three junior objective synonyms were cited, all of which should now be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* (paragraph 24 below). In the case of one of these junior synonyms, *Clinocoris* Fallén, 1829, there is a junior homonym *Clinocoris* Hahn, 1834, which it is proposed should also be placed on the *Official Index*. This latter name, which is also the name of a genus of Hemiptera, is, Professor Jaczewski informs me, the oldest (but invalid) name for a genus which is currently treated as not even belonging to the family CIMICIDAE. The oldest available name for the genus *Clinocoris* Hahn, 1834, is *Elasmucha* Stål, 1864 (*Ann. Soc. ent.*

France (4) 4 : 54). Stål established this nominal genus for the taxon to which Fieber in 1861 (*Europ. Hemipt.* : 327) had erroneously applied the name *Sastragala* Amyot & Serville, 1843 (*Hist. nat. Ins., Hémipt.* : 155) and in which he had placed the nominal species *Cimex ferrugatus* Fabricius, 1778 (*Mantissa Ins.* 2 : 382), which therefore becomes the type species (by monotypy) of *Elasmucha* Stål, 1864. The type species of *Sastragala* Amyot & Serville, 1843, is by monotypy the quite distinct species *Cimex uniguttatus* Donovan, (1804) (*Nat. Hist. Ins. Ind.* : text to pl. [14]). Professor Jaczewski recommends that, in order to dispose of this matter, the generic name *Sastragala* Amyot & Serville, 1843, and *Elasmucha* Stål, 1864, should now be placed on the *Official List of Generic Names in Zoology* and that the specific names of the respective type species of the genera so named should be placed on the *Official List of Specific Names in Zoology*.

**(5) Orthography of the generic names of insects placed on the " Official List of Generic Names in Zoology " in the period up to the end of 1936**

23. The original spelling of several of the names of insects placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was later emended by various authors. Prominent among these cases are the names *Cephenemyia* Latreille, 1818, and *Gasterophilus* Leach, 1817. The emendations so published gained a certain vogue but in each case, when the generic name concerned was placed on the *Official List*, it was the original spelling which was adopted by the International Commission. Since that date no suggestion has been received in respect of any of these names that one of the later emendations should be adopted in place of the original spelling which in each case appears now to be the spelling in general use. It is accordingly proposed (paragraph 24 below) that the various emendations involved—all of which are, in the terminology of the Copenhagen Congress (1953, *Copenhagen Decisions zool. Nomencl.* : 44, Decision 71(2)(a)) "Invalid Emendations", should now be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.

**(6) Proposed addition of certain objectively invalid generic and specific names to the " Official Indexes of Rejected and Invalid Names in Zoology "**

24. As in the case of the reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the present review of the names of genera of insects placed on that *Official List* in that period has brought to light a considerable number of

objectively invalid generic and specific names which should now be placed on the appropriate *Official Index*. These names are listed in Annexe 2 to the present paper, the generic names concerned being enumerated in Section A and the specific names in Section B.

**(7) Family-group-name problems involved in connection with the generic names of insects placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936**

25. In a considerable number of cases, the genera of insects, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, are the type genera of family-group taxa. As in the case of the surveys of other groups of generic names already undertaken, it is proposed to postpone to a final paper the proposals required for dealing with the family-group-name problems involved in the present survey of the generic names of insects placed on the *Official List* in the foregoing period. So far as concerns this problem in relation to the names of genera of the Order Hemiptera, full particulars have been supplied in the important communication from Professor Jaczewski, to which reference has already been made (paragraph 3 above). Investigations are proceeding on Commission File Z.N.(G.) 76 in regard to the family-group-name problems involved in the case of the names of genera belonging to other Orders of insects.

**(8) Recommendations**

26. In the light of the particulars relating to the generic names of insects, the names of which were placed on the *Official List* in the period up to the end of 1936, set out in the present paper, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* adopted in the foregoing period issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) insert in the entry on the *Official List of Works Approved as Available for Zoological Nomenclature* relating to Westwood's *Introduction to a modern Classification of Insects* and the accompanying *Synopsis of the Genera of British Insects*, made by the Ruling given in *Direction 32*, the particulars regarding the dates of publication as determined by Griffin (1932) and, in the light of the information referred to above, to substitute the date "[November 1838]" for the date "1840" given in *Opinion 104* as the date of publication of the portion of the



*Synopsis* containing the selection by Westwood of *Blatta lapponica* Linnaeus, 1758, as the type species of *Ectobius* Stephens, 1835 (paragraph 6) ;

- (2) direct that the entry " type species, by selection by Kirby (W.F.), 1890 " be substituted for the entry " type species, by selection [by some unspecified author] in 1903 " in relation to the determination under Article 30 of the type species of the genus *Periplaneta* Burmeister, 1838 (paragraph 7) ;
- (3) direct that in the case of the generic name *Forficula* Linnaeus, 1758, the incorrect entry " type species, by absolute tautonymy " be deleted from the *Official List* and that in its place there be made the entry " type species, by selection by Latreille (1810) " (paragraph 8) ;
- (4) delete from the *Official List* the portion of the entry relating to *Pediculus humanus* Linnaeus, 1758, the type species of *Pediculus* Linnaeus, 1758, where it was stated that the foregoing nominal species was later restricted to the form *capitis* and insert in place thereof an entry that the above species was restricted to the form referred to by Linnaeus as living " *in vestamentis humanis* " (i.e. the form commonly known as " corporis ") by Latreille as First Reviser in [1803—1804] in volume 8 of the *Hist. nat. gén. partic. Crust. Ins.* (paragraph 9) ;
- (5) delete from the entry relating to the method by which the type species of *Reduvius* Fabricius, 1775, was determined under Article 30 of the *Règles* all reference to the alleged but non-existent selection in 1803 of *Reduvius fuscipes* Fabricius, 1787, as type species, leaving only the correct entry that the type species of this genus was *Cimex personatus* Linnaeus, 1758, that species having been so selected by Latreille in 1810 (paragraph 10) ; ..
- (6) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names specified in Annexe 1 to the present paper, in which have been incorporated the relevant recommendations set out in (1) to (5) above, the particulars given in the said Annexe as to the manner in which the type species of the genera concerned were determined under Article 30 of the *Règles* (paragraph 5) ;
- (7) substitute on the *Official List* the date " [1802—1803] " for the date " 1802 " as the date of publication of the generic name *Nabis* Latreille (paragraph 11) ;

- (8) substitute on the *Official List* the date “ [1804—1805] ” for the date “ 1805 ” as the date of publication of the name *Nycteribia pedicularia* Latreille, the name of the type species of *Nycteribia* Latreille, 1796 (paragraph 12) ;
- (9) direct :—
- (a) that the first sheet (comprising pp. 1—16) of the work by Laporte (F.L.de) entitled *Essai d'une Classification systématique de l'Ordre des Hémiptères (Heteroptères)* be treated as having been published in the year [1832] and that, in default of information to the contrary, the remainder in [1833] ;
- (b) that the title of the above work, endorsed as in (a) above be entered on the *Official List of Works Approved as Available for Zoological Nomenclature* ;
- (c) that in the light of (a) above the date “ [1832] ” be assigned in the *Official List* to the generic name *Triatoma* Laporte (paragraph 13) ;
- (10) delete from the *Official List* the statement that the type species of the genus *Cephenemyia* Latreille, 1818, is “ *trompe* Fab. ”, i.e. the name *Oestrus trompe* as used by Fabricius in 1794 and to insert in its place the entry that the name of the type species of this genus is *Oestrus trompe* Modeer, 1786 (paragraph 14) ;
- (11) delete from the *Official List* the unnecessary and incorrect subjective synonymisation of *Oestrus nasalis* Linnaeus, 1758, with the name of the type species of *Cephenemyia* Latreille, 1818 (paragraph 14) ;
- (12) place the specific name *nasalis* Linnaeus, 1758, as published in the combination *Oestrus nasalis* [the oldest available name for the horse bot] on the *Official List of Specific Names in Zoology* (paragraph 15) ;
- (13) delete from the *Official List* the unnecessary subjective synonymisation of *Oestrus intestinalis* De Geer, 1776, with the name of the type species of *Gasterophilus* Leach, 1817 (paragraph 16) ;
- (14) place the specific name *haemorrhoidalis* Linnaeus, 1758, as published in the combination *Oestrus haemorrhoidalis* on the *Official List of Specific Names in Zoology* (paragraph 17) ;

- (15) delete all reference to the nominal species *Cimex sylvestris* Linnaeus, 1758, from the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Anthocoris* Fallén, 1814 (paragraph 18) ;
- (16) place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Ligyrocoris* Stål, 1872 (gender : masculine) (type species, by monotypy : *Cimex sylvestris* Linnaeus, 1758) (Order Hemiptera) (paragraph 18) ;
- (17) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *sylvestris* Linnaeus, 1758, as published in the combination *Cimex sylvestris* (specific name of type species of *Ligyrocoris* Stål, 1872 (Order Hemiptera) (paragraph 18) ;
- (18) direct that the generic name *Anthocoris* (referred to in (15) above) be attributed to Fallén and not to his pupil Rodhe (paragraph 19) ;
- (19) place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Prostemma* Laporte (F.L.de), [1832] (gender : neuter) (type species, by monotypy : *Reduvius guttula* Fabricius, 1787) (Order Hemiptera) (paragraph 20) ;
- (20) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *guttula* Fabricius, 1787, as published in the combination *Reduvius guttula* (specific name of type species of *Prostemma* Laporte, [1832]) (Order Hemiptera) (paragraph 20) ;
- (21) place the under-mentioned names of genera of the Order Hemiptera on the *Official List of Generic Names in Zoology* :—
  - (a) *Sastragala* Amyot & Serville, 1843 (gender : feminine) (type species, by monotypy : *Cimex uniguttatus* Donovan, (1804)) ;
  - (b) *Elasmucha* Stål, 1864 (gender : feminine) (type species, by monotypy : *Cimex ferrugatus* Fabricius, 1878) (paragraph (22) ;
- (22) place the under-mentioned specific names of species of the Order Hemiptera on the *Official List of Specific Names in Zoology* :—
  - (a) *uniguttatus* Donovan, (1804), as published in the combination *Cimex uniguttatus* (specific name of type species of *Sastragala* Amyot & Serville, 1843) ;

- (b) *ferrugatus* Fabricius, 1787, as published in the combination *Cimex ferrugatus* (specific name of type species of *Elasmucha* Stål, 1864) (paragraph 22) ;
- (23) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Section A of Annexe 2 to the present paper (paragraph 24) ;
- (24) place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the objectively invalid specific names enumerated in Section B of Annexe 2 to the present paper (paragraph 24).

## ANNEXE 1

**Proposals for the amplification and correction of entries made in the "Official List of Generic Names in Zoology" regarding the method by which the type species of certain genera of insects were determined under Article 30 of the "Règles"**

| <i>Name of Genus</i>                | <i>Entry relating to the determination of the type species now proposed to be inserted in the "Official List of Generic Names in Zoology"</i> |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Lepisma</i> Linnaeus, 1758       | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 423, 113                                           |
| <i>Blatta</i> Linnaeus, 1758        | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 246                                           |
| <i>Ectobius</i> Stephens, 1835      | by subsequent selection by Westwood, [1838], <i>Introd. mod. Class. Ins.</i> 2, Syn. gen. Brit. Ins. : 44                                     |
| <i>Gryllus</i> Linnaeus, 1758       | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 248                                           |
| <i>Periplaneta</i> Burmeister, 1833 | by subsequent selection by Kirby (W.F.), 1890, <i>Proc. roy. Soc. Dublin</i> (n.s.) 6 : 562                                                   |
| <i>Pulex</i> Linnaeus, 1768         | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 444, 409                                           |

| <i>Name of Genus</i>                | <i>Entry relating to the determination of the type species now proposed to be inserted in the "Official List of Generic Names in Zoology"</i> |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Pediculus</i> Linnaeus, 1758     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 423, 114                                           |
| <i>Forficula</i> Linnaeus, 1758     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 246                                           |
| <i>Anthocoris</i> Fallén, 1814      | by subsequent selection by Westwood, 1840, <i>Introd. mod. Class. Ins.</i> 2, Syn. Gen. Brit. Ins. : 122                                      |
| <i>Nabis</i> Latreille, [1802—1803] | by subsequent selection by Westwood, 1840, <i>Introd. Mod. Class. Ins.</i> 2, Syn. Gen. Brit. Ins. : 120                                      |
| <i>Notonecta</i> Linnaeus, 1758     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 434, 261                                           |
| <i>Reduvius</i> Fabricius, 1775     | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 433, 256.                                          |

## ANNEXE 2

**Proposed addition of certain objectively invalid generic and specific names to the "Official Indexes of Rejected and Invalid Names in Zoology"**

**Section A : Proposed addition of twenty-five generic names to the "Official Index of Rejected and Invalid Generic Names in Zoology"**

- Acanthia* Fabricius, 1775, *Syst. Ent.* : 693 (a junior objective synonym of *Cimex* Linnaeus, 1758, placed on the *Official List* in *Opinion* 81)
- Cephalemyia* Latreille, 1818, *Nouv. Dict. Hist. nat.* 23 : 273 (a junior objective synonym of *Oestrus* Linnaeus, 1758, placed on the *Official List* in *Opinion* 106)
- Cephalemyia* Rondani, 1856, *Dipt. Ital. Prodr.* 1 : 43 (an Erroneous Subsequent Spelling for *Cephalemyia* Latreille, 1818)
- Cephalomyia* Agassiz, 1846, *Nomencl. zool. Index Univ.* : 71 (an Invalid Emendation of *Cephalemyia* Latreille, 1818)
- Cephenemyia* Robineau-Desvoidy, 1830, *Mém. prés. Acad. France* 2 : 26 (an Erroneous Subsequent Spelling for *Cephenemyia* Latreille, 1818, placed on the *Official List* in *Opinion* 106)

- Cephenomyia* Agassiz, 1846, *Nomencl. zool. Index Univ.* : 72 (an Invalid Emendation of *Cephenomyia* Latreille, 1818)
- Clinocoris* Fallén, 1829, *Hemipt. svec.* **1** : 141 (a junior objective synonym of *Cimex* Linnaeus, 1758, placed on the *Official List* in *Opinion* 81)
- Clinocoris* Hahn, 1834, *Wanzenart. Ins.* **2**(3) : 70 (a junior homonym of *Clinocoris* Fallén, 1829)
- Clinophilus* Blanford, 1903, *Nature* **69** : 200 (an Invalid Emendation of *Klinophilos* Kirkaldy, 1899)
- Conochinus* Dohrn, 1859, *Cat. Hemipt.* : 48 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833])
- Conorchinus* Spinola, 1852, *Mem. Soc. Modena* **25** : 86 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833])
- Conorhinus* Laporte, [1833], *Essai Syst. Class. Hémipt.* : 78 (a *nom. nov. pro Triatoma* Laporte, [1832], placed on the *Official List* in *Opinion* 104)
- Conorrhinus* Jeannel, 1919, in Alluaud & Jeannel, *Voy. Afr. Orient., Ins. Hemipt.* **3** : 176, 177 (an Erroneous Subsequent Spelling for *Conorhinus* Laporte, [1833])
- Gastrophilus* Agassiz, 1846, *Nomencl. zool. Index Univ.* : 160 (an Invalid Emendation of *Gasterophilus* Leach, 1817 placed on the *Official List* in *Opinion* 106)
- Hylophila* Kirby & Spence, 1828, *Introd. Entom.* (ed. 5) **1** : 107 (a junior objective synonym of *Anthocoris* Fallén, 1814, placed on the *Official List* in *Opinion* 104)
- Hypoderma* Geoffroy, 1828, *Dict. class. Hist. nat.* **14** : 707 (a junior homonym of *Hypoderma* Latreille, 1818, placed on the *Official List* in *Opinion* 106)
- Klinophilos* Kirkaldy, 1899, *Entomologist* **32** : 219 (a junior objective synonym of *Cimex* Linnaeus, 1758, placed on the *Official List* in *Opinion* 81)
- Lepisina* Radermacher, 1779, *Verh. Batav. Genoot.* **1** : 104 (an Erroneous Subsequent Spelling for *Lepisma* Linnaeus, 1758, placed on the *Official List* in *Opinion* 104)
- Metastemma* Amyot & Serville, 1843, *Hist. nat. Ins., Hémipt.* : 327 (an Invalid Emendation of *Prostemma* Laporte, [1832])
- Notonecia* Fabricius, 1798, *Suppl. Ent. Syst.* : 524 (an Erroneous Subsequent Spelling for *Notonecta* Linnaeus, 1758, placed on the *Official List* in *Opinion* 104)

*Oedemagenus* Berthold, 1827, in Latreille, *Nat. Fam. Thierr.* : 507 (an Invalid Emendation of *Oedemagena* Latreille, 1818, placed on the *Official List* in *Opinion* 106)

*Phthirus* Burmeister, 1835, *Handb. Ent.* 2(1) : 58 (an Invalid Emendation of *Pthirus* [Leach], [1815], placed on the *Official List* in *Opinion* 104)

*Phthirus* Leach, 1817, *Zool. Miscell.* 3 : 64 (an Invalid Emendation of *Pthirus* [Leach], [1815], placed on the *Official List* in *Opinion* 104)

*Phyllocoris* Costa, 1847, *Atti R. Ist. Incoragg. Napoli* 7 : 261 (a junior objective synonym of *Anthocoris* Fallén, 1814, placed on the *Official List* in *Opinion* 104)

*Postemma* Dufour, 1834, *Ann. Soc. Ent. France* 3 : 350 (an Invalid Emendation of *Prostemma* Laporte, [1832]).

**Section B : Proposed addition of six specific names to the  
“ Official Index of Rejected and Invalid Specific Names  
in Zoology ”**

*equi* Clark, 1797 (*Trans. Linn. Soc. Lond.* 3 : 298, 326) as published in the combination *Oestrus equi* (a junior primary homonym of *equi* Fabricius, 1787, as published in the combination *Oestrus equi*)

*equi* Fabricius, 1787 (*Mantissa Ins.* 2 : 321), as published in the combination *Oestrus equi*, as defined by the lectotype selection made in paragraph 17 of the present application<sup>3</sup> (a junior objective synonym of *nasalis* Linnaeus, 1758, as published in the combination *Oestrus nasalis*)

*erythrozonias* Gmelin, [1790] (in Linnaeus, *Syst. Nat.* (ed. 13) 1(4) : 2181) as published in the combination *Cimex erythrozonias* (a *nom. nov. pro rubrofasciatus* De Geer, 1773, as published in the combination *Cimex rubrofasciatus*)

*ferrugator* Fabricius, 1794 (*Ent. Syst.* 4 : 101) as published in the combination *Cimex ferrugator* (an Invalid emendation of *ferrugatus* Fabricius, 1787, as published in the combination *Cimex ferrugatus*)

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<sup>3</sup> See page 42 of the present *Direction*.

*inguinalis* [Leach], [1815] (*Edinb. Ency.* 9 : 77) as published in the combination *Pthirus inguinalis* (a junior objective synonym of *pubis* Linnaeus, 1758, as published in the combination *Pediculus pubis*)

*rufofasciata* Van Duzee, 1917 (*Cat. Hemipt. Amer. N. of Mexico ; Univ. Calif. Publ., Entom.* 2 : 248, 893) as published in the combination *Triatoma rufofasciata* (an Erroneous Subsequent Spelling of *rubrofasciatus* De Geer, 1773, as published in the combination *Cimex rubrofasciatus*).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of completing and correcting in the manner proposed the entries relating to the names of genera of the Class Insecta made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1017.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)11 :** On 31st May 1956 a Voting Paper (V.P.(O.M.)(56)11) was issued in which each Member of the Commission was asked (1) to state whether he agreed "that, in accordance with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to the end of 1936, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 26 of the paper numbered Z.N.(S.) 1017, regarding names in the Class Insecta submitted by the Secretary simultaneously with the present Voting



Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended" and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 1st July 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M)(56)11 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)56)11 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Kühnelt ; Lemche ; Sylvester-Bradley ; Mayr ; Holthuis<sup>4</sup> ; Dymond ; Hering ; Boschma<sup>4</sup> ; Prantl ; Stoll ; Key ; Vokes ; Esaki ; Bradley (J.C.) ; Cabrera ; Hemming ; Riley ; Mertens ; Jaczewski ; Bonnet ; Hankó ; Tortonese ; do Amaral ;

(b) *Negative Votes :*

None ;

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<sup>4</sup> The affirmative vote given by these Commissioners was subject to the qualification, as regards the authorship to be attributed to the generic name *Anthocoris*, that further consideration should be given to the question of the authorship attributable to zoological names included in doctoral theses published in the XVIIIth and early XIXth centuries, in cases where there was a reasonable doubt as to whether the name should be attributed to the supplicant for a doctorate or to the Professor under whom the supplicant had studied and the names of both persons appeared on the thesis. This matter is now the subject of special study on Commission File Z.N.(S.) 1139.

(c) *Voting Papers not returned, one (1) :*

Miller.

**6. Declaration of Result of Vote :** On 2nd July 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)11, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Addition of two further names to the “ Official Index of Rejected and Invalid Generic Names in Zoology ” :** On 11th February 1957 Mr. Hemming, as Secretary, executed the following Minute directing the addition to the *Official Index of Rejected and Invalid Generic Names in Zoology* of two objectively invalid names directly involved in the present case, the existence of which had been brought to light by Professor Tadeusz Jaczewski during the Prescribed Voting Period for Voting Paper V.P.(O.M.) (56) 11 :—

**Addition of two further names to the “ Official Index of Rejected and Invalid Generic Names in Zoology ”**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

On 27th June 1956 I received a letter, with enclosure, dated 16th June 1956, from Professor Tadeusz Jaczewski (*Polish Academy of Sciences, Institute of Zoology, Warsaw*), (a) drawing attention to two objectively invalid generic names directly involved in the proposals which had been placed before the International Commission with Voting Paper V.P.(O.M.)(56)11 which he recommended should be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* and (b) raising certain problems in connection with the

*de facto* establishment of new nominal taxa of the generic-name category in cases where an author by making an incorrect selection of a type species for a previously established nominal genus himself establishes—though with an invalid homonymous name—a taxon of the generic rank for the species erroneously so selected.

2. The objectively invalid generic names brought to notice by Professor Jaczewski are the following :—

(a) *Ryparocoris* Schummel,<sup>5</sup> [1827], in Gravenhorst (J.L.C.), *Allgemeiner Bericht der entomologischen Section, Uebersicht der Arb. und Veränd. der schles. Ges. für vaterländ. Cultur*, Breslau 1826 : 22 (type species, by monotypy : *Reduvius personatus* Linnaeus, 1758) (an unnecessary new name for, and a junior objective synonym of, *Reduvius* Fabricius, 1775) ;

(b) *Prostremma* Kiritshenko, [1909], *Rev. russ. Ent.* 8 : 238 (in a paper entitled “ K faune Hemiptera-Heteroptera Kryma, I ”) (an Erroneous Subsequent Spelling for *Prostemma* Laporte, [1832]).

3. In the light of the communication received from Professor Jaczewski, as Secretary I hereby direct as follows, namely :—

(1) that the two generic names specified in paragraph 2 above, being objectively invalid names directly involved in the case submitted to the International Commission with Voting Paper V.P.(O.M.)(56)11, be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* and that provision to this effect be made in the Ruling to be prepared for the *Direction* to be rendered for the purpose of giving effect to the decision taken by the Commission on the foregoing Voting Paper ;

(2) that the general question relating to homonymous generic names which arise irregularly when authors make incorrect selections

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<sup>5</sup> Having regard to the fact that in Neave's *Nomencl. zool.*, the generic name *Ryparocoris* is attributed (as from the same paper) to Schilling and not to Schummel, the author cited in Professor Jaczewski's letter, I asked Professor Jaczewski if he could throw any light on this matter. In a letter dated 21st February 1957 he kindly informed me as follows : “ Both Schummel and Schilling contributed on the same page (: 32) particular paragraphs in J. C. L. Gravenhorst's Report “Allgemeiner Bericht der Entomologischen Section, Uebersicht der Arbeiten und Veränderungen der schlesischen Gesellschaft für vaterländische Cultur”, Breslau, 1826—1827. The paragraph in which the name *Ryparocoris* was published was by Schummel ” (intl'd F.H., 6th March 1957).

of type species for previously established nominal genera be remitted for further study.<sup>6</sup>

**8. Preparation of the Ruling given in the present "Direction":** On 12th February 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)11, subject to the minor adjustment specified in the Minute executed by the Secretary on 11th February 1957, the text of which has been reproduced in paragraph 7 of the present *Direction*.

**9. Original References:** The following are the original references for the names placed on *Official Lists* by the Ruling given in the present *Direction* :—

*Elasmucha* Stål, 1864, *Ann. Soc. ent. France* (4) **4** : 54

*ferrugatus*, *Cimex*, Fabricius, 1787, *Mantissa Ins.* **2** : 232

*guttula*, *Reduvius*, Fabricius, 1787, *Mantissa Ins.* **2** : 314

*haemorrhoidalis*, *Oestrus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 584

*Ligyrocaris* Stål, 1872, *Ofvers. Vetensk.-Akad. Forhandl.*, Stockholm **29** : 51

*nasalis*, *Oestrus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 584

*Prostemma* Laporte (F.L.de), [1832], *Essai Class. syst. Hémipt.*: (Sheet 1) 6, 12

*Sastragala* Amyot & Serville, 1843, *Hist. nat. Ins.*, Hémipt. : 155

*sylvestris*, *Cimex*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 449

*uniguttatus*, *Cimex*, Donovan, (1804), *Nat. Hist. Ins. Ind.* : text to pl. [14]

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<sup>6</sup> A File bearing the Registered Number Z.N.(G.) 139 has been opened for the conduct of the further study here prescribed.

10. The original references for the generic names placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* by the Ruling given in the present *Direction* are as set out in Section A of Annexe 2 to the application reproduced in the first paragraph of the present *Direction*, save as regards the two generic names specified below, which were not included in the foregoing Annexe, the original references for which are as follows :—

*Prostemma* Kiritshenko, [1909], *Rev. russ. Ent.* 8 : 238

*Ryparocoris* Schummel, [1827], *Uebers u. Veränd. schles. Ges. f. vaterländ. Cultur*, Breslau 1826 : 22

11. The original references for the specific names placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* are as set out in Section B of Annexe 2 of the application reproduced in the first paragraph of the present *Direction*.

12. The following is the original reference for the lectotype selection for a nominal species specified in the Ruling given in the present *Direction* :—

For *Oestrus equi* Fabricius, 1787 : Hemming, 1957, *Ops. Decls. int. Comm. zool. Nomencl.* 1(E) : 42 [i.e. page 42 of the present *Direction*]

13. **Family-Group-Name Aspects :** The family-group-name implications in connection with the generic names dealt with in the present *Direction* have been reserved for further study, with a view to the submission to the Commission of comprehensive proposals relating to this aspect of the entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936.

14. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary

to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**15.** The present *Direction* shall be known as *Direction Sixty-Three (63)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of February, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.4. Pp. 61—74**

## **DIRECTION 64**

Addition to the *Official List of Specific Names in Zoology* (a) of the specific names of nineteen species belonging to the Class Insecta, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and (b) of the specific names of three species belonging to the same Class which are currently treated as senior subjective synonyms of the names of such species

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 64

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

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Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)



## DIRECTION 64

ADDITION TO THE "OFFICIAL LIST OF SPECIFIC NAMES IN ZOOLOGY" (a) OF THE SPECIFIC NAMES OF NINETEEN SPECIES BELONGING TO THE CLASS INSECTA, EACH OF WHICH IS THE TYPE SPECIES OF A GENUS, THE NAME OF WHICH WAS PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936 AND (b) OF THE SPECIFIC NAMES OF THREE SPECIES BELONGING TO THE SAME CLASS WHICH ARE CURRENTLY TREATED AS SENIOR SUBJECTIVE SYNONYMS OF THE NAMES OF SUCH SPECIES

**RULING :—**(1) The under-mentioned specific names of species belonging to the Order Hemiptera (Class Insecta), each of which is the type species of a genus the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in the *Opinions* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *lectularius* Linnaeus, 1758, as published in the combination *Cimex lectularius* (specific name of type species of *Cimex* Linnaeus, 1758) (*Opinion* 81) (Name No. 1271) ;
- (b) *nemorum* Linnaeus, 1761, as published in the combination *Cimex nemorum* (specific name of type species of *Anthocoris* Fallén, 1814) (*Opinion* 104) (Name No. 1272) ;
- (c) *glauca* Linnaeus, 1758, as published in the combination *Notonecta glauca* (specific name of type species of *Notonecta* Linnaeus, 1758) (*Opinion* 104) (Name No. 1273) ;

- (d) *personatus* Linnaeus, 1758, as published in the combination *Cimex personatus* (specific name of type species of *Reduvius* Fabricius, 1775) (*Opinion* 104) (Name No. 1274).

(2) The under-mentioned specific names of species belonging to the Order Diptera (Class Insecta), each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in the *Opinions* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *domestica* Linnaeus, 1758, as published in the combination *Musca domestica* (specific name of type species of *Musca* Linnaeus, 1758) (*Opinion* 82) (Name No. 1275) ;
- (b) *trompe* Modeer, 1786, as published in the combination *Oestrus trompe* (specific name of type species of *Cephenemyia* Latreille, 1818) (*Opinion* 106) (Name No. 1276) ;
- (c) *bovis* Linnaeus, 1758, as published in the combination *Oestrus bovis* (specific name of type species of *Hypoderma* Latreille, 1818) (*Opinion* 106) (Name No. 1277) ;
- (d) *tarandi* Linnaeus, 1758, as published in the combination *Oestrus tarandi* (specific name of type species of *Oedemagena* Latreille, 1818) (*Opinion* 106) (Name No. 1278) ;
- (e) *ovis* Linnaeus, 1758, as published in the combination *Oestrus ovis* (specific name of type species of *Oestrus* Linnaeus, 1758) (*Opinion* 106) (Name No. 1279) ;

(f) *pedicularia* Latreille, [1804—1805], as published in the combination *Nycteribia pedicularia* (specific name of type species of *Nycteribia* Latreille, 1796) (*Opinion* 128) (Name No. 1280).

(3) The under-mentioned specific names of species belonging to the Orders of the Class Insecta cited below, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in *Opinion* 104, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

(a) *orientalis* Linnaeus, 1758, as published in the combination *Blatta orientalis* (specific name of type species of *Blatta* Linnaeus, 1758) (Order Orthoptera) (Name No. 1281) ;

(b) *lapponica* Linnaeus, 1758, as published in the combination *Blatta lapponica* (specific name of type species of *Ectobius* Stephens, 1835) (Order Orthoptera) (Name No. 1282) ;

(c) *campestris* Linnaeus, 1758, as published in the combination *Gryllus campestris* (specific name of type species of *Gryllus* Linnaeus, 1758) (Order Orthoptera) (Name No. 1283) ;

(d) *americana* Linnaeus, 1758, as published in the combination *Blatta americana* (specific name of type species of *Periplanata* Burmeister, 1838) (Order Orthoptera) (Name No. 1284) ;

(e) *auricularia* Linnaeus, 1758, as published in the combination *Forficula auricularia* (specific name of type species of *Forficula* Linnaeus, 1758) (Order Dermaptera) (Name No. 1285) ;

- (f) *humanus* Linnaeus, 1758, as published in the combination *Pediculus humanus* (specific name of type species of *Pediculus* Linnaeus, 1758) (Order Anoplura) (Name No. 1286) ;
- (g) *pubis* Linnaeus, 1758, as published in the combination *Pediculus pubis* (specific name of type species of *Pthirus* [Leach], [1815]) (Order Anoplura) (Name No. 1287) ;
- (h) *irritans* Linnaeus, 1758, as published in the combination *Pulex irritans* (specific name of type species of *Pulex* Linnaeus, 1758) (Order Siphonaptera) (Name No. 1288) ;
- (i) *saccharina* Linnaeus, 1758, as published in the combination *Lepisma saccharina* (specific name of type species of *Lepisma* Linnaeus, 1758) (Order Thysanura) (Name No. 1289).

(4) The under-mentioned specific names which are currently regarded as senior subjective synonyms of the specific names of the type species of genera belonging in the first two cases to the Order Hemiptera of the Class Insecta and in the third case to the Order Diptera of the same Class, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in the *Opinions* cited below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *ferus* Linnaeus, 1758, as published in the combination *Cimex ferus* (*Opinion* 104) (Name No. 1290) ;
- (b) *rubrofasciatus* De Geer, 1773, as published in the combination *Cimex rubrofasciatus* (*Opinion* 104) (Name No. 1291) ;
- (c) *intestinalis* De Geer, 1776, as published in the combination *Oestrus intestinalis* (*Opinion* 104) (Name No. 1292).

# I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* has been prepared under a General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that the specific names of the species which are the type species of genera, the names of which had been placed on the *Official List of Generic Names in Zoology* prior to the opening of that Congress, should, if the oldest available names for the species concerned, be placed on the *Official List of Specific Names in Zoology* and that in other cases there should be placed on that *List* whatever is currently considered to be the oldest available name for the species concerned. The present, which is the fifth in this series of *Directions*, is concerned with the names of the type species of genera belonging to the Class Insecta, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. The total number of such names is twenty-three. Of the names concerned one (*Podura* Linnaeus) has since been dealt with separately by the International Commission (in *Opinion* 239). The number of names dealt with in the present *Direction* is thus twenty-two. The proposals which formed the basis of the decisions taken by the Commission in the present case were submitted by the Secretary in the following paper on 31st May 1956 :—

**Proposed addition to the “ Official List of Specific Names in Zoology ”**  
 (a) of the specific names of nineteen species belonging to the Class Insecta, each of which is the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936 and (b)  
 of the specific names of three species belonging to the same Class which are currently treated as senior subjective synonyms of the names of such species

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains the fifth instalment of proposals for giving effect to the General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that in every case where

the specific name of the type species of a genus, the name of which had been placed on the *Official List of Generic Names in Zoology* prior to the meeting of that Congress, is the oldest available name for the species concerned that name shall be placed on the *Official List of Specific Names in Zoology* and that in other cases the specific name currently regarded as the oldest available subjective synonym of that name shall be similarly placed on that *List*. The immediately preceding instalment was concerned with the names of the type species of genera belonging to the Classes Cyclostomata, Pisces, Amphibia and Reptilia (Z.N.(S.) 1014) and was submitted to the International Commission with Voting Paper V.P.(O.M.)(56)5 on 25th April 1956.<sup>1</sup>

2. The proposals now submitted relate to the names of the type species of genera belonging to the Class Insecta, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. The total number of generic names involved is twenty-three. These names were placed on the *Official List* in the following *Opinions*: *Opinion* 81 (one name); *Opinion* 82 (one name); *Opinion* 104 (fifteen names); *Opinion* 106 (five names); *Opinion* 128 (one name). Of the names concerned, one (*Podura* Linnaeus, 1758) has since been the subject of action by the Commission under its Plenary Powers (*Opinion* 239). The number of generic names which it is necessary to consider on the present occasion is therefore twenty-two.

3. On the present, as on previous similar occasions, the search of the literature undertaken by the Office of the Commission for the purpose of checking and completing the entries made on the *Official List* in the period under review has disclosed a number of problems which call for individual action by the International Commissions. These problems have been discussed in a paper numbered Z.N.(S.)1017 which is being submitted to the Commission with Voting Paper V.P.(O.M.)(56)11 simultaneously with the Present Voting Paper.<sup>2</sup>

4. The elucidation of the problems discussed in the paper referred to above has been rendered possible by the co-operation and assistance afforded by a number of specialists in the Orders of insects concerned. To all of these the grateful thanks of the International Commission are due. The specialists concerned, together with particulars (a) of their present appointments or the appointments which they held at the

<sup>1</sup> The decision by the Commission on the above matters has since been embodied in *Direction* 57 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 1(D) : 365—388).

<sup>2</sup> A decision has since been taken by the Commission on the problems here referred to and has been embodied in *Direction* 63, which is being published simultaneously with the present *Direction*.

time when consultations took place and (b) of the Orders of insects, on the names of genera of which assistance has been afforded, are the following :—

W. E. China (*British Museum (Natural History), London*) (Hemiptera)

Tadeusz Jaczewski (*Polish Academy of Sciences, Institute of Zoology, Warsaw*) (Hemiptera)

Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts*) (Diptera ; Siphonaptera)

Frederick Laing (*British Museum (Natural History), London*) (Anoplura)

N. D. Riley (*British Museum (Natural History), London*) (Anoplura ; Dermaptera ; Orthoptera)

John Smart (*Department of Zoology, Cambridge University, Cambridge*) (Diptera)

B. P. Uvarov (*Director, Anti-Locust Research Centre, London*) (Dermaptera ; Orthoptera).

5. The investigations carried out show that in the case of nineteen of the genera concerned the specific name of the type species is the oldest available name for the species concerned. These names are enumerated in Annexe 1 to the present paper. In the case of the remaining three genera, the specific name of the type species is regarded by specialists as a junior subjective synonym of an older available name. Particulars of these cases are given in Annexe 2.

6. It is recommended that in accordance with the General Directive referred to in paragraph 1 of the present paper the International Commission should place on the *Official List of Specific Names in Zoology* :—

- (1) the nineteen specific names enumerated in Col. (1) of Annexe 1, each of which is (a) the specific name of the type species of a genus of insects placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and (b) is accepted by specialists as the oldest available name for the species concerned ;
- (2) the three specific names specified in Col. (1) of Annexe 2, each of which is currently treated by specialists (a) as a senior subjective synonym of the name of the type species of a genus, the name of which was placed on the *Official List* in the period referred to above and (b) as the oldest available name for the species concerned.

## ANNEXE 1

Specific names of type species of genera of the Class Insecta now proposed to be placed on the "Official List of Specific Names in Zoology"

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name specified<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                                       | (3)                                                                                       |
| <b>Order Hemiptera</b>                                                                                             |                                                                                           |                                                                                           |
| <b>"Opinion" 81</b>                                                                                                |                                                                                           |                                                                                           |
| <i>lectularius</i> Linnaeus,<br>1758                                                                               | <i>Cimex lectularius</i>                                                                  | <i>Cimex</i> Linnaeus,<br>1758                                                            |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>nemorum</i> Linnaeus,<br>1761                                                                                   | <i>Cimex nemorum</i>                                                                      | <i>Anthocoris</i> Fallén,<br>1814                                                         |
| <i>glauca</i> Linnaeus,<br>1758                                                                                    | <i>Notonecta glauca</i>                                                                   | <i>Notonecta</i> Linnaeus,<br>1758                                                        |
| <i>personatus</i> Linnaeus,<br>1758                                                                                | <i>Cimex personatus</i>                                                                   | <i>Reduvius</i> Fabricius,<br>1775                                                        |
| <b>Order Diptera</b>                                                                                               |                                                                                           |                                                                                           |
| <b>"Opinion" 82</b>                                                                                                |                                                                                           |                                                                                           |
| <i>domestica</i> Linnaeus,<br>1758                                                                                 | <i>Musca domestica</i>                                                                    | <i>Musca</i> Linnaeus,<br>1758                                                            |
| <b>"Opinion" 106</b>                                                                                               |                                                                                           |                                                                                           |
| <i>trompe</i> Modeer, 1786                                                                                         | <i>Oestrus trompe</i>                                                                     | <i>Cephenemyia</i><br>Latreille, 1818                                                     |
| <i>bovis</i> Linnaeus, 1758                                                                                        | <i>Oestrus bovis</i>                                                                      | <i>Hypoderma</i><br>Latreille, 1818                                                       |
| <i>tarandi</i> Linnaeus, 1758                                                                                      | <i>Oestrus tarandi</i>                                                                    | <i>Oedemagena</i><br>Latreille, 1818                                                      |
| <i>ovis</i> Linnaeus, 1758                                                                                         | <i>Oestrus ovis</i>                                                                       | <i>Oestrus</i> Linnaeus,<br>1758                                                          |
| <b>"Opinion" 128</b>                                                                                               |                                                                                           |                                                                                           |
| <i>pedicularia</i> Latreille,<br>[1804—1805]                                                                       | <i>Nycteribia<br/>pedicularia</i>                                                         | <i>Nycteribia</i> Latreille,<br>1796                                                      |



Specific name  
proposed to be  
placed on the  
"Official List of  
Specific Names in  
Zoology"

Combination in  
which name specified  
in Col. 1 was  
originally published

Name of genus of  
which species specified  
in Col. 1 is the  
type species

(1)

(2)

(3)

**Order Orthoptera****"Opinion" 104**

*orientalis* Linnaeus,  
1758  
*lapponica* Linnaeus,  
1758  
*campestris* Linnaeus,  
1758  
*americana* Linnaeus,  
1758

*Blatta orientalis*  
*Blatta lapponica*  
*Gryllus campestris*  
*Blatta americana*

*Blatta* Linnaeus,  
1758  
*Ectobius* Stephens,  
1835  
*Gryllus* Linnaeus,  
1758  
*Periplaneta*  
Burmeister, 1838

**Order Dermaptera****"Opinion" 104**

*auricularia* Linnaeus,  
1758

*Forficula  
auricularia*

*Forficula* Linnaeus,  
1758

**Order Anoplura****"Opinion" 104**

*humanus* Linnaeus,  
1758  
*pubis* Linnaeus, 1758

*Pediculus humanus*  
*Pediculus pubis*

*Pediculus* Linnaeus,  
1758  
*Pthirus* [Leach],  
[1815]

**Order Siphonaptera****"Opinion" 104**

*irritans* Linnaeus,  
1758

*Pulex irritans*

*Pulex* Linnaeus,  
1758

**Order Thysanura****"Opinion" 104**

*saccharina* Linnaeus,  
1758

*Lepisma saccharina*

*Lepisma* Linnaeus,  
1758

## ANNEXE 2

Specific names of three nominal species which are subjectively identified with nominal species of later date, which are the type species of genera, the names of which were placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Remarks<br/>(not for inclusion in the entry to be made in the "Official List")</i> |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

## Order Hemiptera

## "Opinion" 104

- |                                                                                                  |                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>ferus</i> Linnaeus, 1758 as published in the combination <i>Cimex ferus</i>                   | a senior subjective synonym of <i>vagens</i> Fabricius, 1787, as published in the combination <i>Cimex vagans</i> , the specific name of the type species of <i>Nabis</i> Latreille, [1802—1803] |
| <i>rubrofasciatus</i> De Geer, 1773, as published in the combination <i>Cimex rubrofasciatus</i> | a senior subjective synonym of <i>gigas</i> Fabricius, 1775, as published in the combination <i>Reduvius gigas</i> , the specific name of the type species of <i>Triatoma</i> Laporte, [1832]    |

## Order Diptera

## "Opinion" 106

- |                                                                                                |                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>intestinalis</i> De Geer, 1776, as published in the combination <i>Oestrus intestinalis</i> | a senior subjective synonym of <i>equi</i> Clark, 1797, as published in the combination <i>Oestrus equi</i> , the specific name of the type species of <i>Gasterophilus</i> Leach, 1817 |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

2. **Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of the addition to the *Official List of Specific Names in Zoology* of the specific names of the type species of genera belonging to the Class Insecta, the names of which had been placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1016.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)12 :** On 31st May 1956 a Voting Paper (V.P.(O.M.)(56)12) was issued in which each Member of the Commission was asked (1) to state whether he agreed " that, in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1936, the names of species in the Class Insecta referred to in Sections (1) and (2) of paragraph 6 of the paper bearing the Registered Number Z.N.(S.) 1016, submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be placed on the *Official List of Specific Names in Zoology* and that the other action recommended in the said paragraph be similarly approved " and (2), if he did not agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 1st July 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)12 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)12 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Kühnelt ; Lemche ; Sylvester-Bradley ; Mayr ; Holthuis ; Dymond ; Hering ; Boschma ; Prantl ; Jaczewski ; Stoll ; Key ; Vokes ; Esaki ; Bradley (J.C.) ; Cabrera ; Hemming ; Riley ; Mertens ; Bonnet ; Hankó ; Tortonese ; do Amaral ;

(b) *Negative Votes* :

None ;

(c) *Voting Papers not returned, one (1)* :

Miller.

**6. Declaration of Result of Vote :** On 2nd July 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.) (56)12, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 12th February 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)12.

**8.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**9.** The present *Direction* shall be known as *Direction Sixty-Four* (64) of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of February, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

**VOLUME 1. SECTION E. Part E.5. Pp. 75—84**

## **DIRECTION 65**

Determination of the form to be adopted for the name  
of the XVIIIth Century Viennese medical practitioner  
commonly known as "Laurenti"

**LONDON :**

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 65

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

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Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 65

### DETERMINATION OF THE FORM TO BE ADOPTED FOR THE NAME OF THE XVIIIITH CENTURY VIENNESE MEDICAL PRACTITIONER COMMONLY KNOWN AS “ LAURENTI ”

**RULING :—**(1) It is hereby ruled :—

- (a) that the name of the author of the work relating to snakes and snake venoms bearing the title “ Specimen medicum ” published in Vienna in 1768 was “ Laurenti ” ;
- (b) that the foregoing does not exclude the possibility that Laurenti may also have used a Latinised version of his name, though there is no evidence that he ever did so ;
- (c) that, if Laurenti had ever employed such a version of his name, the correct form of that name would have been “ Laurentius ” and not “ Laurentus ”.

(2) It is hereby directed that, when any zoological name published by the foregoing author is cited either in an *Official List* or in an *Official Index*, the name of the author is to be cited in the form “ Laurenti ”.

(3) The title of the under-mentioned work by Laurenti is hereby placed on the *Official List of Works Approved as Available for Zoological Nomenclature* with the Title Number 29, and with an endorsement in the terms specified in (1) above :—

Laurenti (J.N.), 1768, *Specimen medicum, exhibens Synopsin Reptilium emendatam cum Experimentis circa Venena et Antidota Reptilium austriacorum.*

## I. THE STATEMENT OF THE CASE

The present *Direction*, the need for which came to light in connection with the preparations for the publication of the *Official Lists* in book-form, is based upon proposals submitted to the International Commission on Zoological Nomenclature by the Secretary in the following paper on 18th December 1956 :—

**Request for a ruling as to the form to be adopted for the name of the XVIIIth century Viennese medical practitioner commonly known as "Laurenti" when citing the name of that author in entries on the "Official Lists" and "Official Indexes"**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present note is to obtain directions from the International Commission on Zoological Nomenclature as to the form to be adopted for the name of the XVIIIth century Viennese medical practitioner commonly known as "Laurenti", when citing the name of that author in entries on the *Official Lists* and *Official Indexes*. Instructions on this matter are required in connection with the arrangements now well advanced for the publication of the foregoing *Lists* and *Indexes* in book-form. The relevant particulars are given below.



2. The author referred to above is only known to have written one work which was published in Vienna in 1768 with the following Latin title :—

*IOSEPHI NICOLAI LAURENTI, austriaci viennensis, Specimen medicum, exhibens Synopsis Reptilium emendatum cum Experimentis circa Venena et Antidota Reptilium austriacorum.*

3. The question to be decided is whether the name of the author of the above work should, as hitherto, be treated as having been "Laurenti" or whether the Latinised version "Laurentius" is the correct form of this name. This question was raised some years ago by Dr. Heinz Wermuth (*Zoologisches Museum, Berlin*) who there advocated the adoption of the Latinised version of the name of the author of the *Specimen medicum* (Wermuth, 1950, *Deuts. zool. Z.* 1(2) : 83, *nota*). The passage in question reads as follows : "Im allgemeinen wird dieser Autor als 'Laurenti' zitiert. Der Titel seiner Publikation lautet aber : 'Iosephi Nicolai Laurenti . . . specimen medicum, . . .', und hierin erscheint der Name in Genitiv. Der Nominativ heisst hiernach Laurentus (Latinisierung von Lorenz ?) und nicht Laurenti (us) da er sonst im 2 Fall zu Laurentii ungewandelt werden müsste".

4. Quite recently (September 1956) Dr. Wermuth and I agreed that it was unsatisfactory that the above matter should be left in an indeterminate state and that in the interests of uniformity it was desirable that an authoritative Ruling should be obtained from the International Commission on Zoological Nomenclature. It was agreed between us that for this purpose an investigation of contemporary and near-contemporary zoological or medical literature was necessary in order to ascertain whether there existed any references which might throw light on the question of the correct form of the name of the author in question. Second, there was the subsidiary question of what would be the correct Latin form for this man's name if it were to be established that his name ought to be cited in Latinised form.

5. On the first of these questions I was fortunate in being able to draw upon the unrivalled knowledge of medical history possessed by Professor Charles Singer, Professor Emeritus of the History of Medicine at University College in the University of London. Professor Singer whom I consulted during a visit which I paid to him at the time when this investigation was in progress suggested that as a start we should consult the monumental *Dictionnaire historique de la Médecine ancienne et moderne* produced in the early part of the XIXth century by Jean-Eugène Dezeimeris (b. 1790 ; d. 1852). Reference to the volume of this work published in 1837 (2(2)) : 409) at once established

that the author whose name we were investigating had in fact been known by the name "Laurenti". The passage in question reads as follows :—

LAURENTI (Joseph Nicolas), médecin praticien à Vienne, mort le 17 février 1805, à l'âge de soixante-dix ans, se fit connaître par sa dissertation inaugurale, dans laquelle il traite des reptiles réputés venimeux en général, et de ceux de l'Autriche en particulier. Il démontra, par le rapprochement des observations publiées, et surtout par un grand nombre d'expériences sur des animaux, que beaucoup de reptiles regardés par le peuple comme extrêmement venimeux étaient incapables de produire chez l'homme des accidens sérieux, ou ne faisaient que des blessures tout-à-fait insignifiantes. Laurenti n'a rien écrit depuis cette dissertation ; en voici le titre : [Here follows the title of the *Specimen medicum*].

6. Immediately after my return to London from Cornwall (where Professor Singer now lives) I received the following Report (dated 13th October 1956) from Professor L. W. Grensted, Consulting Classical Adviser to the International Commission, which, while not throwing any light on the name of the individual with whom we are here concerned, showed that the version "Laurenti" was an acceptable name :—

I have now done a little more research into this, both in the Bodleian Library Catalogue and in that of the British Museum.

I find that "Laurenti" is a good name-form. There are books by Bartolomeo Laurenti published at Bologna in 1691 (i.e. Italian) and by Paul-Etienne Laurenti at Bordeaux in 1898 (i.e. French).

7. On 14th November 1956 Mr. A. Cockburn Townsend, Librarian to the British Museum (Natural History) furnished the following information bearing upon the form of the name of the man with whom we are concerned and supporting the conclusion that the proper form of his name was "Laurenti" :—

I think that there is little doubt that the vernacular form of the author's name is "Laurenti". Fitzinger, in an historical account of the Vienna Zoologisch-Botanische Gesellschaft (*SitzBer Acad. Wien*, 1856, 21 : 443) mentions a certain collection as that upon which "Laurenti" founded his *Specimen medicum* ; Engelmann, *Bibl. Hist. nat.*, 1846 : 698, cites "Laurenti" in the Index, as does Cobres, *Delic. Cobres*, 1782, p. 851.

In more recent works, such as Meyers, *Konversations-Lexicon* and the *Enciclopedia Italiana*, the name is also given as "Laurenti". Sherborn's original slip for the *Index Animalium* has "Laurenti" on it in two places.

8. The evidence set out above appears to me to show conclusively that the man with whom we are concerned was known by the name "Laurenti", though this does not exclude the possibility that in addition he was sometimes known also by a Latinised version of his name.

9. In these circumstances the question of what would be the correct Latinised form for a Latinised version of this man's name assumes much less importance than appeared likely at the beginning of the present investigation. It must be noted, however, that both the specialists (L. W. Grensted ; A. Cockburn Townsend) who have advised on this subject are of the opinion that the correct form would be "Laurentius" and not "Laurentus". In this connection the latter has recalled that in Latin proper names ending with the termination "-ius" are declined like *filius*, of which the genitive singular is either *fili* or *fili*. The contracted genitive singular in "-i" is often found in the classical writers.

10. Since the completion of the present investigation, I have been in consultation with Dr. Heinz Wermuth (by whom as already explained, the present matter was first raised) and also with Professor Robert Mertens (*Frankfurt a. M.*), who had expressed interest in the matter in view of his having an application before the International Commission which involves a name first published in the *Specimen medicum*.<sup>1</sup> Both these specialists share my conclusion that the International Commission should be asked to give a Ruling in this sense. Since the present application is concerned with the name of a nomenclatorially available book, it will be necessary under the General Directives given to the Commission by the International Congresses of Zoology for the title of Laurenti's *Specimen medicum* of 1768 to be placed on the *Official List of Works Approved as Available for Zoological Nomenclature* with an endorsement, as suggested above, as to the correct form of its author's name.

11. I accordingly ask the International Commission on Zoological Nomenclature :—

(1) to give a Ruling :—

- (a) that the name of the author of the work entitled *Specimen medicum* . . . published in 1768 was "Laurenti" ;
- (b) that the foregoing does not exclude the possibility that Laurenti may also have used a Latinised version of his name, though there is no evidence that he ever did so ;
- (c) that if Laurenti had ever employed such a version of his name, the correct form would have been "Laurentius" and not "Laurentus" ;

<sup>1</sup> The application here referred to related to the name *Hyla venulosa* Laurenti, 1768. It was published on 31st October 1956 (*Bull. zool. Nomencl.* 12 : 287.)

- (2) to direct that, when any name published by the foregoing author is cited either in an *Official List* or in an *Official Index*, the name of the author is to be entered as "Laurenti";
- (3) to place the title of the work by Laurenti published in 1768 under the title *Specimen medicum . . .* on the *Official List of Works Approved as Available for Zoological Nomenclature* with the endorsement as to the form of the name of the author as specified in (1) above.

**2. Registration of the present application :** Upon the receipt of the paper by the Secretary reproduced in paragraph 1 above, the question of the form to be adopted for the name of the author commonly known as "Laurenti" was allotted the Registered Number Z.N.(S.) 1164.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)30 :** On 18th December 1956 a Voting Paper (V.P.(O.M.)(56)30) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the correct form of the name of the author of the work published in 1768 under the title *Specimen medicum*, commonly known as "Laurenti", recommended in paragraph 11 of the memorandum by the Secretary, numbered Z.N.(S.) 1164, submitted simultaneously with the present Voting Paper" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 18th January 1957.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)30 :**

At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)30 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Riley ; Mayr ; Mertens ; Sylvester-Bradley ; Holthuis ; Hering ; do Amaral ; Lemche ; Bradley (J.C.) ; Miller ; Key ; Esaki ; Boschma ; Stoll ; Tortonese ; Cabrera ; Jaczewski ; Vokes ; Hemming ; Kühnelt ; Bodenheimer ; Bonnet ; Dymond ;

- (b) *Negative Votes, one (1) :*

Prantl ;

- (c) *Prevented from Voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

- (d) *Voting Papers not returned :*

None.

**6. Declaration of Result of Vote :** On 19th January 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(56)30, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

7. **Preparation of the Ruling given in the present “ Direction ” :** On 14th February 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)30.

8. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

9. The present *Direction* shall be known as *Direction Sixty-Five* (65) of the International Commission on Zoological Nomenclature.

DONE in London, this Fourteenth day of February, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.6. Pp. 85—110

## **DIRECTION 66**

Completion and in certain cases correction of entries relating to the names of genera belonging to the Phylum Arthropoda, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 66

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

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Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTIENESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)



## DIRECTION 66

COMPLETION AND IN CERTAIN CASES CORRECTION OF ENTRIES RELATING TO THE NAMES OF GENERA BELONGING TO THE PHYLUM ARTHROPODA, THE NAMES OF WHICH WERE PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936, OTHER THAN ENTRIES RELATING TO THE NAMES OF GENERA BELONGING TO THE CLASS INSECTA AND TO THE ORDER DECAPODA OF THE CLASS CRUSTACEA

**RULING :—**(1) In the case of each of the under-mentioned generic names the entry made on the *Official List of Generic Names in Zoology* by the Rulings given in the *Opinions* severally specified below is hereby completed by the insertion of a statement that the type species of the genus so named was determined by selection under Rule (g) in Article 30 by the author and on the date specified in each case below :—

(a) Names of genera belonging to the Class Crustacea :

(i) *Lepas* Linnaeus, 1758 (Order Cirripedia) (*Opinion* 77) by selection by Pilsbry (1907) ;

(ii) *Gammarus* Fabricius, 1775 (Order Amphipoda) (*Opinion* 104) : by selection by Latreille (1810) ;

(b) Names of genera belonging to the Class Arachnida :

(iii) *Latrodectus* Walckenaer, 1805 (*Opinion* 104) : by selection by Latreille (1810) ;

- (iv) *Amblyomma* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (v) *Dermacentor* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (vi) *Haemaphysalis* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (vii) *Rhipicephalus* Koch, 1844 (*Opinion* 73) : by selection by Neumann (1901) ;
- (viii) *Trombidium* Fabricius, 1775 (*Opinion* 104) : by selection by Latreille (1810).

(2) The entry on the *Official List of Generic Names in Zoology* relating to the generic name *Diaptomus* Westwood, 1836 (Class Crustacea, Order Copepoda) is hereby completed by the insertion of a statement that the type species of the genus so named was determined "by original designation".

(3) The incorrect reference for the selection of a type species for the genus *Dendryphantès* Koch, 1837 (Class Arachnida) made in the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 is hereby deleted and the following amended reference is substituted therefor : Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 1) (No. 1) : 214.

(4) The words "type species, by monotypy" are hereby substituted for the words "type species by original designation" in the entry relating to the determination of the type species of the genus *Rhizoglyphus* Claparède, [1869] (Class Arachnida) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(5) The date "[1803—1804]" is hereby substituted for the date "1804" as the date to be attributed to the generic name *Porcellio* Latreille (Class Crustacea, Order Isopoda) in the entry relating to that name made on the

*Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(6) In the entry relating to the generic name *Dysdera* Latreille, [1804] (Class Arachnida) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 :—

(a) the words “*Aranea punctoria* Villers, 1789, *Linn. Ent.* 4 : 128 ” are hereby substituted for the words “*punctoria* Latr. 1804 ” in the portion of the entry relating to the name of the type species of the above genus ;

(b) all references to the name *Aranea erythrina* Walckenaer, 1802, as being a senior subjective synonym of *Aranea punctoria* (wrongly attributed in the above *Opinion* to Latreille) are hereby deleted.

(7) The date “ [1802—1803] ” is hereby substituted for the date “ 1802 ” as the date to be attributed to the generic name *Polydesmus* Latreille (Class Diplopoda) in the entry relating to that name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(8) In the entry relating to the generic name *Psoroptes* Gervais, 1841 (Class Arachnida), made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 the words “*equi* Gerv.” are hereby deleted from the portion relating to the name of the type species of the above genus and the following amended entry is hereby inserted : “*Sarcoptes equi* Raspail, 1834, *Bull. gén. Thé. méd. chir.*, Paris 7 (Suppl.) : 182 ”.

(9) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Avicularia* Gray (J.E.), 1848 (a junior homonym of *Avicularia* Lamarck, 1818) (Name No. 950) ;
- (b) The under-mentioned names, each of which is an Erroneous Subsequent Spelling of *Cheyletus* Latreille, 1796 :—
- (i) *Cheylatus* Mégnin, 1878 (Name No. 951) ;
- (ii) *Cheyletes* Sundevall, 1833 (Name No. 952) ;
- (iii) *Cheylutus* Oudemans, 1906 (Name No. 953) ;
- (c) *Latrodectes* Canestrini & Pavesi, 1869 (an Invalid Emendation of *Latrodectus* Walckenaer, 1805) (Name No. 954) ;
- (d) *Lepas* da Costa, 1778 (a junior homonym of *Lepas* Linnaeus, 1758) (Name No. 955) ;
- (e) *Spinturnia* Van der Hoeven, 1849 (an Invalid Emendation of *Spinturnix* van Heyden, 1826) (Name No. 956) ;
- (f) *Trombidion* Agassiz (J.L.R.), 1845 (an Invalid Emendation of *Trombidium* Fabricius, 1775) (Name No. 957).

(10) The under-mentioned specific names, each of which was suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128, are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *vespertilionis* Linnaeus, 1758, as published in the combination *Pediculus vespertilionis* (Name No. 399) ;

- (b) *vespertilionis* Dugès, 1834, as published in the combination *Dermanyssus vespertilionis* (Name No. 400) ;
- (c) *vespertilionis* Schrank, 1803, as published in the combination *Hippobosca vespertilionis* (Name No. 401) ;
- (d) *vespertilionis* Hermann, 1804, as published in the combination *Phthiridium vespertilionis* (Name No. 402) ;
- (e) *vespertilionis* Dufour, 1832, as published in the combination *Pteroptus vespertilionis* (Name No. 403).

(11) All usages of the under-mentioned specific name in combination with the generic names severally specified below, each of which usage was suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128, are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers specified against each of the usages in question :—

- (a) *vespertilionis*, all usages of, in combination with the generic name *Acarus* Linnaeus, 1758 (Name No. 404) ;
- (b) *vespertilionis*, all usages of, in combination with the generic name *Acrocholidia* Kolenati, 1857 (Name No. 405) ;
- (c) *vespertilionis*, all usages of, in combination with the generic name *Celeripes* Montagu, 1808 (Name No. 406) ;
- (d) *vespertilionis*, all usages of, in combination with the generic name *Diplostaspis* Kolenati, 1857 (Name No. 407) ;

- (e) *vespertilionis*, all usages of, in combination with the generic name *Gamasus* Latreille, [1802—1803] (Name No. 408) ;
- (f) *vespertilionis*, all usages of, in combination with the generic name *Ichoronyssus* Kolenati, 1858 (Name No. 409) ;
- (g) *vespertilionis*, all usages of, in combination with the generic name *Liponissus* [sic] Kolenati, 1858 (Name No. 410) ;
- (h) *vespertilionis*, all usages of, in combination with the generic name *Listropoda* Kolenati, 1857 (Name No. 411) ;
- (i) *vespertilionis*, all usages of, in combination with the generic name *Megistopoda* Macquart, 1852 (Name No. 412) ;
- (j) *vespertilionis*, all usages of, in combination with the generic name *Nycteribia* Latreille, 1796 (Name No. 413) ;
- (k) *vespertilionis*, all usages of, in combination with the generic name *Penicillidia* Kolenati, 1863 (Name No. 414) ;
- (l) *vespertilionis*, all usages of, in combination with the generic name *Periglischrus* Kolenati, 1857 (Name No. 415) ;
- (m) *vespertilionis*, all usages of, in combination with the generic name *Sarcoptes* Latreille, [1802—1803] (Name No. 416) ;
- (n) *vespertilionis*, all usages of, in combination with the generic name *Spinturnix* van Heyden, 1826 (Name No. 417) ;

- (o) *vespertilionis*, all usages of, in combination with the generic name *Strebla* Wiedemann, 1824 (Name No. 418).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* contains decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing and, where necessary, correcting, the entries in regard to the names of genera belonging to the Phylum Arthropoda placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea which have already been subjected to a similar review in *Direction 37* and *Direction 63* respectively. The purpose of the review so undertaken was to bring the entries concerned up to the state required for inclusion in the first instalment of the *Official List*, the preparations for the publication of which in book-form are now well advanced. The proposals on which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 11th June 1956 in the following paper :—

**Proposed completion and correction of certain entries relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea, the names of which were placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains particulars of various minor errors and omissions in the entries relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class

Insecta and to the Order Decapoda of the Class Crustacea; made in the *Official List of Generic Names in Zoology* in the period up to the end of 1936. In the case of the entries relating to nine generic names belonging to the foregoing group, no recommendations are submitted, either because serious defects have been found in the entries made on the *Official List* in regard to these names or because it has so far proved impossible to obtain all the information needed to complete the entries made on the *List*. The generic names, the entries relating to which have been postponed for one or other of the foregoing reasons are the following: (i) *Armadillidium* Brandt & Ratzeburg, [1831]; (ii) *Oniscus* Linnaeus, 1758; (iii) *Argas* Latreille, 1795; (iv) *Hyalomma* Koch, 1844; (v) *Ixodes* Latreille, 1795; (vi) *Chorioptes* Gervais & van Beneden, 1859; (vii) *Dermanyssus* Dugès, 1834; (viii) *Glycyphagus* Hering, 1838; (ix) *Sarcoptes* Latreille, [1801—1802]. Subject to the above exceptions proposals are now submitted for rectifying all the errors and omissions which have come to light. At the same time proposals are submitted for the addition to the *Official Indexes of Rejected and Invalid Names* of various objectively invalid names involved in connection with the entries on the *Official List* now under consideration.

2. The problems discussed in the present paper came to notice in the course of work in the Office of the Commission in connection with the forthcoming publication of the *Official List* in book-form. In the subsequent investigations most valuable assistance has been received from a number of specialists to whom the grateful thanks of the Commission are due. The names of the specialists who have assisted in this way are given in the following list, in which also have been incorporated (a) particulars of their present appointments or of the appointments which they held at the time when the consultations took place and (b) particulars of the Classes of the Animal Kingdom on the names of genera of which assistance has been afforded:—

Pierre Bonnet (*Université de Toulouse, Faculté des Sciences, Laboratoire de Zoologie, Toulouse*) (Class Arachnida)

H. Boschma (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (Class Diplopoda)

Walter E. Collinge (*York, England*) (Class Arachnida)

G. O. Evans (*British Museum (Natural History), London*) (Class Arachnida)

J. P. Harding (*British Museum (Natural History), London*) (Class Crustacea)

Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts.*) (Class Trilobita; Class Crustacea)



Herbert W. Levi (*University of Wisconsin, Department of Zoology, Madison, Wisconsin, U.S.A.*) (Class Arachnida)

F. A. Turk (*Camborne, Cornwall, England*) (Class Arachnida)

R. J. Whittick (*British Museum (Natural History), London*) (Class Arachnida)

3. The questions dealt with in the present paper fall into three well-defined groups, namely (a) cases where no information or incorrect information as to how the type species of genera had been determined under Article 30 was given when the generic names in question were placed on the *Official List*; (b) cases where names were attributed to wrong authors or to wrong dates or for which wrong bibliographical references were cited when the generic names concerned were placed on the *Official List*; (c) the addition to the *Official Indexes of Rejected and Invalid Names* of objectively invalid names involved in connection with names falling in the group covered by the present paper.

**(1) Proposed insertion in the " Official List of Generic Names in Zoology " of particulars as to the method by which the type species for eleven genera were determined under Article 30 of the " Règles "**

4. In the case of nine genera no particulars as to how the type species of the genera concerned had been determined under Article 30 of the *Règles* were given when the generic names in question were placed on the *Official List*. In each case the requisite information has been obtained by the Office of the Commission. Full particulars are given in Annexe 1 to the present paper.

5. "*Dendryphantes*" Koch, 1837: The entry in *Opinion* 104 regarding the method by which the type species of this genus was determined reads as follows: "tsd (1869) *hastatus*". The reference clearly is to Thorell's work *On European Spiders*, where the type selection referred to above occurs on page 214. The title page of this work is dated "1869" (the year cited in *Opinion* 104), but only the first 208 pages were published in that year, the remainder being published in 1870. The title cited above is not the title of a separately published book, being no more than the title of a paper published in two instalments in a serial publication. The reference to be inserted in the *Official List* should be Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 2) (No. 1) : 214.

6. "*Rhizoglyphus*" Claparède, [1869]: In this case incorrect particulars as to how the type species had been determined were given in *Opinion* 104 when the name was placed on the *Official List*. It was

there stated that the type species had been determined by original designation, this being indicated by the use of the formula "tod". Inspection of Claparède's paper shows that the type species was not designated by that author. The type species cited in the *Official List* is, however, correct, the species concerned having been determined as such by monotypy.

**(2) Proposed correction of erroneous entries on the "Official List of Generic Names in Zoology" regarding the authorship, date and place of publication of four generic names made by the Ruling given in "Opinion" 104**

7. In the case of four generic names placed on the *Official List* by the Ruling given in *Opinion* 104 the entries made contained incorrect particulars regarding either the authorship to be attributed to the name in question or the date or place of publication of the name of the genus concerned or of its type species. Particulars of these errors are given in the following paragraphs, so that the necessary corrections may be made in the *Official List*.

8. "*Porcellio*" Latreille: This name was published in Volume 7 of the *Hist. nat. gén. partic. Crust. Ins.* This volume bears the date "An XII" in the French Revolutionary Calendar, i.e. it was published in the period September 1803 to September 1804. The date "[1803—1804]" should therefore be substituted for the date "1804" cited in *Opinion* 104.

9. "*Dysdera*" Latreille, [1804]: The type species of this genus was given in *Opinion* 104 as "*punctoria* Latr. 1804". The nominal species here referred to was established in the combination *Aranea punctoria*, which was first published not by Latreille in 1804 but by Villers in 1789 (*Linn. Ent.* 4: 128). *Opinion* 104 contained the following additional entry: "syn. *erythrina*". The nominal species here referred to is *Aranea erythrina* Walckenaer, 1802 (*Faun. Paris* 2: 224). From the standpoint of the author of *Opinion* 104, who (as noted above) believed that the name *punctoria* dated from 1804 (Latreille) that name was a junior subjective synonym of *erythrina* Walckenaer, 1802, but (as also noted above) the name *punctoria* was first published in 1789 (by Villers) and in consequence the name *erythrina* Walckenaer is no more than a junior subjective synonym of *punctoria*. This synonymy, even if generally accepted by taxonomists (a matter which appears to be doubtful) has therefore no bearing on the question of the name to be used for the type species of this genus.

10. "*Polydesmus*" Latreille: This name was published in Volume 3 of the *Hist. nat. gén. partic. Crust. Ins.*, the title page of which bears the date "An X", i.e. the period September 1801 to September 1802.

Griffin has shown (1938, *J. Soc. Bibl. nat. Hist.* **1** : 157), however, that this volume was not published until "An XI", i.e. not until the period September 1802 to September 1803. The name *Polydesmus* Latreille should therefore be dated "[1802—1803]". (By some inadvertence the name *Polydesmus* Latreille was placed in *Opinion* 104 in a list of genera of the Class Arachnida. I am indebted to Professor H. Boschma for drawing my attention to the fact that the taxon so named is really a myriapod (Class Diplopoda)).

11. "*Psoroptes*" Gervais, 1841 : The type species of this genus was given in *Opinion* 104 as "*equi* Gerv.". As used by Gervais, the specific name *equi* was not a new name. It was first published (in the combination *Sarcoptes equi*) by Raspail in 1834 (*Bull. gén. Thér. méd. chir.*, Paris **7** (Suppl.) : 182)

**(3) Proposed addition of certain objectively invalid generic names to the "Official Index of Rejected and Invalid Generic Names in Zoology"**

12. As in the case of the reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the review of the present group of generic names has brought to light a number of objectively invalid generic names which should now be placed on the *Official Index* established for recording the names of taxa of this category. The names concerned are set out in Annexe 2 to the present paper.

**(4) Proposed addition to the "Official Index of Rejected and Invalid Specific Names in Zoology" of certain specific names and usages of such names suppressed under the Plenary Powers by the Ruling given in "Opinion" 128**

13. By the Ruling given in *Opinion* 128 the International Commission, acting under its Plenary Powers, suppressed "the specific name *vespertilionis* of all authors for the following generic names". Here followed a list of twenty generic names, of which ten were the names of genera belonging to the Class Arachnida and ten were the names of genera belonging to the Class Insecta (Order Diptera (nine names) ; Order Anoplura (one name)). The generic names concerned were the following :—

(i) *Class Arachnida* :

(a) *Acarus* Linnaeus, 1758 ;

- (b) *Dermanyssus* Dugès, 1834 ;
- (c) *Diplostaspis* Kolenati, 1857 ;
- (d) *Gamasus* Latreille, [1802—1803] ;
- (e) *Ichoronyssus* Kolenati, 1858 ;
- (f) *Liponissus* [sic] Kolenati, 1858 ;
- (g) *Periglischrus* Kolenati, 1857 ;
- (h) *Pteroptus* Dufour, 1832 ;
- (i) *Sarcoptes* Latreille, [1802—1803] ;
- (j) *Spinturnix* van Heyden, 1826 ;

(ii) *Class Insecta, Order Diptera* :

- (a) *Acrocholidia* Kolenati, 1857 ;
- (b) *Celeripes* Montagu, 1808 ;
- (c) *Hippobosca* Schrank, 1803 ;
- (d) *Listropoda* Kolenati, 1857 ;
- (e) *Megistopoda* Macquart, 1852 ;
- (f) *Nycteribia* Latreille, 1796 ;
- (g) *Penicillidia* Kolenati, 1863 ;
- (h) *Phthiridium* Hermann, 1804 ;
- (i) *Strebla* Wiedemann, 1824 ;

(iii) *Class Insecta, Order Anoplura* :

*Pediculus* Linnaeus, 1758.

14. The object of the Commission when taking the sweeping decisions described above was to put an end to the hopeless state of confusion which had arisen through the insuperable difficulties encountered by specialists in interpreting the nominal species *Pediculus vespertilionis* Linnaeus, 1758. This species had been regarded by some workers as belonging to one or other of a number of different genera of Arachnida, while by others it had been placed in a variety of genera of insects. In addition various later authors had added to the general state of confusion by giving the name *vespertilionis* to new nominal species erected by themselves. The result was that the name *vespertilionis* Linnaeus, 1758, had become so hopelessly compromised by the diverse interpretations which had been given to it that it had lost all practical utility. While the object of the Commission in taking the action set out in *Opinion* 128 was highly commendable, it must be admitted that the drafting of that *Opinion* was very unsatisfactory, when judged even by the standards of that day, for no bibliographical references were given for the names cited in it. These questions have

been investigated in the Office of the Commission for the purpose of preparing the ground for the recording of the Commission's decision on the *Official Index of Rejected and Invalid Specific Names in Zoology*. These investigations have established the fact that the name *vespertilionis* was published as the name for a new nominal species in four of the genera cited in *Opinion 128*, in addition to the genus *Pediculus* Linnaeus, 1758. The generic names concerned are : (1) *Dermanyssus* Dugès, 1834 ; (2) *Hippobosca* Schrank, 1803 ; (3) *Phthiridium* Hermann, 1804 ; (4) *Pteroptus* Dufour, 1832. Second, it has been found that the specific name *vespertilionis*, as published in combination with one or other of the foregoing genera, was referred to by the following five authors when establishing new nominal genera of their own. The genera concerned were : (a) *Celeripes* Montagu, 1808 ; (b) *Nycteribia* Latreille, 1796 ; (c) *Penicillidia* Kolenati, 1863 ; (d) *Spinturnix* van Heyden, 1826 ; (e) *Strebla* Wiedemann, 1824. Third, the investigations undertaken have established the place where the name *vespertilionis* as employed by one or other of the authors enumerated above in connection with the first group of names, (i.e. as employed by Dugès, Schrank, Hermann or Dufour) was later employed—either as a specific name or as a junior synonym of some other name—in combination with four more of the generic names specified in *Opinion 128*. The generic names so concerned are : (i) *Acarus* Linnaeus, 1758 (as used by Scopoli, 1763) ; (ii) *Acrocholidia* Kolenati, 1857 (as used by the same author in 1863) ; (iii) *Gamasus* Latreille, [1802—1803] (as used by the same author in 1817) ; (iv) *Listropoda* Kolenati, 1857 (as used by the same author in 1863). In the six remaining cases it has not been possible to trace where the name *vespertilionis* (as of some earlier author) was first cited as the name (or as a junior synonym of the name) of a species belonging to the genus concerned. The genera concerned are : *Diplostaspis* Kolenati, 1857 ; *Ichoronyssus* Kolenati, 1858 ; *Liponissus* Kolenati, 1858 ; *Megistopoda* Macquart, 1852 ; *Periglischrus* Kolenati, 1857 ; *Sarcoptes* Latreille, [1802—1803]. While it is unfortunate that it has not been found possible to ascertain in every case where the specific name *vespertilionis* was used either as a new name or as a later usage of a previously published name in each of the twenty nominal genera cited in *Opinion 128*, it may certainly be concluded that all uses of *vespertilionis* as a new name have been traced and that the references which are still missing are all to later usages of one or other of the names which have been traced.

15. It is necessary now to consider the procedure to be adopted for codifying the decision in relation to the specific name *vespertilionis* given in *Opinion 128*. In this connection two points must be noted, first, that the object of the above decision was to eliminate all uses of the compromised name *vespertilionis* in each of the twenty genera cited in the above *Opinion*, second, that, to secure this end, the Commission used its Plenary Powers. What is necessary now, in

order to give effect to the decision so taken is to place on record that the names concerned are to be regarded as having been suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy. This qualification, which, in accordance with the Directive given to the Commission by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 338—339), would automatically have been inserted in the Ruling given in *Opinion* 128 if that *Opinion* had been adopted subsequently to the Paris Congress, is essential, since it is only by this means that it is possible to ensure that the specific name *vespertilionis* can never be a valid name for a species in any of the genera cited in the above *Opinion*. As regards procedure it is proposed to follow the course set in previous somewhat similar cases namely that of placing on the *Official Index of Rejected and Invalid Specific Names in Zoology* (a) the five names, each consisting of the word *vespertilionis*, which were suppressed by the Commission under its Plenary Powers by the Ruling given in *Opinion* 128 and (b) all usages of the specific name *vespertilionis* in each of the remaining fifteen genera cited in the above *Opinion*. The formal recommendations required to give effect to the foregoing proposal are set out in Annexe 3 to the present paper. For the sake of completeness particulars are given in Annexe 4 of the earliest usages of the specific name *vespertilionis*, other than usages as a new name, which have so far been traced in the literature.

#### (5) Family-group-name problems

16. For a number of the genera, the names of which are dealt with in the present instalment of the review of entries on the *Official List of Generic Names in Zoology* made in the period up to the end of 1936, nominal family-group taxa have been established. As in previous instalments of the present review no proposals on this subject are submitted in the present paper, it having been decided that it would be better to conclude the survey of the problems directly associated with the generic names themselves and with the names of the type species of those genera before formulating proposals for the consideration of the Commission in regard to the family-group-name problems involved. It is considered that this procedure offers a twofold advantage, namely (1) that it ensures the completion at the earliest possible moment of the survey of the entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 which the Commission was charged to undertake by the Thirteenth International Congress of Zoology, Paris, 1948, (2) that it provides a little more time for the search of the literature for the publication of the family-group names involved, the collection of information regarding which is inevitably more laborious than the collection of information regarding the names of genera and species, there being no comprehensive works of reference dealing with family-group names.

## (6) Recommendations

17. In the light of the particulars relating to the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea, the names of which were placed on the *Official List* in the period up to the end of 1936 set out in the present survey, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* rendered in the foregoing period, issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names specified in Annexe 1 to the present paper the particulars there specified as to the manner in which the type species of the genus concerned was determined under Article 30 of the *Règles* (paragraph 4) ;
- (2) delete the incorrect reference for the selection of a type species for the genus *Dendryphantes* Koch, 1837, made on the *Official List* by the Ruling given in *Opinion* 104 and substitute therefor the following amended entry : Thorell, [1870], *Nova Acta K. Vet.-Soc.*, Upsala (3) 7 (Fasc. 1) (No. 1) : 214 (paragraph 5) ;
- (3) substitute the words “type species, by monotypy” for the words “type species, by original designation” in the entry on the *Official List* relating to the determination of the type species of the genus *Rhizoglyphus* Claparède, [1869] (paragraph 6) ;
- (4) substitute the date “[1803—1804]” for the date “1804” as the date of publication of the generic name *Porcellio* Latreille in the entry on the *Official List* relating to that name (paragraph 8) ;
- (5) substitute in the entry on the *Official List* relating to the generic name *Dysdera* Latreille, [1804] the words “*Aranea punctoria* Villers, 1789, *Linn. Ent.* 4 : 128” for the words “*punctoria* Latr. 1804” in the portion relating to the name of the type species of this genus, and at the same time delete from the foregoing entry all reference to the name *Aranea erythrina*

Walckenaer, 1802 cited in *Opinion* 104 as a senior subjective synonym of the name *punctoria* there (as noted above) incorrectly attributed to Latreille instead of to Villers (paragraph 9);

- (6) substitute the date "[1802—1803]" for the date "1802" as the date of publication of the name *Polydesmus* Latreille in the entry on the *Official List* relating to that name (paragraph 10);
- (7) delete from the *Official List* the words "equi Gerv." in the portion of the entry relating to the generic name *Psoroptes* Gervais, 1841, concerned with the type species of the genus so named and substitute therefor the entry "*Sarcoptes equi* Raspail, 1834, *Bull. gén. Thér. méd. chir.*, Paris 7 (Suppl.) : 182" (paragraph 11);
- (8) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Annexe 2 to the present paper (paragraph 12);
- (9) place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the specified names and the usages of such names enumerated in Annexe 3 to the present paper (paragraph 15).

## ANNEXE 1

**Proposals for the amplification and correction of entries made in the "Official List of Generic Names in Zoology" with regard to the method by which the type species of nine genera of the Phylum Arthropoda were determined under Article 30 of the "Règles"**

| <i>Name of Genus</i>            | <i>Entry relating to the determination of the type species now proposed to be inserted in the "Official List of Generic Names in Zoology"</i> |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Lepas</i> Linnaeus, 1758     | by subsequent selection by Pilsbry, 1907, <i>Bull. U.S. nat. Mus.</i> 60 : 79                                                                 |
| <i>Diaptomus</i> Westwood, 1836 | by original designation                                                                                                                       |
| <i>Gammarus</i> Fabricius, 1775 | by subsequent selection by Latreille, 1810, <i>Consid. gén. Anim. Crust. Arach. Ins.</i> : 423, 103.                                          |



|                                        |                                                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|
| <i>Latrodectus</i><br>Walckenaer, 1805 | by subsequent selection by Latreille, 1810,<br><i>Consid. gén. Anim. Crust. Arach. Ins.</i> :<br>424, 125  |
| <i>Amblyomma</i> Koch,<br>1844         | by subsequent selection by Neumann,<br>1901, <i>Mém. Soc. zool. France</i> <b>14</b> : 340                 |
| <i>Dermacentor</i> Koch,<br>1844       | by subsequent selection by Neumann,<br>1901, <i>Mém. Soc. zool. France</i> <b>14</b> : 340                 |
| <i>Haemaphysalis</i> Koch,<br>1844     | by subsequent selection by Neumann,<br>1901, <i>Mém. Soc. zool. France</i> <b>14</b> : 340                 |
| <i>Rhipicephalus</i> Koch,<br>1844     | by subsequent selection by Neumann,<br>1901, <i>Mém. Soc. zool. France</i> <b>14</b> : 340                 |
| <i>Trombidium</i> Fabricius,<br>1775   | by subsequent selection by Latreille, 1810,<br><i>Consid. gén. Anim. Crust. Arach. Ins.</i> :<br>425, 131. |

## ANNEXE 2

**Proposed addition of eight objectively invalid generic names to the  
“ Official Index of Rejected and Invalid Generic Names in Zoology ”**

1. *Avicularia* Gray (J.E.), 1848, *List Brit. Anim. Brit. Mus. (Centr.)* : 105, 146 (a junior homonym of *Avicularia* Lamarck, 1818, placed on the *Official List* in *Opinion* 104) ;
2. The under-mentioned Erroneous Subsequent Spellings for *Cheyletus* Latreille, 1796, placed on the *Official List* in *Opinion* 104 :—
  - (a) *Cheylatus* Mégnin, 1878, *J. Anat. Physiol. Paris* **14** : 421 ;
  - (b) *Cheyletes* Sundevall, 1833, *Consp. Arach. (2)* : 37 ;
  - (c) *Cheylutus* Oudemans, 1906, *Mém. Soc. zool. France* **19** : 212 ;
3. *Latrodectes* Canestrini & Pavesi, 1869, *Atti Soc. Ital.* **11** (No. 3) : 45 (an Invalid Emendation of *Latrodectus* Walckenaer, 1805, placed on the *Official List* in *Opinion* 104) ;
4. *Lepas* da Costa, 1778, *Brit. Conch.* : 1 (a junior homonym of *Lepas* Linnaeus, 1758, placed on the *Official List* in *Opinion* 77) ;
5. *Spinturnia* Van der Hoeven, 1849, *Handb. Dierk.* (ed. 2) **1** : 670 (an Invalid Emendation of *Spinturnix* van Heyden, 1826, placed on the *Official List* in *Opinion* 128) ;

6. *Trombidion* Agassiz, 1845, *Nomencl. zool.* (Arach.) : 13 (an Invalid Emendation of *Trombidium* Fabricius, 1775, placed on the *Official List* in *Opinion* 104).

## ANNEXE 3

**Proposed addition to the " Official Index of Rejected and Invalid Specific Names in Zoology " of certain objectively invalid specific names and usages of such names**

1. The under-mentioned specific names suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 128 :—
  - (a) *vespertilionis* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 611, as published in the combination *Pediculus vespertilionis* ;
  - (b) *vespertilionis* Dugès, 1834, *Ann. Sci. nat.*, Paris (2) (Zool.) **1** : 18, as published in the combination *Dermanyssus vespertilionis* ;
  - (c) *vespertilionis* Schrank, 1803, *Fauna boica* **3**(1) : 175, as published in the combination *Hippobosca vespertilionis* ;
  - (d) *vespertilionis* Hermann, 1804, *Mém. Apt.* : 120, as published in the combination *Phthiridium vespertilionis* ;
  - (e) *vespertilionis* Dufour, 1832, in Audouin, *Ann. Sci. nat.* Paris [1] **25** : 409, as published in the combination *Pteroptus vespertilionis* ;
2. *vespertilionis*, all uses of, in the genus *Acarus* Linnaeus, 1758 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
3. *vespertilionis*, all uses of, in the genus *Acrocholidia* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;

4. *vespertilionis*, all uses of, in the genus *Celeripes* Montagu, 1808 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
5. *vespertilionis*, all uses of, on the genus *Diplostaspis* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
6. *vespertilionis*, all uses of, in the genus *Gamasus* Latreille, [1802—1803] (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
7. *vespertilionis*, all uses of, in the genus *Ichoronyssus* Kolenati, 1858 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
8. *vespertilionis*, all uses of, in the genus *Liponissus* [sic] Kolenati, 1858 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
9. *vespertilionis*, all uses of, in the genus *Listropoda* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
10. *vespertilionis*, all uses of, in the genus *Megistopoda* Macquart, 1852 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
11. *vespertilionis*, all uses of, in the genus *Nycteribia* Latreille, 1796 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
12. *vespertilionis*, all uses of, in the genus *Penicillidia* Kolenati, 1863 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;

13. *vespertilionis*, all uses of, in the genus *Periglischrus* Kolenati, 1857 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
14. *vespertilionis*, all uses of, in the genus *Sarcoptes* Latreille, [1802—1803] (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
15. *vespertilionis*, all uses of, in the genus *Spinturnix* van Heyden, 1826 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)) ;
16. *vespertilionis*, all uses of, in the genus *Strebla* Wiedemann, 1824 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy (*Opinion* 128)).

## ANNEXE 4

**References to the places where the specific name “vespertilionis” of various authors was later cited in new combinations**

**(A) Five cases where an author when establishing a new nominal genus cited the name “vespertilionis” of an earlier author as the name of an included species or as a junior synonym of such a name**

- (1) *vespertilionis*, *Nycteribia* (Scopoli, 1763), Latreille, 1796, *Précis Caract. Ins.* : 176 (attributed by Latreille to Scopoli, whose usage was in turn only a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;
- (2) *vespertilionis*, *Celeripes* (Latreille, 1796) Montagu, 1808, *Trans. linn. Soc. Lond.* **9** : 166 (attributed to Latreille (*Nycteribia*) which, as shown in (1) above, was no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;
- (3) *vespertilionis*, *Strebla* (Schrank, 1803), Wiedemann, 1824, *Anal. Ent.* : 19 (identified by Wiedemann with *vespertilionis*, *Hippobosca*, Schrank, 1803) ;

(4) *vespertilionis*, *Spinturnix* (Scopoli, 1763) (van Heyden, 1826, Oken's *Isis* 1826 : 612 (attributed by van Heyden to Scopoli, 1763, which, as shown in (1) above, was no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(5) *vespertilionis*, *Penicillidia* (Dufour, 1832) Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 72 (treated by Kolenati as a later usage of *vespertilionis*, *Nycteribia*, Dufour, 1831 (*Ann. Sci. nat.*, Paris [1] 22 : 381) [nec *vespertilionis*, *Pteroptus*, Dufour, 1832, in Audouin, *Ann. Sci. nat.*, Paris [1] 25 : 409) ; Dufour's usage here was taken from Latreille, 1796, which, as shown in (1) above, is no more than a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758 ; the taxon cited by Dufour as *Nycteribia vespertilionis* "Latreille" re-named *Penicillidia dufouri* by Kolenati).

**(B) Three cases where the specific name "vespertilionis" Linnaeus, 1758, as published in the combination "Pediculus vespertilionis" was cited by later authors in a different combination**

(6) *vespertilionis*, *Acarus*, Scopoli, 1763, *Ent. carniol.* : 387 (as noted in (A) (1) above, a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(7) *vespertilionis*, *Gamasus*, Latreille, 1817, in Cuvier, *Règne Anim.* 3 : 118 (identified by Latreille, with Scopoli's usage of 1763, which, as noted in (6) above, was a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758) ;

(8) *vespertilionis*, *Listropoda*, Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 55 (attributed by Kolenati to Latreille, whose usage, as noted in (7) above, is a later usage of *vespertilionis*, *Pediculus*, Linnaeus, 1758 ; the taxon concerned re-named *Listropoda latreillei* by Kolenati).

**(C) One case where the specific name "vespertilionis" Hermann, 1804, as published in the combination "Phthiridium vespertilionis" was cited by a later author in a different combination**

(9) *vespertilionis*, *Acrocholidia*, Kolenati, 1863, *Hor. Soc. ent. ross.* 2 : 60—61 (the taxon named *Phthiridium vespertilionis* by Hermann in 1804; re-named *Acrocholidia montagui* by Kolenati).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of completing and, in certain cases, correcting in the manner proposed the entries relating to the names of genera belonging to the Phylum Arthropoda other than entries relating to the names of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea made of the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number 1019.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)13 :** On 11th June 1956 a Voting Paper (V.P.(O.M.)(56)13 was issued in which each Member of the Commission was asked (1) to state whether he agreed that "in accordance with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1936, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 17 of the paper numbered Z.N.(S.) 1019, regarding the names of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended" and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 11th July 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)13 :**

At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(45)13 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Vokes ; Lemche ; Hering ; Dymond ; Prantl ; Mayr ; Stoll ; Holthuis ; Bradley (J.C.) ; Riley ; Jaczewski ; Hankó ; Key ; Esaki ; do Amaral ; Bonnet ; Mertens ; Kühnelt ; Hemming ; Tortonese ; Sylvester-Bradley ; Cabrera ; Boschma ;

- (b) *Negative Votes :*

None ;

- (c) *Voting Papers not returned, one (1) :*

Miller.

**6. Declaration of Result of Vote :** On 12th July 1956 Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)13, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present “ Direction ” :** On 21st March 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)13.

**8. Original References :** The original references for the generic and specific names placed on the *Official Indexes* for the names of taxa belonging to those categories by the Ruling given in the present *Direction* are as set out in Annexe 2 and Annexe 3 respectively of the paper reproduced in the first paragraph of the present *Direction*. The references for the selection of type species for the genera specified in Section (1) of the Ruling given in the present *Direction* are as set out in Annexe 1 of the paper referred to above.

9. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Sixty-Six* (66) of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-First day of March, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.7. Pp. 111—128

## DIRECTION 67

Addition to the *Official List of Specific Names in Zoology* (a) of the specific names of twenty species belonging to the Classes Trilobita, Crustacea (other than species of the Order Decapoda), Diplopoda and Arachnida, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* up to the end of 1936, and (b) of the specific name of one species belonging to the Class Arachnida which is currently treated as a senior synonym of the name of such a species

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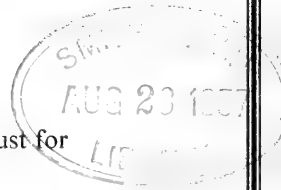
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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 67

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*arranged in order of precedence by reference to date of election or of most recent re-election as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (1st January 1947)

Senor Dr. Angel CARRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 67

ADDITION TO THE "OFFICIAL LIST OF SPECIFIC NAMES IN ZOOLOGY" (a) OF THE SPECIFIC NAMES OF TWENTY SPECIES BELONGING TO THE CLASSES TRILOBITA, CRUSTACEA (OTHER THAN SPECIES OF THE ORDER DECAPODA), DIPLOPODA AND ARACHNIDA, EACH OF WHICH IS THE TYPE SPECIES OF A GENUS, THE NAME OF WHICH WAS PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" UP TO THE END OF 1936, AND (b) OF THE SPECIFIC NAME OF ONE SPECIES BELONGING TO THE CLASS ARACHNIDA WHICH IS CURRENTLY TREATED AS A SENIOR SYNONYM OF THE NAME OF SUCH A SPECIES

**RULING** :—(1) The under-mentioned specific name of a species belonging to the Class Trilobita, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1925 by the Ruling given in the *Opinion* cited below, is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1304 :—

*diffractum*, Zenker, 1833, as published in the combination *Otarion diffractum* (specific name of type species of *Otarion* Zenker, 1833) (*Opinion* 88)

(2) The under-mentioned specific names of species belonging to the Class Crustacea, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in the

*Opinions* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *anatifera* Linnaeus, 1758, as published in the combination *Lepas anatifera* (specific name of type species of *Lepas* Linnaeus, 1758) (Order Cirripedia) (*Opinion* 77) (Name No. 1305) ;
- (b) *castor* Jurine, 1820, as published in the combination *Monoculus castor* (specific name of type species of *Diaptomus* Westwood, 1836) (Order Copepoda) (*Opinion* 104) (Name No. 1306) ;
- (c) *pulex* Linnaeus, 1758, as published in the combination *Cancer pulex* (specific name of type species of *Gammarus* Fabricius, 1775) (Order Amphipoda) (*Opinion* 104) (Name No. 1307) ;
- (d) *scaber* Latreille, [1803—1804], as published in the combination *Porcellio scaber* (specific name of type species of *Porcellio* Latreille, [1803—1804]) (Order Isopoda) (*Opinion* 104) (Name No. 1308).

(3) The under-mentioned specific name of a species belonging to the Class Diplopoda, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1928 by the Ruling given in the *Opinion* cited below, is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1309 :—

*complanatus* Linnaeus, 1761, as published in the combination *Julus complanatus* (specific name of type species of *Polydesmus* Latreille, [1802—1803]) (*Opinion* 104).

(4) The under-mentioned specific names of species belonging to the Class Arachnida, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by Rulings given in the

*Opinions* cited below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

(i) **Specific names of type species of genera, the names of which were placed on the “ Official List of Generic Names in Zoology ” by the Ruling given in “ Opinion ” 73**

(a) *cajennensis* Fabricius, 1787, as published in the combination *Acarus cajennensis* (specific name of type species of *Amblyomma* Koch, 1844) (Name No. 1310) ;

(b) *reticulatus* Fabricius, 1794, as published in the combination *Acarus reticulatus* (specific name of type species of *Dermacentor* Koch, 1844) (Name No. 1311) ;

(c) *concinna* Koch, 1844, as published in the combination *Haemaphysalis concinna* (specific name of type species of *Haemaphysalis* Koch, 1844) (Name No. 1312) ;

(d) *bicornis* Nuttall & Warburton, 1908, as published in the combination *Rhipicentor bicornis* (specific name of type species of *Rhipicentor* Nuttall & Warburton, 1908) (Name No. 1313) ;

(e) *sanguineus* Latreille, 1806, as published in the combination *Ixodes sanguineus* (specific name of type species of *Rhipicephalus* Koch, 1844) (Name No. 1314) ;

(ii) **Specific names of type species of genera, the names of which were placed on the “ Official List of Generic Names in Zoology ” by the Ruling given in “ Opinion ” 104**

(f) *eruditus* Schrank, 1781, as published in the combination *Acarus eruditus* (specific name of type species of *Cheyletus* Latreille, 1796) (Name No. 1315) ;

- (g) *folliculorum* Simon, 1842, as published in the combination *Acarus folliculorum* (specific name of type species of *Demodex* Owen, 1843) (Name No. 1316) ;
- (h) *equi* Raspail, 1834, as published in the combination *Sarcoptes equi* (specific name of type species of *Psoroptes* Gervais, 1841) (Name No. 1317) ;
- (i) *holosericeus* Linnaeus, 1758, as published in the combination *Acarus holosericeus* (specific name of type species of *Trombidium* Fabricius, 1775) (Name No. 1318) ;
- (j) *avicularia* Linnaeus, 1758, as published in the combination *Aranea avicularia* (specific name of type species of *Avicularia* Lamarck, 1818) (Name No. 1319) ;
- (k) *punctoria* Villers, 1789, as published in the combination *Aranea punctoria* (specific name of type species of *Dysdera* Latreille, 1804) (Name No. 1320) ;
- (l) *tredecimguttata* Rossi, 1790, as published in the combination *Aranea tredecimguttata* (specific name of type species of *Latrodectus* Walckenaer, 1805) (Name No. 1321) ;
- (m) *hastatus* Clerck, [1758], as published in the combination *Aranea hastatus* (specific name of type species of *Dendryphantes* Koch, 1837) (Name No. 1322) ;
- (iii) Specific name of the type species of a genus, the name of which was placed on the " Official List of Generic Names in Zoology " by the Ruling given in " Opinion " 128**
- (n) *myoti* Kolenati, 1856, as published in the combination *Pteropus myoti* (specific name of type species of *Spinturnix* van Heyden, 1826) (Name No. 1323).

(5) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1324 :—

*echinopus* Fumouze & Robin, 1868, as published in the combination *Tyroglyphus echinopus* (Class Arachnida).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* has been prepared under a General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that the specific names of the species which are the type species of genera, the names of which had been placed on the *Official List of Generic Names in Zoology* prior to the opening of that Congress should, if the oldest available names for the species concerned, be placed on the *Official List of Specific Names in Zoology* and that in other cases there should be placed on that *List* whatever is currently considered to be the oldest available name for the species concerned. The present, which is the sixth in this series of *Directions*, is concerned with completing the action called for under the foregoing Directive in relation to the specific names of species which are the type species of genera belonging to the Phylum Arthropoda, the names of which were placed on the *Official List of Generic Names in Zoology* up to the end of 1936. The required action has already been taken in regard to the specific names of the type species of genera belonging to the Order Decapoda of the Class Crustacea and to the Class Insecta respectively, the former by the Ruling given in *Direction* 36, the latter by the Ruling given in *Direction* 64. The names dealt with in the present *Direction* are the names of species belonging to the Classes Trilobita, Crustacea (other than names of genera belonging to the Order Decapoda), Diplopoda and Arachnida. The total number of generic names belonging to these genera placed on the *Official List* in the period up to the end of 1936 was thirty-three, but by the time that the

question of compliance with the Directive referred to above came to be considered, the specific names of the type species of two of the genera had already been dealt with and proposals were at that time before the Commission in connection with a third name. The investigations carried out by the Office of the Commission showed that of the remaining thirty names nine required further investigation. The proposals submitted in the present case, which were embodied in the following paper placed before the Commission by the Secretary on 11th June 1956, were concerned therefore with twenty-one specific names :—

**Proposed addition to the “ Official List of Specific Names in Zoology ”**

- (a) of the specific names of twenty species belonging to genera of the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea, each of which is the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936 and (b) of the specific name of one species of the Class Arachnida, Order Acarina, which is currently treated as a senior subjective synonym of the name of such a species

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains the sixth instalment of proposals for giving effect to the General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that in every case where the specific name of the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, is the oldest available name for the species concerned, that name shall be placed on the *Official List of Specific Names in Zoology* and that in other cases the specific name currently regarded as the oldest available subjective synonym of that name shall be similarly placed on that *List*. The immediately preceding instalment was concerned with the names of the type species of genera belonging to the Class Insecta (Z.N.(S.) 1016) and was submitted to the International Commission with Voting Paper V.P.(O.M.)(56)12.<sup>1</sup>

<sup>1</sup> The decision since taken by the International Commission on the Voting Paper here referred to has been embodied in *Direction* 64. That *Direction* has been published as Part E.4 of the present Section of Volume 1 (: 61—74),



2. The proposals now submitted relate to the names of the type species of genera belonging to the Phylum Arthropoda, other than genera belonging (a) to the Class Insecta (dealt with in the Voting Paper referred to above) and (b) to the Order Decapoda of the Class Crustacea (on which a decision was taken by the Commission on Voting Paper V.P.(O.M.)(55)27, which has since been embodied in *Direction* 36 (now in the press<sup>2</sup>), the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936. The total number of generic names so involved is thirty-three. These names were placed on the *Official List* in the following *Opinions*: *Opinion* 73 (eight names); *Opinion* 77 (one name); *Opinion* 88 (one name); *Opinion* 104 (twenty-one names); *Opinion* 113 (one name); *Opinion* 128 (one name).

3. In two cases the name of the type species of the genus concerned has already been placed on the *Official List of Specific Names in Zoology*. The names concerned are: (i) *polyphemus* Linnaeus, 1758, as published in the combination *Monoculus polyphemus* (specific name of type species of *Limulus* Müller (O.F.), 1785) (Class Merostomata), placed on the *Official List* as Name No. 119 by the Ruling given in *Opinion* 320; (ii) *florentina*, Rossi, 1790, as published in the combination *Aranea florentina* (specific name of type species of *Segestria* Latreille, [1804]), Class Arachnida), placed on the *Official List* as Name No. 675 by the Ruling given in *Direction* 29. In the case of a third generic name belonging to the group to be considered on the present occasion, namely *Scorpio* Linnaeus, 1758, which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104, difficulties were found to exist which made it necessary to submit separate proposals to the Commission (Hemming, 1955, *Bull. zool. Nomencl.* 11: 173—175). The proposals so submitted included a recommendation for the use of the Plenary Powers to designate *Scorpio maurus* Linnaeus, 1758, to be the type species of the genus *Scorpio* Linnaeus; it was part of the proposal that the specific name *maurus* Linnaeus should thereupon be placed on the *Official List of Specific Names in Zoology*. The above proposals are now before the Commission in connection with Voting Paper V.P.(56)10.<sup>3</sup> Accordingly, no further action is called for in connection with this name.

4. Thus, when allowance is made for the action taken and/or in progress in connection with the three generic names discussed in paragraph 3 above, the number of names still requiring attention is seen to be reduced to thirty. The investigations carried out by the

<sup>2</sup> *Direction* 36 was published on 1st September 1956 as Part D.1 of Section D of Volume 1 (: 1—46).

<sup>3</sup> The decision since taken by the International Commission in regard to the case here referred to has been embodied in *Direction* 60, which has been published as Part E.1 of the present Section of Volume 1 (: 1—12).

Office of the Commission show that in the case of nine of these names a further postponement is necessary. The number of names as regards which it is now possible to submit recommendations is therefore reduced to twenty-one.

5. The nine names now postponed for further examination are given below, together with a brief explanation of the question at issue. Each of these cases has now been separately registered, the Number now assigned to each being noted in the list now submitted.

**(a) Class Crustacea, Order Isopoda**

(i) *Armadillidium* Brandt & Ratzeburg, [1831] (Z.N.(S.) 1122))

It has not so far been possible to trace in the literature a selection as the type species of this genus, of the species cited when this generic name was placed on the *Official List* by the Ruling given in *Opinion* 104.

(ii) *Oniscus* Linnaeus, 1758 (Z.N.(S.) 1127)

The position as regards this generic name is similar to that found to exist in the case of the name *Armadillidium* (see (i) above). Like the latter name, the name *Oniscus* Linnaeus was placed on the *Official List* by the Ruling given in *Opinion* 104.

**(b) Class Arachnida, Order Acarina**

(iii) *Argas* Latreille, 1795 (Z.N.(S.) 1128)

It appears that the type species of this genus is currently known by a name which is a junior subjective synonym of another name. The Commission's Plenary Powers would be needed to validate current practice. This generic name was placed on the *Official List* by the Ruling given in *Opinion* 73.

(iv) *Hyalomma* Koch, 1844 (Z.N.(S.) 1129)

This nominal genus, the name of which was placed on the *Official List* by the Ruling given in *Opinion* 73, appears to be based upon a misidentified type species. Accordingly, action by the Commission under the procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948, will be needed to validate existing practice in this case.

(v) *Ixodes* Latreille, 1795 (Z.N.(S.) 1130)

In this case there appear to be unresolved doubts as to the interpretation of the nominal species which is the type species of this genus.

It seems probable that the use of the Plenary Powers will be needed in order to provide this genus with a type species in harmony with current usage. This generic name was placed on the *Official List* by the Ruling given in *Opinion* 73.

(vi) *Chorioptes* Gervais & van Beneden, 1859 (Z.N.(S.) 1131)

This generic name was placed on the *Official List* by the Ruling given in *Opinion* 104. There are doubts as to where the specific name of the type species of this genus was first published.

(vii) *Dermanyssus* Dugés, 1834 (Z.N.(S.) 1132)

This is another name placed on the *Official List* by the Ruling given in *Opinion* 104. The difficulty in this case arises from the fact that there are doubts as to where of two places this generic name was first published. If (as seems likely) it was first published on the second of the occasions claimed, there is at present no information as to where its type species was first validly selected.

(viii) *Glycyphagus* Hering, 1838 (Z.N.(S.) 1133)

The difficulty in this case is similar to that described under (v) above in connection with the name *Ixodes* Latreille. This name was placed on the *Official List* by the Ruling given in *Opinion* 104.

(ix) *Sarcoptes* Latreille, [1802—1803] (Z.N.(S.) 1134)

This generic name was placed on the *Official List* by the Ruling given in *Opinion* 113. The difficulty in this case resides in the fact that it is by no means clear what is the oldest available name for the type species of this genus.

6. On the present, as on previous similar occasions the search of the literature undertaken by the Office of the Commission for the purpose of checking and, where necessary, completing the entries made on the *Official List* in the period under review has disclosed a number of individual problems which require to be brought to the attention of the International Commission. These problems have been discussed in paper numbered Z.N.(S.) 1019 which is being submitted to the Commission with Voting Paper V.P.(O.M.)(56)<sup>4</sup> simultaneously with the present paper.

---

<sup>4</sup> The decision taken by the International Commission on the Voting Paper here referred to has been embodied in *Direction* 66. It has been published in the immediately preceding Part of the present Section of Volume 1 (: 85—110).

7. The elucidation of the problems involved in the present group of names has been rendered possible by the co-operation and assistance afforded by a number of specialists in the groups concerned. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they held at the time when consultations took place and (b) of the Classes on the names of genera of which assistance has been afforded, are the following :—

Pierre Bonnet (*Université de Toulouse, Faculté des Sciences, Laboratoire de Zoologie, Toulouse*) (Class Arachnida)

H. Boschma (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (Class Diplopoda)

Walter E. Collinge (*York, England*) (Class Arachnida)

G. O. Evans (*British Museum (Natural History), London*) (Class Arachnida)

J. P. Harding (*British Museum (Natural History), London*) (Class Crustacea)

Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts.*) (Class Trilobita ; Class Crustacea)

Herbert W. Levi (*University of Wisconsin, Department of Zoology, Madison, Wisconsin, U.S.A.*) (Class Arachnida)

F. A. Turk (*Camborne, Cornwall, England*) (Class Arachnida)

R. J. Whittick (*British Museum (Natural History), London*) (Class Arachnida).

8. The postponement for further consideration of the nine cases specified in paragraph 5 above reduces to twenty-one the number of cases on which it is possible to submit recommendations at the present time. The investigations carried out show that in twenty of the cases concerned the specific name of the type species of the genus in question is an available name and is currently accepted as the oldest such name for the taxon concerned. The twenty specific names in question are enumerated in Annexe 1 to the present paper. In the case of the one remaining genus the specific name of the type species is treated by specialists in the group concerned as being a junior subjective synonym of an older available name. Particulars of this case are given in Annexe 2.

9. It is recommended that in accordance with the General Directive referred to in the first paragraph of the present paper the International Commission on Zoological Nomenclature should place on the *Official List of Specific Names in Zoology* :—

- (1) the twenty specific names enumerated in Col. (1) of Annexe 1, each of which (a) is the specific name of the type species of a genus belonging to the Phylum Arthropoda, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and (b) is the oldest available name for the species concerned ;
- (2) the single specific name specified in Col. (1) of Annexe 2, a name which is currently treated by specialists (a) as a senior subjective synonym of the name of the type species of a genus belonging to the Phylum Arthropoda, the name of which was placed on the foregoing *Official List* in the period referred to above and (b) as the oldest available name for the species concerned.

## ANNEXE 1

**Specific names of twenty nominal species belonging to the Phylum Arthropoda, each of which (a) is the specific name of the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936 and (b) is the oldest available name for the species concerned**

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>“ Official List of<br/>Specific Names in<br/>Zoology ”</i> | <i>Combination in<br/>which name specified<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                  | (2)                                                                                       | (3)                                                                                       |

**Class Trilobita****“ Opinion ” 88**

*diffractum* Zenker,  
1833

*Otarion diffractum*

*Otarion* Zenker,  
1833

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name specified<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                                       | (3)                                                                                       |
| <b>Class Crustacea</b>                                                                                             |                                                                                           |                                                                                           |
| <b>"Opinion" 77</b>                                                                                                |                                                                                           |                                                                                           |
| <i>anatifera</i> Linnaeus,<br>1758                                                                                 | <i>Lepas anatifera</i>                                                                    | <i>Lepas</i> Linnaeus,<br>1758                                                            |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>castor</i> Jurine, 1820                                                                                         | <i>Monoculus castor</i>                                                                   | <i>Diaptomus</i><br>Westwood, 1836                                                        |
| <i>pulex</i> Linnaeus<br>1758                                                                                      | <i>Cancer pulex</i>                                                                       | <i>Gammarus</i><br>Fabricius, 1775                                                        |
| <i>scaber</i> Latreille,<br>[1803—1804]                                                                            | <i>Porcellio scaber</i>                                                                   | <i>Porcellio</i> Latreille,<br>[1803—1804]                                                |
| <b>Class Diplopoda</b>                                                                                             |                                                                                           |                                                                                           |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>complanatus</i> Linnaeus,<br>1761                                                                               | <i>Julus complanatus</i>                                                                  | <i>Polydesmus</i> Latreille,<br>[1802—1803]                                               |
| <b>Class Arachnida</b>                                                                                             |                                                                                           |                                                                                           |
| <b>"Opinion" 73</b>                                                                                                |                                                                                           |                                                                                           |
| <i>cajennensis</i><br>Fabricius, 1787                                                                              | <i>Acarus cajennensis</i>                                                                 | <i>Amblyomma</i> Koch,<br>1844                                                            |
| <i>reticulatus</i><br>Fabricius, 1794                                                                              | <i>Acarus reticulatus</i>                                                                 | <i>Dermacentor</i> Koch,<br>1844                                                          |
| <i>concinna</i> Koch, 1844                                                                                         | <i>Haemaphysalis<br/>concinna</i>                                                         | <i>Haemaphysalis</i> Koch,<br>1844                                                        |
| <i>bicornis</i> Nuttall &<br>Warburton, 1908                                                                       | <i>Rhipicentor bicornis</i>                                                               | <i>Rhipicentor</i> Nuttall &<br>Warburton, 1908                                           |
| <i>sanguineus</i> Latreille,<br>1806                                                                               | <i>Ixodes sanguineus</i>                                                                  | <i>Rhipicephalus</i> Koch,<br>1844                                                        |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>eruditus</i> Schrank, 1781                                                                                      | <i>Acarus eruditus</i>                                                                    | <i>Cheyletus</i> Latreille,<br>1796                                                       |
| <i>folliculorum</i> Simon,<br>1842                                                                                 | <i>Acarus<br/>folliculorum</i>                                                            | <i>Demodex</i> Owen,<br>1843                                                              |
| <i>equi</i> Raspail, 1834                                                                                          | <i>Sarcoptes equi</i>                                                                     | <i>Psoroptes</i> Gervais,<br>1841                                                         |

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Combination in which name specified in Col. 1 was originally published</i> | <i>Name of genus of which species specified in Col. 1 is the type species</i> |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                           | (3)                                                                           |
| <i>holosericeus</i> Linnaeus, 1758                                                             | <i>Acarus holosericeus</i>                                                    | <i>Trombidium</i> Fabricius, 1775                                             |
| <i>avicularia</i> Linnaeus, 1758                                                               | <i>Aranea avicularia</i>                                                      | <i>Avicularia</i> Lamarck, 1818                                               |
| <i>punctoria</i> Villers, 1789                                                                 | <i>Aranea punctoria</i>                                                       | <i>Dysdera</i> Latreille, 1804                                                |
| <i>tredecimguttata</i> Rossi, 1790                                                             | <i>Aranea tredecimguttata</i>                                                 | <i>Latrodectus</i> Walckenaer, 1805                                           |
| <i>hastatus</i> Clerck, [1758]                                                                 | <i>Aranea hastatus</i>                                                        | <i>Dendryphantès</i> Koch, 1837                                               |
| <b>"Opinion" 128</b>                                                                           |                                                                               |                                                                               |
| <i>myoti</i> Kolenati, 1856                                                                    | <i>Pteropus myoti</i>                                                         | <i>Spinturnix</i> van Heyden 1826                                             |

## ANNEXE 2

The specific name of a nominal species which is subjectively identified with a nominal species of later date which is the type species of a genus belonging to the Class Arachnida (Order Acarina), the name of which was placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Remarks (not for inclusion in the entry to be made in the "Official List")</i> |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                               |

**"Opinion" 104**

|                                                                                                      |                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>echinopus</i> Fumouze & Robin, 1868, as published in the combination <i>Tyroglyphus echinopus</i> | a senior subjective synonym of <i>robini</i> Claparède, (1869), as published in the combination <i>Rhizoglyphus robini</i> , the specific name of the type species of <i>Rhizoglyphus</i> Claparède, (1869) |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's application, the question of placing on the *Official List of Specific Names in Zoology* the specific names of species of the Classes Trilobita, Crustacea (other than species of the Order Decapoda), Diplopoda and Arachnida specified therein was allotted the Registered Number Z.N.(S.) 1018.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)14 :** On 11th June 1956 a Voting Paper (V.P.(O.M.)(56)14) was issued in which each Member of the Commission was asked (1) to state whether he agreed "that, in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress on Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1936, the names of species belonging to genera of the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea referred to in Sections (1) and (2) of paragraph 9 of the paper bearing the Registered Number Z.N.(S.) 1018 by the Secretary submitted simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] should be placed on the *Official List of Specific Names in Zoology* as there recommended and that the other action recommended in the said paragraph be similarly approved" and (2) if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 11th July 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)14 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)14 was as follows :—



(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Vokes ; Lemche ; Hering ; Dymond ; Mayr ; Prantl ;  
 Stoll ; Holthuis ; Bradley (J.C.) ; Riley ; Jaczewski ;  
 Hankó ; Key ; Esaki ; do Amaral ; Bonnet ; Mertens ;  
 Kühnelt ; Hemming ; Tortonese ; Sylvester-Bradley ;  
 Cabrera ; Boschma ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned, two (2) :*

Bodenheimer ; Miller.

**6. Declaration of Result of Vote :** On 12th July 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)14, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 22nd March 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)14.

**8. Original References :** The original references for the names placed on the *Official List of Specific Names in Zoology* by the Ruling given in the present *Direction* have already been noted in connection with the preparations for the publication of the *Official Lists* in book-form and call for no comment.

9. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Sixty-Seven (67)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Second day of March, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.8. Pp. 129—136

## DIRECTION 68

Addition to the *Official List of Generic Names in Zoology*  
of the generic name *Pelecanus* Linnaeus, 1758 (Class Aves)  
(*Direction* supplementary to *Opinion* 16)

### LONDON :

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 68

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History) Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (1st January 1947)

Senor Dr. Angel CARRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 68

### ADDITION TO THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" OF THE GENERIC NAME "PELECANUS" LINNAEUS, 1758 (CLASS AVES) ("DIRECTION" SUPPLEMENTARY TO "OPINION" 16)

**RULING** :—(1) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name Number 1197 :—

*Pelecanus* Linnaeus, 1758 (gender : masculine) (type species, by selection by Gray (G.R.), (1840) : *Pelecanus onocrotalus* Linnaeus, 1758)

(2) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1325 :—

*onocrotalus* Linnaeus, 1758, as published in the combination *Pelecanus onocrotalus* (specific name of type species of *Pelecanus* Linnaeus, 1758).

#### I. THE SUBJECT MATTER OF THE PRESENT "DIRECTION"

The present *Direction* is concerned with the determination of the manner by which under Article 30 of the *Règles* a type species was determined for the nominal genus *Pelecanus* Linnaeus, 1758 (Class Aves), a question which was discussed in 1910 in *Opinion* 16 but on which no Ruling was then given. The proposals on which were based the decisions taken in the present case were submitted to the International Commission on Zoological Nomenclature by the Secretary in the following paper on 31st July 1956 :—

**Proposed addition to the "Official List of Generic Names in Zoology" of the generic name "Pelecanus" Linnaeus, 1758 (Class Aves)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The object of the present application is to ask the International Commission on Zoological Nomenclature to place on the *Official List of Generic Names in Zoology* the generic name *Pelecanus* Linnaeus,

1758 (Class Aves), one of the generic names discussed in *Opinion 16* (1910, *Smithson. Publ.* 1938 : 31—39), but left unsettled on that occasion. The circumstances of this case are set out in the following paragraphs.

2. At its meeting held in Paris in 1948 the Thirteenth International Congress of Zoology on the proposal of the Commission inserted in the *Règles* the substance of the Ruling given in *Opinion 16*, namely that, where a nominal genus was established without a designated or indicated type species and the author of the generic name cited in the synonymy of one but not more than one of the included nominal species a pre-1758 univocal species-name consisting of the same word as that selected for the generic name, the nominal species in question was to be treated as having been indicated as the type species of the genus concerned by absolute tautonymy (1950, *Bull. zool. Nomencl.* 4 : 153—154). At the same Session the International Commission examined *Opinion 16*, in which the Commission had enumerated a large number of Linnean names as names of genera the type species of which had possibly been determined under the foregoing Rule but took decisions on two only of the names concerned. As part of its general policy of completing the Rulings given in *Opinions* rendered in the period up to the end of 1936 in anticipations of the publication of the *Official List of Generic Names in Zoology* in book-form, the Commission at its Paris Session decided that Rulings should be given as soon as possible in regard to the generic names discussed but left unsettled in *Opinion 16* and invited me as Secretary to investigate this matter and to submit proposals to the above end (1950, *Bull. zool. Nomencl.* 4 : 581—583).

3. In 1952 I submitted a Report to the Commission in which I recommended the addition to the *Official List* of the names of seventeen genera of birds which had been discussed but left unsettled in *Opinion 16*, the type species of each of which it appeared to me to have been determined by "Linnean tautonymy" under the Rule explained in paragraph 2 above (Hemming, 1952, *Bull. zool. Nomencl.* 9 : 70—75). When the stage was reached for the Commission to vote on the foregoing proposals, I re-examined each of the names concerned and in doing so found that, contrary to what I had previously thought, the Rule of Linnean Tautonymy did not apply to the name *Pelecanus* Linnaeus, 1758. I accordingly withdrew the proposal which I had submitted in regard to that name. The proposals submitted in regard to the remaining names dealt with in the Report referred to above were approved by the Commission by its Vote on Voting Paper V.P.(54)73 and the decision so taken was later embodied in *Direction 17* (1955, *Ops. Decls. int. Comm. zool. Nomencl.* 1(C) : 89—112). The Minute executed by myself as Secretary to the Commission withdrawing the

name *Pelecanus* Linnaeus, 1758, from the scope of the vote taken on the foregoing Voting Paper was reproduced in paragraph 14 of the above *Direction*.

4. In accordance with the direction given in the Minute referred to in the preceding paragraph the name *Pelecanus* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 132) has been re-examined and the following particulars are now submitted to enable the Commission to take the measures required to enable it to complete the action needed on this part of *Opinion* 16. The above genus was established with five included nominal species. No type species was designated for this genus and no pre-1758 univocal species-name consisting of the word "*Pelecanus*" was unequivocally cited by Linnaeus in the synonymy of any of the included species. Accordingly, Rule (g) in Article 30 (type species by subsequent selection) governs the determination of the type species of this genus. The first author to select any of the included species to be the type species of *Pelecanus* Linnaeus, 1758, was Gray (G.R.) who in 1840 (*List Gen. Birds* : 80) so selected *Pelecanus onocrotalus* Linnaeus, 1758 (: 132). This therefore is the valid type species of this genus. It is so accepted in all works dealing with this genus.

5. The nominal genus *Pelecanus* Linnaeus is the type genus of the currently accepted family-group taxon PELECANIDAE. It is considered, however, that it would be more convenient to defer the submission of a proposal for the addition of this name to the *Official List of Family-Group Names in Zoology* until it is possible to submit comprehensive proposals regarding the family-group-name problems involved in connection with the other generic names of birds discussed but left unsettled in *Opinion* 16. This subject it being currently examined in the Commission's File Z.N.(G.) 76.

6. In these circumstances, I recommend that, in order to effect the action required for the completion of this part of *Opinion* 16, the International Commission on Zoological Nomenclature should :—

- (1) place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Pelecanus* Linnaeus, 1758 (gender masculine) (type species, by selection by Gray (G.R.) (1840) : *Pelecanus onocrotalus* Linnaeus, 1758) ;
- (2) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *onocrotalus* Linnaeus, 1758, as published in the combination *Pelecanus onocrotalus* (specific name of type species of *Pelecanus* Linnaeus, 1758).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's application the question of the addition to the *Official List of Generic Names in Zoology* of the generic name *Pelecanus* Linnaeus, 1758, was allotted the Registered Number Z.N.(S.) 949.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)18 :** On 31st July 1956 a Voting Paper (V.P.(O.M.)(56)18) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal for the addition to the *Official List of Generic Names in Zoology* of the generic name *Pelecanus* Linnaeus, 1758, as recommended in paragraph 6 of the note numbered Z.N.(S.) 949, submitted by the Secretary simultaneously with the present Voting Paper" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 31st August 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)18 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)18 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-five (25) Commissioners (arranged in the order in which Votes were received) :*

Riley ; Bodenheimer ; Prantl ; Boschma ; Holthuis ; Vokes ; Hering ; Mertens ; Bradley (J.C.) ; Stoll ; Sylvester-Bradley ; Esaki ; do Amaral ; Tortonese ; Hankó ; Mayr ; Cabrera ; Lemche ; Hemming ; Key ; Dymond ; Kühnelt ; Miller ; Bonnet ; Jaczewski ;



(b) *Negative Votes* :

None ;

(c) *Voting Papers not returned* :

None.

**6. Declaration of Result of Vote :** On 1st September 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(56)18, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 23rd March 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)18.

**8. Original References :** The following are the original references for the names placed on *Official Lists* by the Ruling given in the present *Direction* :—

*onocrotalus, Pelecanus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 132  
*Pelecanus* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 132

**9.** The reference for the selection of a type species for the genus *Pelecanus* Linnaeus, 1758, specified in the Ruling given in the present *Direction* is as follows :—

Gray (G.R.), 1840, *List Gen. Birds* : 80

**10. Family-Group-Name Aspect :** The family-group-name problem involved in the present case has been reserved for consideration

with similar problems relating to the names of other Genera of birds discussed but left unsettled in *Opinion 16*.

**11.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**12.** The present *Direction* shall be known as *Direction Sixty-Eight (68)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Third day of March, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E9. Pp.137—150

## DIRECTION 69

Validation under the Plenary Powers of the generic name *Osmerus* as of subgeneric status as from Linnaeus, 1758 (Class Pisces) (validation of an error in the Ruling given in *Opinion 77*)

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 69

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts, England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senior Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senior Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N. Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N. Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria," Genova, Italy*) (16th December 1954)

## DIRECTION 69

### VALIDATION UNDER THE PLENARY POWERS OF THE GENERIC NAME "OSMERUS" AS OF SUBGENERIC STATUS AS FROM LINNAEUS, 1758 (CLASS PISCES) (VALIDATION OF AN ERROR IN THE RULING GIVEN IN "OPINION" 77)

**RULING** :—(1) Under the Plenary Powers and in response to the invitation issued to specialists by the Ruling given in *Opinion* 124, (a) the name *Osmerus* (Class Pisces) is hereby validated as having been published as a subgeneric name by Linnaeus in 1758 in Volume 1 (: 310) of the Tenth Edition of the *Systema Naturae*, and (b) the nominal species *Salmo eperlanus* Linnaeus, 1758, is hereby designated as the type species of the foregoing genus.

(2) The entry on the *Official List of Generic Names in Zoology* of the name *Osmerus* Linnaeus, 1758, made by the Ruling given in *Opinion* 77 is hereby confirmed, the entry in question being amended and extended to read as follows :—

*Osmerus* Linnaeus, 1758, as validated under the Plenary Powers in (1)(a) above (gender : masculine) (type species, by designation under the Plenary Powers in (1)(b) above : *Salmo eperlanus* Linnaeus, 1758).

(3) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1326 :—

*eperlanus* Linnaeus, 1758, as published in the combination *Salmo eperlanus* (specific name of type species of *Osmerus* Linnaeus, 1758).

(4) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name Number 182 :—

OSMERIDAE Regan (C.T.), 1913 (type genus : *Osmerus* Linnaeus, 1758).

## I. THE STATEMENT OF THE CASE

The present *Direction* is concerned with the validation of the entry relating to the generic name *Osmerus* Linnaeus, 1758 (Class Pisces) made on the *Official List of Generic Names in Zoology* by the Ruling given in 1922 in *Opinion 77*. The circumstances of this case were placed before the International Commission on Zoological Nomenclature by the Secretary on 19th August 1955 in the following paper :—

**Proposed validation under the Plenary Powers of "Osmerus" (Class Pisces) as of subgeneric status as from Linnaeus, 1758 (proposed validation of an erroneous entry on the "Official List of Generic names in Zoology" made by the Ruling given in "Opinion" 77)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present application is concerned with the correction of an erroneous entry on the *Official List of Generic Names in Zoology* in relation to the reputed generic name *Osmerus* Linnaeus, 1758 (Class Pisces) made by the Ruling given in *Opinion 77* (1922, *Smithson. misc. Coll.* 73(No. 1) : 71—73).

2. The error referred to above was discovered in the course of a preliminary survey of the entries so far made on the *Official List*, carried out by myself in the period 1943—1944, for the purpose of estimating the amount of work required before it would be possible to publish a volume containing particulars of all entries so far made on that *List*. The error in question is exactly similar to that which was detected in relation to the reputed generic name *Cercopithecus* Linnaeus, 1758 (Class Mammalia), placed on the *Official List* by the Ruling

given in *Opinion* 104. In each case the Commission accepted as a validly published generic name, a term which had been used by Linnaeus in 1758 in the nominative plural to distinguish a group of species assigned by him to some other genus. At the time when the foregoing *Opinions* were adopted, there existed no authoritative ruling as to the status of terms such as *Osmeri* and *Cercopitheci* as used by Linnaeus to denote groups of species below the genus-level, such terms being rejected by some workers but accepted by others. It was not until 1936 (*Smithson. misc. Coll.* 73(8) : 1—2) that an *Opinion* (*Opinion* 124) was published which put an end to this old controversy. By the Ruling so given which was based upon a decision taken by the Commission at its Session held at Padua in 1930 terms of the type discussed above were ruled to have no status of availability as from Linnaeus, 1758. The Commission recognised that in certain cases this ruling might lead to undesirable name-changing and added a rider to its ruling intimating its willingness to consider applications for the validation under the Plenary Powers of terms of this type.

3. When in *Opinion* 124 it settled the question of principle involved, the Commission overlooked the fact that in the two instances discussed above it had placed on the *Official List of Generic Names in Zoology* terms which under that Ruling possessed no status of availability. The case of the name *Cercopithecus* has been dealt with, having been validated under the Plenary Powers by the Ruling given in *Opinion* 238 (1954, *Ops. Decls. int. Comm. zool. Nomencl.* 4 : 351—360). It is recommended that corresponding action should now be taken as regards the reputed generic name *Osmerus* Linnaeus, 1758.

4. The term *Osmeri* was published by Linnaeus in 1758 (*Syst. Nat.* (ed. 10) 1 : 310) as a term to denote a group consisting of two species of the genus *Salmo*. The first of these species was *Salmo eperlanus* (: 310). This was the species which was cited as the type species of the genus "*Osmerus*" Linnaeus, 1758, when that "name" was placed on the *Official List* by *Opinion* 77. It appears to be still so regarded.

5. The "genus" *Osmerus* Linnaeus, 1758, is currently regarded as the type genus of a family OSMERIDAE. I have so far, however, been unable to ascertain where this name was first published. It is accordingly proposed that action in this matter should be deferred until it has been found possible to examine also the family-group-name problems involved in connection with the other generic names for fishes placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 77.

6. In order to remove the obstacle to the publication of the *Official List* represented by the erroneous entry made thereon by the Ruling given in this case in *Opinion* 77, the International Commission is now asked :—

- (1) to use its Plenary Powers to validate the reputed generic name *Osmerus* as from Linnaeus, 1758, and to designate *Salmo eperlanus* Linnaeus, 1758, to be the type species of the genus so named ;
- (2) to confirm in its position as Name No. 265 on the *Official List of Generic Names in Zoology* the generic name *Osmerus* Linnaeus, 1758, as validated under the Plenary Powers under (1) above and with the type species there designated ;
- (3) to place on the *Official List of Specific Names in Zoology* the specific name *eperlanus* Linnaeus, 1758, as published in the combination *Salmo eperlanus* (specific name of type species of *Osmerus* Linnaeus, 1758).

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of the validation of the entry relating to the generic name *Osmerus* Linnaeus, 1758, made by the Ruling given in *Opinion 77* was allotted the Registered Number Z.N.(S.) 564.

**3. Publication of the present application :** The present application was sent to the printer on 23rd August 1955 and was published on 30th December in the same year in Part 9 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 281—282).

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 30th December 1955 (a) in Part 9 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's paper was published) and (b) to the other prescribed serial



publications. In addition, such Notice was given also to four general zoological serial publications and to one specialist serial publication in Europe and America.

**5. Family-Group-Name Problem involved :** When the application dealt with in the present *Direction* was passing through the press, a further effort was made by the Secretary to clear up the family-group-name problem involved in the present case. Accordingly, Mr. Hemming, after consultation with Mr. Denys W. Tucker (*British Museum (Natural History), London*), prepared a supplementary application dealing with this aspect of the case. This application which was as follows, was published on 12th June 1956 (Hemming, 1956, *Bull. zool. Nomencl.* **12** : 14—15) :—

**Supplementary application relating to the generic name "Osmerus"  
Linnaeus, 1758 (Class Pisces)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

When I recently submitted to the International Commission proposals for the rectification of an error in *Opinion 77* relating to the generic name *Osmerus* Linnaeus, 1758 (Class Pisces) I found it necessary to report that I was not then in a position to submit a recommendation on the family-group-name aspect of that case. I added that I would do so in due course.

2. In the interval which has since elapsed I have had an opportunity of investigating this matter with the assistance of Mr. Denys W. Tucker, B.Sc. (*Department of Zoology, British Museum (Natural History), London*).

3. It appears that the first time that the word OSMERIDAE appeared in print was in 1913 in the volume of the *Zoological Record* for the year 1912 (**49** : Pisces 35)<sup>1</sup>. The editor of the Pisces section of the *Zoological Record* at that time was C. T. Regan and it must be assumed that it was he who was responsible for the introduction of this at that time unpublished family name as a heading in the Pisces section of this literature-recording serial. The only requirement, apart from due

<sup>1</sup> Additional information obtained after the publication of the present Report showed that, contrary to the statement here made, the name OSMERIDAE was published in the *Trans. Roy. Soc. Edinb.* before it was published in the *Zoological Record*. See paragraph 3 of the Supplementary Report reproduced in paragraph 9 of the present *Direction*.

publication, required to provide a family-group name with the status of availability is that it should be based upon the name of its type genus. While there cannot be any doubt that the name OSMERIDAE as used by Regan in the *Zoological Record* was based upon the generic name *Osmerus* Linnaeus, the fact that this was not so stated by Regan on this occasion—and in view of the circumstances in which this name was published could hardly have been stated—must be taken as invalidating this name as published in the manner discussed above<sup>2</sup>. That this is so must be regarded as satisfactory, for no more unsuitable place in which to publish a new name than the *Zoological Record* could be imagined.

4. The next occasion when the name OSMERIDAE appeared was again in 1913 and once again Regan was the author. This was in a paper entitled "The Antarctic Fishes of the Scottish National Antarctic Expedition" (*Trans. Roy. Soc. Edinb.* 49 : 290).

5. In order to complete the action needed to correct and amplify the Ruling given in *Opinion 77*, it is recommended that the International Commission on Zoological Nomenclature should :—

- (1) place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology* : OSMERIDAE Regan (C.T.), 1913 (reference as in paragraph 4 above) (type genus : *Osmerus* Linnaeus, 1758) ;
- (2) place the under-mentioned family-group name on the *Official Index of Rejected and Invalid Family-Group Names in Zoology* :— OSMERIDAE Regan (C.T.), 1913 (reference as in paragraph 3 above) (invalid because not accompanied by a statement as to the name of the type genus of the family-group taxon so named)<sup>2</sup>.

**6. No objection received :** No objection to the proposals submitted in the present case was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**7. Issue of Voting Paper V.P.(56)50 :** On 31st December 1956 a Voting Paper (V.P.(56)50) was issued in which the Members of the Commission were invited to vote either for, or against, "the

<sup>2</sup> The question of principle here discussed was later decided by the Commission in the opposite sense to that here advanced. The decision so taken has since been embodied in *Declaration 31* (1957, *Ops. Decls. int. Comm. zool. Nomencl.* 16 : i—x).

proposal relating to the generic name *Osmerus* Linnaeus, 1758 (a) as set out in Points (1) to (3) in paragraph 6 on page 282 of Volume 11 of the *Bulletin of Zoological Nomenclature* and (b) as supplemented by Points (1) and (2) in paragraph 5 on page 15 of Volume 12 of the above *Bulletin*" [i.e. in the paragraphs numbered as above in the papers reproduced in paragraphs 1 and 5 respectively in the present *Direction*].

**8. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 31st March 1957.

**9. Supplementary Report containing additional information regarding the family-group-name problem involved in the present case :** On 11th February 1957, Mr. Hemming submitted a supplementary Report on the family-group-name problem involved in the present case, in which he showed that the name OSMERIDAE was first published by Regan in 1913 in the *Trans. Roy. Soc. Edinburgh* and that the employment of this name by Regan in the volume of the *Zoological Record* for 1913 was no more than a later usage of this name as previously published in the serial cited above. Mr. Hemming accordingly withdrew the proposal previously submitted (in paragraph 5(2) of the paper reproduced in paragraph 5 of the present *Direction*) that the above name as published in the *Zoological Record* should be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology*. The Supplementary Report referred to above was as follows :—

**Additional Particulars regarding the first publication of a family-group name based on the generic name "Osmerus" Linnaeus, 1758 (Class Pisces)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present note is to place before the International Commission on Zoological Nomenclature certain additional information which I have obtained regarding the first publication of a family-group name based upon the generic name *Osmerus* Linnaeus, 1758 (Class Pisces).

2. At the time when I placed recommendations before the Commission for the addition to the *Official List of Family-Group Names in Zoology* of a family-group name based upon the foregoing generic name (*Bull. zool. Nomencl.* 12 : 14—15) I reported that a family-group name OSMERIDAE had first been published in the year 1913 and that in that year it had been published in two different serials, in each case by the late C. Tate Regan. The references concerned were :—(i) *Zool. Rec.* 49 : Pisces 35 ; (ii) *Trans. Roy. Soc. Edinb.* 49 : 290. At that time I believed that Volume 49 of the *Zoological Record* was published before Volume 49 of the *Transactions of the Royal Society of Edinburgh*. Further at that time I took the view that the name OSMERIDAE as introduced by Regan (as Recorder for the Pisces Section of the *Zoological Record*) was invalid because, when putting forward this name, he had not cited by name the genus which he took as the type genus of this new family-group taxon. I accordingly recommended that the name OSMERIDAE Regan, 1913 (as of the *Zool. Rec.*) should be rejected as not complying with the requirements relating to the publication of family-group names and should be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology*.<sup>3</sup> At the same time I recommended that the name OSMERIDAE Regan, 1913, as of the *Trans. Roy. Soc. Edinburgh*, which, when published, was accompanied by a clear citation of *Osmerus* Linnaeus, 1758, as type genus, should be placed on the *Official List of Family-Group Names in Zoology*.

3. Since the submission of the foregoing proposals, I have been able through the kindness of Mr. G. B. Stratton, the present Editor of the *Zoological Record*, to ascertain the exact date of publication of Volume 49 of that serial and thus definitely to establish the relative priority of the name OSMERIDAE as so published and of the same name as published in the same year in the *Trans. Roy. Soc. Edinb.* The information now obtained is as follows :—

- (1) The Annual Report of the Council of the Zoological Society of London for the year 1913 contains a statement that the Pisces Section (with certain other Sections) of Volume 49 of the *Zoological Record* was published in November 1913 and that the volume as a whole was completed on 24th December of that year when the last Section was published.
- (2) Volume 49 of the *Transactions of the Royal Society of Edinburgh* has a table on the back of the title page, giving the dates on which each of the papers included in the volume was published. Regan's paper containing the name OSMERIDAE was Paper No. 2 in the volume and was published on 23rd May 1913.

<sup>3</sup> See paragraph 5 of the Supplementary Application reproduced in paragraph 5 of the present *Direction*.

4. The information set out in the preceding paragraph established beyond possibility of question (a) that the name OSMERIDAE Regan appeared in the *Zoological Record* in November 1913 and that the name OSMERIDAE Regan appeared in the *Trans. Roy. Soc. Edinburgh* on 23rd May of the same year, i.e. some six months earlier. We see therefore that the assumption in my earlier paper<sup>4</sup> that the *Zoological Record* version of this name was the first to be published was incorrect. Accordingly, the name OSMERIDAE Regan, as published in the *Trans. Roy. Soc. Edinburgh*, possesses unquestionable priority over the *Zoological Record* version. We see also that the latter version was not a new name, being no more than a usage of a name already published earlier in the same year.

5. It will be recalled that in my original paper I recommended that the name OSMERIDAE should not be accepted as from the *Zoological Record*, even though it was then believed to have been first published in that serial. This was because I then believed that it was invalid as from having been so published, in view of the fact that on that occasion Regan did not cite the type genus (*Osmerus* Linnaeus) by name.<sup>4</sup> Since that paper was written, further information has been accumulated in regard to the manner in which family-group names have actually been published in various groups and in the light of this information the Commission has given a Ruling (by its vote on Voting Paper V.P.(O.M.)(56)16) that, although it is undesirable that a family-group name should be published without an express citation by name of the type genus of the nominal family-group taxon so established a family-group name established without such a citation is not on that account to be rejected. The decision taken on the foregoing Voting Paper has since been embodied in *Declaration* 31 (now in the press).<sup>5</sup> In these circumstances (and contrary to the view taken in my original paper) the name OSMERIDAE Regan, as published in Volume 49 of the *Zoological Record* would have been an available name if the *Zoological Record* had been the first place in which it had been published. We now know, however, that this name was published by Regan in the *Trans. Roy. Soc. Edinburgh* before it was published in the *Zoological Record*.

6. To sum up, the name OSMERIDAE Regan, 1913, ranks for priority from the *Trans. Roy. Soc. Edinburgh*, as recommended in the proposal previously submitted, but it does this not because OSMERIDAE Regan, 1913, as of the *Zoological Record*, was invalidly published (as I then supposed) but, as has now been ascertained, it appeared in the above serial before it appeared in the *Zoological Record*. The proposal submitted to, and approved by, the Commission in its vote on Voting Paper V.P.(56)30 that the name OSMERIDAE Regan, 1913,

<sup>4</sup> See paragraph 3 of the paper referred to in Footnote 3.

<sup>5</sup> For particulars regarding the publication of *Declaration* 31 see Footnote 2.

should be accepted as from the *Trans. Roy. Soc. Edinburgh* and should be placed on the *Official List* remains correct and necessary, all that is now required being (a) a correction of the erroneous arguments previously put forward in support of that proposal and (b) the withdrawal of the proposal that the name OSMERIDAE Regan, 1913, as of the *Zool. Rec.* should be placed on the *Official Index of Rejected and Invalid Family-Group Names in Zoology*. The latter action would be inappropriate now that it is known that, as so published, the name OSMERIDAE was not a new name but merely a later usage of a previously published name. In the circumstances I feel that the Commission will take the view that no further vote is required to effect the minor adjustments described above and that it will be sufficient if the present note is brought to the attention of all members of the Commission and included in the *Opinion* to be rendered in the present case. I therefore propose to proceed with the preparation of an *Opinion* giving effect to the decision taken by the Commission on this matter, subject (i) to the adjustment indicated at (b) above and (ii) to the inclusion in the *Opinion* of the present note.

**10. Particulars of the Voting on Voting Paper V.P.(56)50 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(56)50 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Mertens ; Lemche ; Hering ; Boschma ;  
Bradley (J.C.) ; Holthuis ; Kühnelt ; Bonnet ; Vokes ;  
Stoll ; do Amaral ; Mayr ; Key ; Dymond ; Jaczewski ;  
Riley ; Hemming ; Esaki ; Tortonese ; Cabrera ;  
Sylvester-Bradley ; Miller ;

(b) *Negative Votes :*

None ;

(c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

(d) *Voting Papers not returned, one (1) :*  
Prantl.

**11. Declaration of Result of Vote :** On 1st April 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(56)50, signed a Certificate that the Votes cast were as set out in paragraph 10 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**12. Preparation of the Ruling given in the present " Direction " :** On 2nd April 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(56)50.

**13. Original References :** The following is the original reference for the name placed on the *Official List of Specific Names in Zoology* by the Ruling given in the present *Direction* :—

*eperlanus*, *Salmo*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 310

**14.** The following is the original reference for the name placed on the *Official List of Family-Group Names in Zoology* by the Ruling given in the present *Direction* :—

OSMERIDAE Regan (C.T.), 1913, *Trans. Roy. Soc. Edinb.* **49** : 290

**15.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

16. The present *Direction* shall be known as *Direction Sixty-Nine (69)* of the International Commission on Zoological Nomenclature.

DONE in London, this Second day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

VOLUME 1. SECTION E. Part E.10. Pp. 151—160

## DIRECTION 71

Determination under the Plenary Powers of the gender to be attributed to the generic name *Lepisma* Linnaeus, 1758 (Class Insecta, Order Thysanura) (*Direction* supplementary to *Opinion* 104)

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 71

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor ENRICO TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 71

DETERMINATION UNDER THE PLENARY POWERS  
OF THE GENDER TO BE ATTRIBUTED TO THE  
GENERIC NAME "LEPISMA" LINNAEUS, 1758  
(CLASS INSECTA, ORDER THYSANURA)  
("DIRECTION" SUPPLEMENTARY TO  
"OPINION" 104)

**RULING** :—It is hereby ruled under the Plenary Powers that the generic name *Lepisma* Linnaeus, 1758 (Class Insecta, Order Thysanura) a name placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104, is to be treated as being of the feminine gender.

### I. THE STATEMENT OF THE CASE

On 11th July 1955 Mr. Francis Hemming, Secretary to the International Commission on Zoological Nomenclature prepared for the consideration of the Commission the following paper in which he drew attention to difficulties which had arisen in assigning to the generic name *Lepisma* Linnaeus, 1758 (Class Insecta, Order Thysanura), a name which had been placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104 (1928, *Smithson. misc. Coll.* 73 (No. 5) : 25—28) a gender which would be both correct and also consistent with established practice :—

**Proposed use of the Plenary Powers to prescribe for the generic name  
"Lepisma" Linnaeus, 1758 (Class Insecta, Order Thysanura) a  
gender in harmony with accepted usage**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The question of the gender to be attributed to the generic names in the Phylum Arthropoda placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 has recently been examined

in the light of a Report furnished, at the request of the International Trust for Zoological Nomenclature, by Mr. F. J. Lelievre, then of the Classical Languages Department of Bedford College, London University. If we leave aside the names of genera of the Order Decapoda placed on the *Official List* during the above period (which are being dealt with separately), we find, as the result of consultations with interested specialists, that in the case of all except one of the fifty-six generic names concerned, the gender which has been ascertained to be the correct gender is also the gender currently adopted by specialists in the group concerned. The single exception is the name *Lepisma* Linnaeus, 1758 (Class Insecta, Order Thysanura), with which the present application is concerned.

2. The word "Lepisma" is a Greek word of neuter gender. This name was, however, treated as a feminine word by Linnaeus and, as I am informed by Dr. Theresa Clay (*British Museum (Natural History), London*), has been so treated by all subsequent authors. Dr. Clay, writing on 7th January 1955, reported as follows:—

*Lepisma* contains something like twenty or thirty species and includes one name with a feminine termination which is widely used in the non-specialist literature, namely *Lepisma saccharina* Linnaeus, the silver fish.

3. In carrying out the duty imposed upon it under a General Directive issued by the International Congress of Zoology, Paris, 1948, that an appropriate gender be assigned to each generic name already by that time placed on the *Official List of Generic Names in Zoology*, the Commission has consistently taken the view that linguistic considerations should in this matter be tempered by a due regard for accepted nomenclatorial practice and should not be permitted to become the instrument for vexatious and confusing nomenclatorial changes. In view of the unanimous practice of specialists in assigning the feminine gender to the generic name *Lepisma* and the fact that the type species of this genus has as its specific name an adjective formed with a feminine termination (*Lepisma saccharina* Linnaeus, 1758) and is a species which is widely cited in non-specialist literature, it appears to me that this is a case which falls within the class for which the Commission has taken the view that an exception should be made to the general rule and is therefore one where common usage rather than linguistic niceties ought to prevail.

4. I accordingly recommend that the Commission should use its Plenary Powers to direct that the feminine gender be attributed to the generic name *Lepsima* Linnaeus, 1758, and that this gender be therefore inscribed in the entry on the *Official List of Generic Names in Zoology* relating to this name.

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper, the question of the gender to be attributed to the generic name *Lepisma* Linnaeus, 1758, was allotted the Registered Number Z.N.(S.) 988.

**3. Support received before publication :** Prior to the publication of the present application support for the attribution of the feminine gender to the generic name *Lepisma* Linnacus was received from two specialists. The comments so received are reproduced in the following paragraphs.

**4. Support received from Theresa Clay (British Museum (Natural History), London) :** On 18th July 1955 Dr. Theresa Clay (*British Museum (Natural History), London*) addressed the following letter to the Office of the Commission in regard to the present case :—

Linnaeus, when he originally described *Lepisma* in 1758, considered it to be feminine as shown by his inclusion of the species *L. saccharina* and it has been used in this gender since. *Lepisma saccharina* Linn., the widely distributed "silver-fish", is of some economic importance and has been frequently referred to in books and papers dealing with descriptions and control of insect pests. In the more specialised systematic literature there are some twenty or so species recognised in the genus, all of which have been accorded the feminine gender. In view of these facts I should like to support the proposed use of the Plenary Powers to attribute the feminine gender to the name *Lepisma* Linnaeus, 1758.

**5. Support received from M. J. Delany (University of Glasgow) :** On 29th July 1955 Mr. M. J. Delany (*University of Glasgow*) addressed the following letter of support for the present application to the Office of the Commission :—

I should like to support Mr. Hemming's recommendation that the feminine gender should be attributed to the generic name *Lepisma* Linnaeus, 1758.

To my knowledge all species of *Lepisma* have been accorded the feminine gender, as far as this is applicable, since 1758 when Linnaeus first described the genus under the name *Lepisma saccharina*. In view of this I suggest the International Commission exercises its Plenary Powers to validate the feminine gender of *Lepisma* Linnaeus, 1758, as proposed by Mr. Hemming.

**6. Publication of the present application :** The present application was sent to the printer on 23rd August 1955 and was published on 30th December in the same year in Part 9 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Hemming, 1955, *Bull. zool. Nomencl.* **11** : 299—300). The comments from Dr. Theresa Clay and Mr. Delany were published at the same time as the present application (Clay, 1955, *Bull. zool. Nomencl.* **11** : 300 ; Delany, 1955, *ibid.* **11** : 300).

**7. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 30th December 1955 (a) in Part 9 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's paper was published) and (b) to the other prescribed serial publications. In addition such Notice was given to four general zoological serial publications and to seven entomological serials in Europe and America.

**8. Comments received after the publication of the present application :** Following the publication of the present application comments were received from three specialists, of whom two supported and one objected to the action proposed in the present case. The comments so received are reproduced in the immediately following paragraphs.

**9. Support received from Joshua L. Baily, Jr. (San Diego, California, U.S.A.) :** On 27th January 1956 Dr. Joshua L. Baily, Jr. (*San Diego, California, U.S.A.*) addressed a letter to the Office of the Commission in which he commented on a number of applications which had recently been published in the *Bulletin*

of *Zoological Nomenclature*. His remarks concerning the present case were as follows :—

. . . . .

The third of these applications deals specifically with the generic name *Lepisma*, a name which is grammatically neuter, but which by common consent has always been treated as feminine. The genus is outside my field and I do not know if the statement is true that the feminine gender has always been attributed to this name, but if this be the case there is no reason why the gender should not be changed in order to facilitate stability.

**10. Support received from F. A. Urquhart (Royal Ontario Museum, Ontario, Canada) :** On 1st February 1956 Dr. F. A. Urquhart (*Royal Ontario Museum, Ontario, Canada*) addressed the following letter to the Office of the Commission in support of the present case :—

I most definitely would support the use of the plenary powers to prescribe for the generic name *Lepisma* a gender in harmony with accepted usage. I do not think it would accomplish any useful purpose to insist upon the proper gender "neuter" for this group word.

**11. Objection received from Jiří Paclt (Bratislava, Czechoslovakia) :** On 4th March 1956 Dr. Jiří Paclt (*Bratislava, Czechoslovakia*) addressed the following letter to the Office of the Commission in which he expressed his objections to the present case :—

The incorrect usage by Linnaeus, who believed the name *Lepisma* to be feminine in gender has not been followed by all subsequent authors. Of old authors, J. F. Gmelin (1790, *Systema Naturae* (ed. 13) 1(5) : 2906), L. Mitterpacher (1799, *Compendium Historiae Naturalis* : 279) and G. R. Treviranus (1817, *Vermischte Schriften* 2(8)) used all the correct (neuter) gender and wrote *Lepisma saccharinum*. Of more recent authors, G. de Rossi (1881, *Ent. Nachr.* 8 : 22) treated the name as neuter (*Lepisma saccharinum*) and O. Meissner, writing initially about *Lepisma saccharina* (1908, *Int. ent. Z.* 2 : 47), corrected himself later on to *Lepisma saccharinum* (1908, *ibid.* : 72). Also, H. Weidner corrected himself in the second edition of his "Bestimmungstabellen der Vorratsschädlinge und des Hausungeziefers Mitteleuropas" (1953 : 30—31), when speaking about *Lepisma* and

*Ctenolepisma*. Furthermore, some Russian authors are familiar with the correct gender of *Lepisma* (of the modern ones, Sarov).

Myself, I have throughout used, both in the *Genera Insectorum*, Thysanura (to be published shortly) and a standard monograph on Apterygota (1956, *Biol. primär flügellosen Insekten*, Jena) the correct (neuter) form of all specific epithets pertaining to the genus *Lepisma* and allied genera the names of which are formed from that name, e.g. *Heterolepisma* and *Ctenolepisma*. Finally, there were proposed recently generic names of several related genera (e.g. *Apteryskenoma*) which, for sake of certain grammatical uniformity with *Lepisma*, are likely to be neuter in gender.

We may remember the revised rule of the Amsterdam Colloquium for determining the gender of generic names: "The gender of a generic name consisting of a word of Greek or Latin origin is to be the gender of the word concerned as recorded in the standard lexicons of Classical Latin, notwithstanding any contrary zoological usage". We may remember also the existence of a number of important genera (e.g. *Ctenolepisma*) the name of which is derived from the *Lepisma* and would consequently raise the same problem of applying the Plenary Powers. It would appear somewhat absurd, therefore, to consider the application Z.N.(S.) 988 in detail. Nobody of the versed zoologists will, in my view, support such a proposal.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**12. Issue of Voting Paper V.P.(56)35 :** On 27th July 1956, a Voting Paper (V.P.(56)35) was issued in which the Members of the Commission were invited to vote either for, or against, "the proposal relating to the gender to be attributed to the generic name *Lepisma* Linnaeus, 1758, as set out in paragraph 4 on page 300 of Volume 11 of the *Bulletin of Zoological Nomenclature*" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**13. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 27th October 1956.



**14. Particulars of the Voting on Voting Paper V.P.(56)35 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(56)35 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Bodenheimer ; Riley ; Sylvester-Bradley ; Vokes ; Bradley (J.C.) ; Mertens ; Jaczewski ; Esaki ; Key ; Hankó ; Lemche ; Hemming ; Dymond ; Mayr ; Miller ; Bonnet ; Prantl ; Tortonese ; Boschma ; Stoll ; Kühnelt ; Cabrera ;

(b) *Negative Votes, two (2) :*

Hering ; do Amaral ;

(c) *Voting Papers not returned :*

None.

**15. Declaration of Result of Vote :** On 28th October 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(56) 35, signed a Certificate that the Votes cast were as set out in paragraph 14 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**16. Preparation of the Ruling given in the present “ Direction ”:** On 3rd April 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that

the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(56)35.

17. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

18. The present *Direction* shall be known as *Direction Seventy-One (71)* of the International Commission on Zoological Nomenclature.

DONE in London, this Third day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.11. Pp. 161—192**

## **DIRECTION 72**

Completion and in certain cases correction of entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* by Rulings given in *Opinions* rendered in the period up to the end of 1936

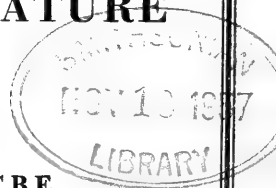
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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 72

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(12th August 1953)

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(16th December 1954)

## DIRECTION 72

COMPLETION AND IN CERTAIN CASES CORRECTION  
OF ENTRIES RELATING TO THE NAMES OF GENERA  
OF THE PHYLA MOLLUSCA, BRACHIOPODA,  
ECHINODERMATA AND CHORDATA MADE ON  
THE "OFFICIAL LIST OF GENERIC NAMES IN  
ZOOLOGY" BY RULINGS GIVEN IN  
"OPINIONS" RENDERED IN THE PERIOD  
UP TO THE END OF 1936

**RULING :—**(1) In the case of the names of each of the under-mentioned genera belonging to the Class Crinoidea the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73* is hereby completed by the insertion of the particulars as to the manner by which the type species was determined under Article 30 specified below :—

- (a) *Antedon* Fréminville, 1811 : by monotypy ;
- (b) *Bathycrinus* Thompson, 1872 : by monotypy ;
- (c) *Holopus* d'Orbigny, 1837 : by monotypy ;
- (d) *Metacrinus* Carpenter, 1882 : by selection by Clark (A.H.) (1908).

(2) In the case of the names of each of the under-mentioned genera belonging to the Classes severally noted below the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 94* is hereby completed by the insertion of the particulars as

to the manner in which the type species was determined under Article 30 specified below :—

(i) Class Gastropoda

- (a) *Buccinum* Linnaeus, 1758 : by selection by de Montfort (1810) ;
- (b) *Helix* Linnaeus, 1758 : by selection by de Montfort (1810) ;
- (c) *Limax* Linnaeus, 1758 : by selection by Férussac (1819) ;
- (d) *Physa* Draparnaud, [1801] : by selection by Children (J.G.) (1823) ;
- (e) *Succinea* Draparnaud, [1801] : by selection by Gray (J.E.) (1847) ;

(ii) Class Scaphopoda

- (f) *Dentalium* Linnaeus, 1758 : by selection by de Montfort (1810) ;

(iii) Class Pelecypoda

- (g) *Maetra* Linnaeus, 1767 : by selection by Gray (J.E.) (1847) ;
- (h) *Mya* Linnaeus, 1758 : by selection by Children (J.G.) (1822) ;
- (i) *Ostrea* Linnaeus, 1758 : by Linnean tautonymy ;
- (j) *Sphaerium* Scopoli, 1777 : by selection by Gray (J.E.) (1847) ;
- (k) *Teredo* Linnaeus, 1758 : by selection by Children (J.G.) (1822) ;

(iv) Class Cephalopoda

- (l) *Argonauta* Linnaeus, 1758 : by selection by Children (J.G.) (1824) ;

(m) *Sepia* Linnaeus, 1758 : by Linnean tautonymy.

(3) It is hereby directed that in the entry on the *Official List of Generic Names in Zoology* relating to the names of each of the under-mentioned genera of the Class Urochorda there be inserted a statement that the type species specified therefor by the Ruling given in *Opinion 94* was selected as such under Rule (g) in Article 30 by Apstein (K.) in 1915 on page 185 of the paper entitled "Nomina Conservanda" published in Part 5 of the volume for 1915 of the serial publication *SitzBer. Ges. Naturforsch. Freunde zu Berlin*, the entries so to be made in respect of the first and second of the names specified below to be in completion of the entries made by the Ruling given in the *Opinion* referred to above and that in respect of the third of the names in question to be in substitution for the incorrect entry made on the foregoing *Official List* by the Ruling given in the said *Opinion* :—

- (a) *Botryllus* Gaertner, 1774 ;
- (b) *Clavelina* Savigny, 1816 ;
- (c) *Distaplia* Della Valle, 1881.

(4) The following amended entry relating to the determination of the type species of the genus *Oleacina* Röding, 1798 (Class Gastropoda) is hereby substituted for the incorrect entry in regard thereto made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 119* :—"type species, by monotypy, through the application of *Declaration 21* : *Bulla voluta* Gmelin, [1791]"

(5) The entry relating to the generic name *Vitrina* Draparnaud, [1801] (Class Gastropoda) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 119* is hereby completed by the insertion of the following particulars :—"type species, by monotypy : *Helix pellucida* Müller (O.F.), 1774"

(6) The incorrect date and reference attributed to the generic name *Rhizocrinus* Sars (M.) (Class Crinoidea) when that name was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73* are hereby deleted from the entry on the above *List* and the following revised particulars are hereby inserted in place of those so deleted :—" 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39".

(7) The following amended particulars relating to the type species of the genus *Rhizocrinus* Sars (M.), (Class Crinoidea) are hereby inserted in the entry in regard thereto made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73*, as amended by (6) above, in place of the incorrect and incomplete particulars there given :—*Rhizocrinus lofotensis* Sars (M.), 1868 (*Mém. serv. Conn. Crin. viv.* : 1, 39).

(8) The date " 1767 " is hereby substituted for the date " 1766 " as the date of publication of the name *Helix pulligera* Linnaeus at the point where that name was inserted on the *Official List of Generic Names in Zoology* as the name of the type species of the genus *Neritina* Lamarck, 1816 (Class Gastropoda) in accordance with the Ruling given in *Opinion 119*.

(9) The authorship of, and the date for, the generic name *Leucochilus* (Class Gastropoda) when that name was cited in the Ruling given in *Opinion 115* is hereby corrected by the substitution of the revised entry " Boettger, [1880] " for the incorrect entry " von Martens, 1881 ".

(10) It is hereby directed that in the entry on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion 115* the following endorsement be added to the entry relating to the generic name *Leucochila* von Martens, 1860 (Class Gastropoda) :—" for use by specialists who are of the opinion that the taxon so named is distinct from the older established nominal taxon *Pupoides* Pfeiffer, 1854 ".



(11) The under-mentioned generic names are hereby placed on the *Official List of Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Pupoides* Pfeiffer (L.G.C.), 1854 (gender : masculine)  
(type species, by selection by Gude (1914) :  
*Pupoides nitidulus* Pfeiffer (L.G.C.), 1854) (Class  
Gastropoda) (Name No. 1199) ;
- (b) *Gastrocopta* Wollaston, 1878 (gender : feminine)  
(type species, by selection by Pilsbry (1916) :  
*Pupa acarus* Benson, 1856) (Class Gastropoda)  
(Name No. 1200).

(12) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *nitidulus* Pfeiffer (L.G.C.) 1854, as published in the combination *Pupoides nitidulus* (specific name of type species of *Pupoides* Pfeiffer (L.G.C.), 1854 Name No. 1328) ;
- (b) *acarus* Benson, 1856, as published in the combination *Pupa acarus* (specific name of type species of *Gastrocopta* Wollaston, 1878) (Name No. 1329) ;
- (c) *armifera* Say, 1821, as published in the combination *Pupa armifera* (Name No. 1330).

(13) It is hereby directed that the Ruling given in *Opinion* 115 by which the generic name *Leucochilus* Boettger, [1880] (there inadvertently attributed to von Martens and treated as having been published in 1881) was suppressed under the Plenary Powers is to be interpreted as though it contained an express direction that the above generic name be suppressed for the purposes of the Law of Homonymy as well as for those of the Law of Priority.

(14) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name No. 1201 :—

*Leucochilus* Kraatz, [1897], as validated by the Ruling given in *Opinion* 115, as clarified by (13) above (gender : masculine) (type species, by monotypy : *Leucocelis notaticollis* Kraatz, [1897]) (Class Insecta, Order Coleoptera).

(15) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1331 :—*notaticollis* Kraatz, [1897], as published in the combination *Leucocelis notaticollis* (specific name of type species of *Leucochilus* Kraatz, [1897]).

(16) The under-mentioned generic names or reputed generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (i) *Anodonta* Saunders, 1843 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 960) ;
- (ii) *Anodonta* Herrich-Schaeffer, 1855 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 961) ;
- (iii) *Anodonta* Rambur, 1858 (a junior homonym of *Anodonta* Lamarck, 1799) (Name No. 962) ;
- (iv) *Bothyllus* Hesse, 1864 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 963) ;
- (v) *Botrillus* Oken, 1829 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 964) ;

- (vi) *Botryllis* Porro, 1841 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 965) ;
- (vii) *Botrylus* Koelliker & Loewig, 1846 (an Erroneous Subsequent Spelling for *Botryllus* Pallas, 1774) (Name No. 966) ;
- (viii) *Botryllus* Oken, 1815 (a junior homonym of *Botryllus* Pallas, 1774) (Name No. 967) ;
- (ix) *Dentalius* Forbes, 1841 (an Erroneous Subsequent Spelling for *Dentalium* Linnaeus, 1758) (Name No. 968) ;
- (x) *Diazone* Usov, 1875 (an Erroneous Subsequent Spelling for *Diazona* Savigny, 1816) (Name No. 969) ;
- (xi) *Helix* Férussac, 1821 (a junior homonym of *Helix* Linnaeus, 1758) (Name No. 970) ;
- (xii) *Holothuria* Linnaeus, 1758 (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy) (Name No. 971) ;
- (xiii) *Leucochilus* Boettger, [1880] (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy) (Name No. 972) ;
- (xiv) *Limax* Pallas, 1774 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 973) ;
- (xv) *Limax* Martyn, 1784 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 974) ;
- (xvi) *Limax* Férussac, 1819 (a junior homonym of *Limax* Linnaeus, 1758) (Name No. 975) ;

- (xvii) *Mya* Rondani, 1850 (a junior homonym of *Mya* Linnaeus, 1758) (Name No. 976) ;
- (xviii) *Neritina* Rafinesque, 1815 (a *nomen nudum*) (Name No. 977) ;
- (xix) *Physa* Raffray, 1890 (a junior homonym of *Physa* Draparnaud, [1801]) (Name No. 978) ;
- (xx) *Pupa* Lamarck, 1801 (a junior objective synonym of *Cerion* Röding, 1798) (Name No. 979) ;
- (xxi) *Pyrosoma* Dahlbom, 1854 (a junior homonym of *Pyrosoma* Péron, 1804) (Name No. 980) ;
- (xxii) *Pyrosoma* Smith & Kilborne, 1893 (a junior homonym of *Pyrosoma* Péron, 1804) (Name No. 981) ;
- (xxiii) *Rhizocrinus* Sars (M.), 1865 (a *nomen nudum*) (Name No. 982) ;
- (xxiv) *Sphaerium* Charpentier, 1825 (a junior homonym of *Sphaerium* Scopoli, 1777) (Name No. 983) ;
- (xxv) *Spirifera* Murray, 1831 (an Invalid Emendation of *Spirifer* Sowerby (J.), 1816) (Name No. 984) ;
- (xxvi) *Teredo* Hübner, [1809—1813] (a junior homonym of *Teredo* Linnaeus, 1758) (Name No. 985) ;
- (xxvii) *Vitria* Hall, 1867 (an Erroneous Subsequent Spelling for *Vitrina* Draparnaud, [1801]) (Name No. 986) ;
- (xxviii) *Vitrinus* de Montfort, 1810 (an Invalid Emendation of *Vitrina* Draparnaud, [1801]) (Name No. 987).

(17) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid Specific*

*Names in Zoology* with the Name Numbers severally specified below :—

- (i) *volutata* Röding, 1798, as published in the combination *Oleacina volutata* (a junior objective synonym of *voluta* Gmelin, [1791], as published in the combination *Bulla voluta*) (Name No. 419) ;
- (ii) *lofotensis* Sars (M.), 1865, as published in the combination *Rhizocrinus lofotensis* (a *nomen nudum*) (Name No. 420).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* contains decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing, and, where necessary, of correcting, the entries in regard to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, this action being a necessary preliminary to the publication of the *Official List* in book form. The proposals upon which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 28th August 1956 in the following paper :—

**Proposed completion and correction of certain entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the “ Official List of Generic Names in Zoology ” by Rulings given in “ Opinions ” rendered in the period up to the end of 1936**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains particulars of certain omissions and errors in the entries relating to the names of genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made in the

*Official List of Generic Names in Zoology* by Rulings given in *Opinions* rendered in the period up to the end of 1936. The various matters which it is necessary now to bring to the attention of the Commission are set out as briefly as possible in the immediately following paragraphs. The action which it is recommended that the International Commission should now take is summarised in the concluding paragraph (paragraph 20).

2. The elucidation of the problems involved in the present group of names has been greatly assisted by the co-operation and advice afforded by a number of specialists in the groups concerned. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they held at the time when consultations took place, and (b) of the Classes on the names of genera of which assistance has been given, are the following :—

- L. Bairstow (*British Museum (Natural History), London*) (Class Cephalopoda)
- J. Balfour-Browne (*British Museum (Natural History), London*) (on a problem relating to the Order Coleoptera (Class Insecta) found to be involved in connection with the name of a genus belonging to the Class Gastropoda)
- R. S. Bassler (*Smithsonian Institution, U.S. National Museum, Washington, D.C., U.S.A.*) (Class Crinoidea)
- N. J. Berrill (*McGill University, Montreal, Canada*) (Class Urochorda)
- L. R. Cox (*British Museum (Natural History), London*) (Class Gastropoda)
- Karl Jordan (*British Museum (Natural History), Zoological Museum, Tring, Herts.*) (Classes Brachiopoda, Gastropoda, Urochorda)
- Raymond C. Moore (*University of Kansas, Lawrence, Kansas, U.S.A.*) (Class Crinoidea)
- Miss Helen M. Muir-Wood (*British Museum (Natural History), London*) (Class Brachiopoda)
- Hans Schein (*Rechtsk. Stadtdirektor, München, Germany*) (on the same Coleopterological problem as that on which advice was received from J. Balfour-Browne)
- R. Winckworth (*London*).

3. The cases dealt with in the present paper fall into four groups, namely : (a) cases where no information or inadequate or incorrect information as to how the type species of genera had been determined under Article 30 was given in the *Opinions* in which the generic names in question were placed on the *Official List of Generic Names in Zoology* ; (b) cases where wrong dates or wrong references were cited at the

time when generic names were placed on the *Official List* ; (c) the case of the name *Leucochilus* Boettger, [1880], which was suppressed under the Plenary Powers by the Ruling given in *Opinion* 115, in which a number of problems calling for action by the International Commission are involved ; (d) cases where objectively invalid names, either generic or specific, are involved and the addition of those names to the appropriate *Official Index of Rejected and Invalid Names in Zoology* is therefore called for.

**(1) Proposed insertion in the " Official List of Generic Names in Zoology " of particulars as to the method by which the type species of twenty-two genera were determined under Article 30 of the " Règles "**

4. In all there are twenty-three entries on the *Official List* of the names of genera belonging to the Phyla dealt with in the present paper, for which no information or incorrect information as to the method by which the type species of the genera concerned had been determined under Article 30 of the *Règles* was given in the *Opinions* in which the names in question were placed on the *Official List*. The *Opinions* containing these defective entries were : *Opinion* 73 (four entries) ; *Opinion* 94 (seventeen entries) ; *Opinion* 119 (two entries). In one case (*Mytilus*) the necessary information had been given in a more recent *Opinion* (*Opinion* 333). The number of names on which action now requires to be taken is thus twenty-two. In five cases special problems arise which are discussed separately below : *Botryllus*, *Clavelina*, *Distaplia* (paragraph 5) ; *Oleacina* (paragraph 6) ; *Vitrina* (paragraph 7). In the remaining seventeen cases no difficulty arises and all that is required is that gaps left in *Opinions* 73 and 94 should now be filled in. The required particulars are given in Annexe 1 to the present paper.

5. **Three generic names of Urochorda placed on the " Official List " by the Ruling given in " Opinion " 94 :** There are three names of genera of the Class Urochorda which were placed on the *Official List* by the Ruling given in *Opinion* 94 which call for special mention. The names concerned are : *Botryllus* Gaertner, 1774 ; *Clavelina* Savigny, 1816 ; *Distaplia* Della Valle, 1881. The third of these genera was incorrectly stated to be monotypical while for the other two no particulars were given as to how the type species had been determined. Careful search has been made for information on this subject but without success. The number of systematic works on this group is small and the authors who have written on it have for the most part shown little interest in the details of nomenclature. The nominal species specified in *Opinion* 94 as the respective type species of these genera were in each case originally included species and are therefore eligible for selection as type species. Moreover, these species are currently included by specialists in the genera concerned. The proposal for the addition of

these generic names to the *Official List* was submitted to the Commission on the basis of Dr. Karl Apstein's celebrated paper entitled "Nomina conservanda" published in May 1915 (*SitzBer. Ges. Naturforsch. Freunde Berlin* 1915 (5) : 119—202). As used in this paper the expression "nomina conservanda" bore its simple meaning of "names which ought to be preserved" and had not at that time acquired the more specialised meaning of "technically defective names which ought nevertheless to be preserved for use in their accustomed sense" to which it was later commonly restricted, for many scores of the names which Apstein included in his list are perfectly valid and the nominal species which he cited for each genus is the valid type species under the *Règles*. I am of the opinion therefore that the reasonable course to adopt in the case of the three names here under consideration is to accept Apstein as having himself selected the type species for the genera in question in the foregoing paper. The alternative would be to treat the Commission as having made these type selections in its *Opinion* 94. Such a view would, however, be very artificial, for the Commission certainly did not look upon itself as making any type selections for genera in that *Opinion*, making it clear indeed that it was doing no more than giving approval to Apstein's proposal of 1915 that the names there specified should be protected—i.e. recognised as *nomina conservanda* in the non-specialised sense in which Apstein had used that term—through the addition of the names concerned to the *Official List of Generic Names in Zoology*. It is accordingly recommended that the Commission should treat each of the generic names concerned as having had their respective type species selected under Rule (g) in Article 30 in Apstein's paper "Nomina conservanda". In each case the type-selection will be found on page 185 of Apstein's paper.

6. "Oleacina" Röding, 1798 : This name was placed on the *Official List* by the Ruling given in *Opinion* 119 with *Bulla voluta* Gmelin, [1791] (in Linnaeus, *Syst. Nat.* (ed. 13) 1(6) : 3433) as type species. Reference to Röding's original publication of the name *Oleacina* (*Mus. Bolten.* 2 : 210) shows that he recognised only one taxon as belonging to this genus and that he cited this species under the name *Oleacina volutata*. Other things being equal, it would therefore be necessary to cite the type species of this genus under the above name. The name *Oleacina volutata* Röding is, however, no more than a *nom. nov.* for *Bulla voluta* Gmelin, [1791], the name which (with the incorrect date "1790") was (as explained above) cited by the Commission in *Opinion* 119 as the name of the type species of this genus. The name *volutata* Röding, 1798, is thus a junior objective synonym of *voluta* Gmelin, [1791]. It is necessary at this point to note that the Commission has recently given a Ruling in *Declaration* 21 that "where one or two or more objectively identical nominal species is designated, indicated or selected as the type species of a genus, that genus shall be cited as having as its type species the oldest established of the nominal species concerned". Since the type species of the



present genus was "indicated" under Rule (c) in Article 30 and the two nominal species cited above are objectively identical with one another, *Declaration* 21 applies in this case. Accordingly the genus *Oleacina* Röding, 1798, should be cited on the *Official List* as having as its type species *Bulla voluta* Gmelin, [1791] by monotypy, through the application of *Declaration* 21. At the same time the objectively invalid specific name *volutata* Röding, 1798 (*Oleacina*) should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. A recommendation in this sense is submitted in Section B of Annexe 2 to the present paper.

7. "Vitrina" Draparnaud, [1801] : This generic name was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 119, its type species being there stated to be *Helix pellucida* Müller (O.F.), 1774. Further, the specific name *pellucida* Müller has since been placed on the *Official List of Specific Names in Zoology* by the Ruling given in *Opinion* 336. The only point which still calls for attention is the method by which under Article 30 the above nominal species became the type species of *Vitrina* Draparnaud. There was no clear statement on this subject in the Ruling given in the above *Opinion*, while in the main body of that document there was a confused discussion which in the light of later clarifications of Article 30 is now seen to have been irrelevant. Shortly, the point made in that discussion may be summarised as follows : (i) Draparnaud in 1801 established the genus *Vitrina* with only one nominal species included species, namely what he called *Vitrina pellucida*, for which he cited *Helix pellucida* Müller in synonymy. (ii) In a later work published in 1805 Draparnaud published a figure of *pellucida* which, in the opinion of the author of this part of *Opinion* 119, represented not the true *pellucida* of Müller but another species which later (in 1807) was named *Helicolimax major* by Férussac. (iii) It was argued therefore that Draparnaud confused—or might have confused—two species under the name "*pellucida*" when he established the genus *Vitrina*. (iv) Montfort in 1810 (*Conch.* 2 : 239) definitely selected *Vitrinus* [emend. of *Vitrina*] *pellucida* as the type species of the genus *Vitrina* Draparnaud, but in the discussion in this *Opinion* his action was rejected on the grounds that he also may have confused the two species. (v) Two other selections of *Vitrina pellucida* as the type species of *Vitrina* Draparnaud, the first by Children (1823, *Quart. J. Sci. Lit. Arts* 15 : 236) and the second by Gray (1847, *Proc. zool. Soc. Lond.* 15 : 170) were rejected in the discussion in *Opinion* 119 on the ground that they did not cite an author's name for *pellucida* and therefore (as it was argued) it was impossible to be sure that they had in mind the true *pellucida* of Müller. (vi) Herrmannsen in 1849 (*Index malac.* 2 : 696) was the first to state that *Vitrina pellucida*, expressly attributed to Müller, was the type species of *Vitrina* Draparnaud. (vii) In the discussion in the above *Opinion* Herrmannsen was accordingly looked upon as having first definitely selected *Helix pellucida* Müller as the type species

of *Vitrina* Draparnaud, to the total exclusion of *Helicolimax major* Férussac. The discussion summarised above illustrates very clearly the difficulties which were bound to arise from time to time, so long as it was considered permissible in a discussion on nomenclature to import extraneous considerations of a taxonomic character. This difficulty was finally disposed of by the Thirteenth International Congress of Zoology when it incorporated into the *Règles* a provision that, save in certain exceptional circumstances which do not apply in the present instance, the author of the name of a nominal genus is to be assumed to have determined correctly the nominal species placed by him in the genus so named (1950, *Bull. zool. Nomencl.* 4 : 158—159). In the light of this decision we see that Draparnaud is to be assumed to have correctly identified the nominal species *Helix pellucida* Müller when he included it in his new genus *Vitrina* in 1801. All the discussion on this subject in *Opinion* 119 is thus seen to have been irrelevant. So also was the portion of that discussion which was concerned with the question of who should be accepted as having selected *Helix pellucida* Müller as the type species of *Vitrina* Draparnaud, for, as actually stated in that discussion, the above species was the sole nominal species included by Draparnaud in his nominal genus *Vitrina* at the time of its establishment in 1801 and was accordingly the type species of that genus by monotypy from the first moment of the publication of the name *Vitrina* Draparnaud. The action now called for in this case is a direction that in the entry on the *Official List* relating to the name of the foregoing genus, the type species (*Helix pellucida* Müller (O.F.), 1774) is to be entered as having been determined by monotypy (Rule (c) in Article 30).

**(2) Cases where wrong dates or wrong references were  
cited when generic names were placed on the  
“ Official List ”**

8. In two cases either wrong dates or wrong references were cited when generic names belonging to the group dealt with in the present paper were placed on the *Official List*. The relevant particulars are given in paragraphs 9 and 10 below.

9. “ *Rhizocrinus* ” Sars (M.) : This name was placed on the *Official List* by the Ruling given in *Opinion* 73. The date and reference there given for this name were as follows : “ 1864, 127 (*Forhandl. Vidensk. Selsk*) ”. The type species was cited as “ *R. lofotensis* ”. Two points call for notice in connection with the foregoing entries. First, the date cited is the date of the volume concerned in the sense that it was the volume for the year 1864, but it is not the date of publication of the volume which, as stated on the title page, did not appear until 1865. Second, the generic name *Rhizocrinus* and the binomen *Rhizocrinus lofotensis*, as published in this volume are the barest of *nomida nuda*, occurring only in a two-line note of a meeting held on 14th October 1864. The first valid publication of the generic name *Rhizocrinus* and of the specific name *lofotensis* (*Rhizocrinus*) appears to have been

in a book by Sars published in 1868. The entry on the *Official List* relating to this generic name should be amended to read as follows : *Rhizocrinus* Sars (M.), 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39 (type species, by monotypy : *Rhizocrinus lofotensis* Sars (M.), 1868, *ibid.* : 1, 39). The widely cited (and often wrongly accepted) *nomen nudum* *Rhizocrinus* Sars, 1865, should be placed on the *Official Index of Rejected and Invalid Generic Names* and the *nomen nudum lofotensis* (*Rhizocrinus*) of 1865 should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. Recommendations in this sense are submitted in Sections A and B respectively of Annexe 2 to the present paper. Finally the name *lofotensis* (*Rhizocrinus*) Sars, 1868, should be placed on the *Official List of Specific Names in Zoology*. A recommendation in this sense is included in Paper Z.N.(S.) 1124, which is being submitted to the Commission simultaneously with the present paper<sup>1</sup>.

**10. “*Neritina*” Lamarck, 1816 :** When this name was placed on the *Official List of Generic Names in Zoology*, by the Ruling given in *Opinion* 119, the date “1766” was attributed to its type species, *Nerita pulligera* Linnaeus. This name was published on page 1253 of volume 1 of the Twelfth Edition of the *Systema Naturae*. That volume was published in two Parts, of which Part 1 (containing pages 1—532) appeared in 1766 and Part 2 (containing pages 533—1327) in 1767. The correct date for *Nerita pulligera* Linnaeus is therefore 1767.

**(3) Special problem arising on “*Opinion*” 115 (entitled “*Status of ‘Leucochilus’*”)**

**11.** It is necessary now to consider various problems which arise in connection with the Ruling given in *Opinion* 115, which was published under the title “*Status of Leucochilus*”. In order to appreciate the nature of the various problems involved, it is necessary to examine the wording of the Ruling (there styled “*Summary*”) given in the above *Opinion*. This was as follows : “The Commission herewith suppresses *Leucochilus* von Martens, 1881, in favour of *Leucochila* von Martens, 1860, type *Pupa fallax* Say. Any other course would involve risk of lasting and constant confusion in two rather closely allied genera”. When I first examined this *Opinion*, I found myself unable to understand its meaning until I realised that the attribution to von Martens of the name *Leucochilus* was the result of some *lapsus calami* on the part of the draftsman of this *Opinion* and that, as is apparent from the discussion given in the main body of the *Opinion*, the name intended was *Leucochilus* Boettger (O.). The mistake arose no doubt from the fact that this name was published in von Marten’s *Conchologische Mitteilungen*. Boettger’s name *Leucochilus* was

<sup>1</sup> The paper here referred to was submitted to the International Commission with Voting Paper V.P.(O.M.)(56)21. It has since been included in *Direction* 73, in which has been embodied the decision taken by the Commission on the foregoing Voting Paper. That *Direction* is being published in the immediately following Part (Part E.12) of the present Section of Volume 1 of the present Series.

published in 1880 and not in 1881, the date erroneously attributed to it in *Opinion 115*.

12. The second point to be noted is that through some oversight no reference was made in this *Opinion* to the *Official List of Generic Names in Zoology* but that by a decision by the Thirteenth International Congress of Zoology, Paris, 1948, every generic name accepted by the Commission in an *Opinion* as the oldest available name for a given taxon is to be placed on the *Official List*. Naturally, this decision applies with particular force to a case where, as here, the Commission uses its Plenary Powers to protect a particular name. Accordingly, under the foregoing decision the name *Leucochila* von Martens, 1860, is to be treated as having been automatically placed on the *Official List*. It has been allotted the Name Number 543.

13. In this *Opinion* the Commission took the view that the names *Leucochila* von Martens, 1860, and *Leucochilus* Boettger (O.) [1880], were not homonyms of one another, a view which remains as correct today as it was at the time of the adoption of this Ruling, being fully in accord with the single-letter rule adopted by the Copenhagen Congress of 1953 for determining homonymy in generic names. The Commission decided also that the above names were not objective synonyms of one another, as they would have been if it had been held that the later published name was only an Erroneous Subsequent Spelling for *Leucochila*. The Commission, however, accepted the view that these two generic names might be held to be subjective synonyms of one another. While correctly abstaining from expressing an opinion on this point, the Commission were impressed by the confusion which would be likely to arise if these two names differing, from one another only by having in one case a masculine termination (“-us”) and in the other a feminine termination (“-a”) were both to remain available names and decided to ensure against this risk by suppressing the later published of the two names involved (*Leucochilus* Boettger, [1880]), under its Plenary Powers. This latter name requires now to be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*. A recommendation in this sense is submitted in Section A of Annexe 2 to the present paper.

14. The next point to be considered is the present taxonomic status both of the genus *Leucochila* von Martens, 1860, and of the genus which Boettger in 1880 named *Leucochilus*. It appears from the investigations carried out by this Office that *Leucochila* von Martens is considered at least by most authors as a junior subjective synonym of *Pupoides* Pfeiffer, 1854, while the name *Leucochilus* Boettger, [1880], even if it had not been suppressed by the Commission under its Plenary Powers, would today have been rejected as a junior subjective synonym of *Gastrocopta* Wollaston, 1878. If the matter was being looked at today for the first time, it seems unlikely that the Commission would have either suppressed the name *Leucochilus* Boettger, [1880] or have placed *Leucochila* von Martens on the *Official List*, but, as this action was taken, the best course as regards the latter of these names appears to be

to endorse the entry regarding it on the *Official List* to the effect that the name is so entered for use by specialists who consider that the taxon so named is distinct from that represented by the nominal genus *Pupoides* Pfeiffer. This course has the advantage that it avoids the need for the Commission to take a view on a purely taxonomic question (the taxonomic relationship of *Leucochila* and *Pupoides* with one another) which would be inescapable if it were to decide to remove the name *Leucochila* von Martens from the *Official List*. Moreover, action in this sense is in strict accord with the procedure which by a Directive issued by the Paris Congress of 1948 the Commission is required to take when considering the addition to the *Official List* of a name which by some specialists is regarded as a subjective junior synonym of some other name. It is naturally a part of the proposal now submitted that the names *Pupoides* Pfeiffer, 1854, and *Gastrocopta* Wollaston, 1878, should be placed on the *Official List of Generic Names in Zoology*. The bibliographical and other references which will need to be inserted in the *Official List* in regard to these names are given below, the gender proposed to be assigned to each name being that which has been advised to be correct by Professor L. W. Grensted, the Commission's Consulting Classical Adviser :—

- (i) *Pupoides* Pfeiffer (L.G.C.), 1854, *Malak. Bl.* 1 : 192 (gender : masculine) (type species, by selection by Gude, 1914 (*Faun. Brit. Ind.*, Moll. 2 : 259) : *Pupoides nitidulus* Pfeiffer (L.G.C.), 1854, *Malak. Bl.* 1 : 192) ;
- (ii) *Gastrocopta* Wollaston, 1878, *Testacea atlantic.* : 515 (gender : feminine) (type species, by selection by Pilsbry, 1916 (*in* Tryon and Pilsbry, *Man. Conch.* 24 : 7) : *Pupa acarus* Benson, 1856, *Ann. Mag. nat. Hist.* (2) 18 : 435).

15. As a corollary to the foregoing proposals it will be necessary to place on the *Official List of Specific Names in Zoology* the specific names for the type species of the genera *Pupoides* Pfeiffer and *Gastrocopta* Wollaston respectively, as both of these specific names are available names and are moreover the oldest such names for the taxa concerned. The names concerned are *nitidulus* Pfeiffer, 1854, (*Pupoides*) and *acarus* Benson, 1856 (*Pupa*). The references for these names have been given in paragraph 14 above. Finally, it will be necessary similarly to place on the foregoing *Official List* the specific names of the type species respectively of *Leucochila* von Martens, 1860, and of *Leucochilus* Boettger, [1880], since both these names are available names and are the oldest available names for the taxa in question. The nominal species concerned are : (a) *Pupa fallax* Say, 1825 (*J. Acad. nat. Sci. Philad.* 5 : 121), the type species, by original designation, of *Leucochila* von Martens, 1860 ; (b) *Pupa armifera* Say, 1821 (*J. Acad. nat. Sci. Philad.* 2 : 162), the type species, by monotypy, of *Leucochilus* Boettger, [1880]. Of these recommenda-

tions a proposal as regards the first is included in the Paper numbered Z.N.(S.) 1124, which is being submitted simultaneously with the present paper ; that regarding the second is submitted in the present paper.

16. It is necessary next to consider the extent to which the generic name *Leucochilus* Boettger, [1880], is to be treated as having been suppressed under the Plenary Powers. Is it to be treated as having been suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy ? Or is it to be treated as having been suppressed for the purposes both of the Law of Priority and of the Law of Homonymy ? In view of the fact that the object of suppressing this name was to prevent it from being used in competition with the name *Leucochila* von Martens, the normal procedure would be to regard it as having been suppressed for the purposes of the Law of Priority only, that is, for it to be kept alive for the purposes of the Law of Homonymy ; for the suppression of names for the purposes of the Law of Homonymy as well as for those of the Law of Priority is confined to cases where it is desired not only to get rid of a name as published at a given date but also to use it again as from some later date. These considerations are of importance in the present case because it appears that there is a later generic name consisting of the word *Leucochilus* which was published in 1897 and which is currently in use in the Class Insecta (Order Coleoptera), notwithstanding the fact that, owing to the lack of precision in the Ruling given in *Opinion* 115 it is not clear whether the name concerned is available for use in the Class Insecta or whether the name so used should be rejected as being a junior homonym of *Leucochilus* Boettger, [1880]. In these circumstances it is evident that the logical—as well as the only sensible—course is to treat the generic name *Leucochilus* Boettger, [1880], as having been suppressed by the Commission by the Ruling given in *Opinion* 119 not only for the purposes of the Law of Priority but also for those of the Law of Homonymy, for this avoids the need for rejecting the name *Leucochilus* Kraatz, [1897], as being a junior homonym of *Leucochilus* Boettger, [1880].

17. The nominal genus *Leucochilus* Kraatz, [1897] (*Deuts. ent. Z.* 1896 : 375) was established for an obscure taxon belonging to the family CETONIDAE (Class Insecta, Order Coleoptera) found in Somaliland. The type species of this genus by monotypy is *Leucocelis notaticollis* Kraatz, [1897] (*ibid.* 1896 : 71, footnote). The generic name *Leucochilus* Kraatz is listed in the *Col. Cat.* (21(72) : 323) as the name of a taxonomically valid genus and is currently in use. It is recommended (a) that the name *Leucochilus* Kraatz, [1897] (type species as noted above) (gender : masculine), which, if the recommendation submitted in paragraph 16 above is approved, will not be a junior homonym of *Leucochilus* Boettger, [1880], be now placed on the *Official List of Generic Names in Zoology*, and (b) that *notaticollis* Kraatz, [1897] (*Leucocelis*), the specific name of its type species, be placed on the *Official List of Specific Names in Zoology*.

**(4) Proposed addition of certain objectively invalid names to the "Official Indexes of Rejected and Invalid Names in Zoology"**

18. As in the case of reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the review of the present group of names has brought to light a number of objectively invalid generic names and a few objectively invalid specific names, all of which should now be placed on the appropriate *Official Index of Rejected and Invalid Names in Zoology*. Full particulars are given in Annexe 2, the generic names being listed in Section A, the specific names in Section B.

**(5) Family-group-name problems**

19. A number of the genera, the names of which are dealt with in the present instalment of the review of names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, are the type genera of family-group taxa. Considerable progress has been made in collecting the information required for the preparation of proposals for the addition of the family-group names concerned to the *Official List of Family-Group Names in Zoology*. As in the case of previous instalments of this review it is proposed to defer the submission to the Commission of proposals on this subject until after the completion of the examination of the problems arising directly at the generic-name level.

**(6) Recommendations**

20. In the light of the particulars given in the preceding paragraphs regarding the action needed to complete and, where necessary, to correct the entries relating to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* by Rulings given by the Commission in the period up to the end of 1936, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* rendered in the foregoing period issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names enumerated in Annexe 1 to the present paper the particulars there specified as to the manner in which the type species of the genus concerned was determined under Article 30 of the *Règles* (paragraph 4) ;

- (2) insert on the foregoing *Official List* in respect of the generic names *Botryllus* Gaertner, 1774, *Clavelina* Savigny, 1816, and *Distaplia* Della Valle, 1881, an entry that the type species severally specified therefor by the Ruling given in *Opinion* 94 were selected as such under Rule (g) in Article 30 by Apstein (K.) in 1915 on page 185 of a paper entitled “*Nomina conservanda*” in Part 5 of the volume for 1915 of the serial publication *SitzBer. Ges. Naturforsch. Freunde zu Berlin*, the entries so made in respect of the first and second of the above names to be in completion of the entries made by the Ruling given in the foregoing *Opinion* and that in respect of the third of the above names to be in substitution for the incorrect entry made by the Ruling given in that *Opinion* (paragraph 5) ;
- (3) substitute the following amended entry on the *Official List* relating to the determination of the type species of the nominal genus *Oleacina* Röding, 1798, for the entry in regard thereto made under the Ruling given in *Opinion* 119 : “type species, by monotypy, through the application of *Declaration* 21 : *Bulla voluta* Gmelin, [1791]” (paragraph 6) ;
- (4) insert in the entry on the *Official List* relating to the generic name *Vitrina* Draparnaud, [1801], an entry that the type species of the genus so named is *Helix pellucida* Müller (O.F.), 1774, by monotypy (paragraph 7) ;
- (5) delete the incorrect date and reference attributed to the generic name *Rhizocrinus* Sars (M.) by the Ruling given in *Opinion* 73 and substitute therefor the following date and reference : 1868, *Mém. serv. Conn. Crin. viv.* : 1, 38—39 (paragraph 9) ;
- (6) substitute for the entry on the *Official List* relating to the type species of the genus *Rhizocrinus* Sars (M.), 1868, the following amended entry : *Rhizocrinus lofotensis* Sars (M.), 1868, *Mém. serv. Conn. Crin. viv.* : 1, 39 (paragraph 9) ;
- (7) substitute the date “1767” for the date “1766” as the date of publication of *Helix pulligera* Linnaeus, the name of the type species of *Neritina* Lamarck, 1816 (paragraph 10) ;
- (8) correct the authorship and date attributed to the generic name *Leucochilus* by the Ruling given in *Opinion* 115 by substituting “Boettger, [1880]” for “von Martens, 1881” (paragraph 11) ;
- (9) add to the entry on the *Official List* relating to the generic name *Leucochila* von Martens, 1860, the following endorsement, namely : “for use by specialists who are of the opinion that the taxon so named is distinct from *Pupoides* Pfeiffer, 1854” (paragraph 14) ;



- (10) place the under-mentioned generic names on the *Official List of Generic Names in Zoology* :—
- (a) *Pupoides* Pfeiffer (L.G.C.), 1854 (gender : masculine) (type species, by selection by Gude (1914) : *Pupoides nitidulus* Pfeiffer (L.G.C.), 1854) ;
  - (b) *Gastrocopta* Wollaston, 1878 (gender : feminine) (type species, by selection by Pilsbry (1916) : *Pupa acarus* Benson, 1856) (paragraph 14) ;
- (11) place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—
- (a) *nitidulus* Pfeiffer (L.G.C.), 1854, as published in the combination *Pupoides nitidulus* (specific name of type species of *Pupoides* Pfeiffer, 1854) ;
  - (b) *acarus* Benson, 1856, as published in the combination *Pupa acarus* (specific name of type species of *Gastrocopta* Wollaston, 1878) (paragraph 15) ;
  - (c) *armifera* Say, 1821, as published in the combination *Pupa armifera* (paragraph 15) ;
- (12) direct that the suppression under the Plenary Powers by the Ruling given in *Opinion* 115 of the generic name *Leucochilus* Boettger, [1880] (there inadvertently attributed to von Martens and treated as having been published in 1881) is to be interpreted as suppression for the purposes of the Law of Homonymy as well as for those of the Law of Priority (paragraph 16) ;
- (13) place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Leucochilus* Kraatz, [1897] (gender : masculine) (type species, by monotypy : *Leucocelis notaticollis* Kraatz, [1897]) (Class Insecta, Order Coleoptera) (paragraph 17) ;
- (14) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* : *notaticollis* Kraatz, [1897], as published in the combination *Leucocelis notaticollis* (specific name of type species of *Leucochilus* Kraatz, [1897]) (Class Insecta, Order Coleoptera) (paragraph 17) ;
- (15) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Section A of Annexe 2 to the present paper (paragraph 18) ;

- (16) place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the objectively invalid specific names enumerated in Section B of Annexe 2 to the present paper (paragraph 18).

## ANNEXE 1

Proposals as to the entries to be inserted in the "Official List of Generic Names in Zoology" regarding the method by which were determined the type species of certain genera, the names of which were placed on that "List" in the period up to the end of 1936

| Name of genus                     | "Opinion" in which name specified in Col. (1) was placed on the "Official List" | Entry relating to the determination of the type species of the genus specified in Col. 1   |
|-----------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| (1)                               | (2)                                                                             | (3)                                                                                        |
| <i>Antedon</i> Fréminville, 1811  | 73                                                                              | by monotypy                                                                                |
| <i>Bathyrinus</i> Thompson, 1872  | „                                                                               | by monotypy                                                                                |
| <i>Holopus</i> d'Orbigny, 1837    | „                                                                               | by monotypy                                                                                |
| <i>Metacrinus</i> Carpenter, 1882 | „                                                                               | by subsequent selection by Clark (A.H.), 1908, <i>Proc. U.S. nat. Mus.</i> 34 : 527        |
| <i>Argonauta</i> Linnaeus, 1758   | 94                                                                              | by subsequent selection by Children (J.G.), 1824, <i>Quart. J. Sci. Lit. Arts</i> 16 : 252 |
| <i>Buccinum</i> Linnaeus, 1758    | „                                                                               | by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 463                        |
| <i>Dentalium</i> Linnaeus, 1758   | „                                                                               | by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 23                         |

| Name of genus                      | "Opinion" in which name specified in Col. (1) was placed on the "Official List" | Entry relating to the determination of the type species of the genus specified in Col. 1        |
|------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| (1)                                | (2)                                                                             | (3)                                                                                             |
| <i>Helix</i> Linnaeus, 1758        | 94                                                                              | by subsequent selection by de Montfort, 1810, <i>Conch.</i> 2 : 231                             |
| <i>Limax</i> Linnaeus, 1758        | ,,                                                                              | by subsequent selection by Férussac, 1819, <i>Hist. nat. Moll. terrestr. fluviat.</i> 2(1) : 67 |
| <i>Mactra</i> Linnaeus, 1767       | ,,                                                                              | by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 184            |
| <i>Mya</i> Linnaeus, 1758          | ,,                                                                              | by subsequent selection by Children (J.G.), 1822, <i>Quart. J. Sci. Lit. Arts</i> 14 : 85       |
| <i>Ostrea</i> Linnaeus, 1758       | ,,                                                                              | by Linnean tautonymy                                                                            |
| <i>Physa</i> Draparnaud, [1801]    | ,,                                                                              | by subsequent selection by Children (J.G.), 1823, <i>Quart. J. Sci. Lit. Arts</i> 15 : 243      |
| <i>Sepia</i> Linnaeus, 1758        | ,,                                                                              | by Linnean tautonymy                                                                            |
| <i>Sphaerium</i> Scopoli, 1777     | ,,                                                                              | by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 184            |
| <i>Succinea</i> Draparnaud, [1801] | ,,                                                                              | by subsequent selection by Gray (J.E.), 1847, <i>Proc. zool. Soc. Lond.</i> 15 : 171            |
| <i>Teredo</i> Linnaeus, 1758       | ,,                                                                              | by subsequent selection by Children (J.G.), 1822, <i>Quart. J. Sci. Lit. Arts</i> 14 : 82       |

## ANNEXE 2

**Section A :—Proposed addition of twenty-eight generic names to the  
“ Official Index of Rejected and Invalid Generic Names  
in Zoology ”**

1. The under-mentioned junior homonyms of *Anodonta* Lamarck, 1799, placed on the *Official List* in *Opinion 94* :—
  - (a) *Anodonta* (Hope MS) Saunders, 1843, *Ann. Mag. Nat. Hist.* **11** : 66
  - (b) *Anodonta* Herrich-Schaeffer, 1855, *Aussereur. Schmett.* **1** : 78
  - (c) *Anodonta* Rambur, 1858, *Cat. Syst. Lep. Andalusie* : pl. 4
  
2. The under-mentioned Erroneous Subsequent Spellings for *Botryllus* Pallas, 1774, placed on the *Official List* in *Opinion 94* :—
  - (a) *Bothyllus* Hesse, 1864, *Ann. Sci. nat.*, Paris (Zool.) (5) **1** : 347
  - (b) *Botrillus* Oken, 1829, *Isis* (Oken) **1829** : 1114
  - (c) *Botryllis* Porro, 1841, *Note Bibl. Malac.* (3) : 99
  - (d) *Botrylus* Koelliker & Loewig, 1846, *Ann. Sci. nat.* (Zool.) [3] **5** : 236
  
3. *Botryllus* Oken, 1815, *Lehrb. Naturg.* **3**(1) : 82 (a junior homonym of *Botryllus* Pallas, 1774)
  
4. *Dentalius* Forbes, 1841, *Hist. Brit. Starfish* : 252 (an Erroneous Subsequent Spelling for *Dentalium* Linnaeus, 1758, placed on the *Official List* in *Opinion 94*).
  
5. *Diazone* Usov, 1875, *Arch. Naturg.* **41**(1) : 3 (an Erroneous Subsequent Spelling for *Diazona* Savigny, 1816, placed on the *Official List* in *Opinion 94*).
  
6. *Helix* Férussac, 1821, *Hist. nat. gén. partic. Moll. terrestr. fluviat.*, Tabl. Limaçons : 23 (a junior homonym of *Helix* Linnaeus, 1758, placed on the *Official List* in *Opinion 94*).
  
7. *Holothuria* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 657 (suppressed under the Plenary Powers for the purposes of both of the Law of Priority and of the Law of Homonymy in *Opinion 80*).
  
8. *Leucochilus* Boettger, [1880], in Martens, *Conch. Mitt.* **1** : 64 (suppressed under the Plenary Powers for the purposes both of the Law of Priority and of the Law of Homonymy in *Opinion 115*).

9. The under-mentioned junior homonyms of *Limax* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94 :—

- (a) *Limax* Pallas, 1774, *Spec. zool.* (10) : 19 ;
- (b) *Limax* Martyn, 1784, *Univ. Conch.* : 1
- (c) *Limax* Férussac, 1819, *Hist. nat. gén. partic. Moll. terrestr. fluviat.* 2(1) : 50.

10. *Mya* Rondani, 1850, *N. Ann. Sci. nat. Bologna* (3) 2 : 175 (a junior homonym of *Mya* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94).

11. *Neritina* Rafinesque, 1815, *Analyse Nat.* : 144 (a *nomen nudum*).

12. *Physa* Raffray, 1890, *Rev. Ent. franc.* 9 : 118 (a junior homonym of *Physa* Draparnaud, [1801], placed on the *Official List* in *Opinion* 94).

13. *Pupa* Lamarck, 1801, *Syst. Anim. sans Vertèbr.* : 88 (a junior objective synonym of *Cerion* Röding, 1798, placed on the *Official List* in *Opinion* 119).

14. The under-mentioned junior homonyms of *Pyrosoma* Péron, 1804, placed on the *Official List* in *Opinion* 77 :—

- (a) *Pyrosoma* Dahlbom, 1854, *Hym. Eur.* 2 : 96 (a *nomen nudum*) ;
- (b) *Pyrosoma* Smith & Kilborne, 1893, *Bull. U.S. Dep. Agric. Anim. Ind.* (No. 1) : 67.

15. *Rhizocrinus* Sars (M.), 1865, *Forh. Vidensk.-Selsk, Christiania* 1864 : 127 (a *nomen nudum*).

16. *Sphaerium* Charpentier, 1825, *Horae Ent.* : 78 (a junior homonym of *Sphaerium* Scopoli, 1777, placed on the *Official List* in *Opinion* 94).

17. *Spirifera* Murray, 1831, *Edinb. n. Phil. Journ.* 11 : 148 (an Invalid Emendation of *Spirifer* Sowerby, 1816, placed on the *Official List* in *Opinion* 100).

18. *Teredo* Hübner, [1809—1813], *Erste Zutr.* : 6 ; *Zutr. Samml. exot. Schmett.* : 1, pl. [25] (a junior homonym of *Teredo* Linnaeus, 1758, placed on the *Official List* in *Opinion* 94) ;

19. *Vitria* Hall, 1867, *Ann. Rep. Regents Univ. State Mus. N. York* 20 : 42 (an Erroneous Subsequent Spelling for *Vitrina* Draparnaud, [1801], placed on the *Official List* in *Opinion* 119).

20. *Vitrinus* de Montfort, 1810, *Conch.* 2 : 238 (an Invalid Emendation of *Vitrina* Draparnaud, [1801]).

**Section B :—Proposed addition of two specific names to the “ Official Index of Rejected and Invalid Specific names in Zoology ”**

1. *volutata* Röding, 1798, *Mus. Bolten.* (2) : 110, as published in the combination *Oleacina volutata* (a junior synonym of *voluta* Gmelin, [1791], as published in the combination *Bulla voluta*).

2. *lofotensis* Sars (M.), 1865, *Forh. Vidensk.-Selsk. Christiania 1864* : 127, as published in the combination *Rhizocrinus lofotensis* (a *nomen nudum*).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of completing and correcting in the manner proposed the entries relating to the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1123.

**II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE**

**3. Issue of Voting Paper V.P.(O.M.)(56)20 :** On 28th August 1956 a Voting Paper (V.P.(O.M.)(56)20) was issued in which each Member of the Commission was asked (1) to state whether he agreed “ that, in accordance with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 20 of the paper numbered Z.N.(S.) 1123, regarding the names of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and

Chordata, submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended", and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 28th September 1946.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)20 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)20 was as follows :—

(a) *Affirmative Votes had been given by the following twenty (20) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Vokes ; Lemche ; Prantl ; Esaki ; Bradley (J.C.) ; do Amaral ; Sylvester-Bradley ; Boschma ; Key ; Cabrera ; Hankó ; Hemming ; Dymond ; Stoll ; Kühnelt ; Jaczewski ; Mertens ; Bonnet ; Mayr ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, four (4) :*

Riley ; Bodenheimer ; Tortonese ; Hering ;

(d) *Voting Papers not returned, one (1) :*

Miller.

**6. Declaration of Result of Vote :** On 29th September 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)20, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 12th April 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)20.

**8. Note on the gender attributed to the generic name " Leucochilus " Kraatz, [1897], by the Ruling given in the present " Direction " :** On 12th April 1957 Mr. Hemming, as Secretary, executed the following Minute setting out for purposes of record certain earlier decisions in the light of which the gender attributable to the generic name *Leucochilus* Kraatz had been determined by the Ruling given by the Commission in the present case :—

**On the attribution of the masculine gender to the generic name " Leucochilus " Kraatz, [1897] (Class Insecta, Order Coleoptera)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The following note on the attribution of the masculine gender to the generic name *Leucochilus* Kraatz, [1897] (Class Insecta, Order Coleoptera) has been prepared for purposes of record and for the avoidance of any possible misunderstanding at a later date.

2. The word *Leucochilus*, which is of Greek origin, is an adjectival form treated as a noun when the word was employed as a generic name. In form and general character this word differs in no respect from the word *Oxychilus* which, as used as a generic name by Fitzinger



(1833), has been ruled by the International Commission in *Opinion 431*, Ruling (2) (1956, *Ops. Decls. int. Comm. zool. Nomencl.* **14** : 349) to be of the masculine gender. It was for this reason that in the present case the International Commission on Zoological Nomenclature was recommended to attribute the foregoing gender to the generic name *Leucochilus* Kraatz and that by its vote on Voting Paper V.P.(O.M.)(56) 20 the International Commission has now so determined the gender of that generic name.

3. It should be noted, however, that the provisional rules relating to the determination of the gender of generic names adopted by the Fourteenth International Congress of Zoology, Copenhagen, 1953 (1953, *Copenhagen Decisions on Zoological Nomenclature* : 49—51, Decision 84) are not in all respects self-consistent and that by the immediately following Decision (Decision 85) the International Commission was instructed by the above Congress to review the foregoing rules before they were finally incorporated into the *Règles*. One of the respects in which the component portions of the above rules were not in harmony with one another was in respect of generic names consisting of Latinised versions of Greek adjectival forms when having the termination “-chilus”. Accordingly, a note was made on the relevant Commission File (Z.N.(S.) 996) at the time of the adoption of *Opinion 431* (in which, as explained in paragraph 1 above), the Commission gave its determination of the gender to be attributed to the generic name *Oxychilus* that the ambiguity in Copenhagen Decision 84 in relation to the gender attributable to generic names of the *Oxychilus* type is one of those which will require to be dealt with when the review of the provisions of Copenhagen Decision 84 is carried out in accordance with the directions given to the Commission by Decision 85 of the same Congress.

**9. Original References :** The original references for the generic names placed on the *Official List of Generic Names in Zoology* in the period up to the close of 1936 cited in the Ruling given in the present *Direction* are as noted at the time when those names were entered on the foregoing *List*, subject in each case to the clarification, expansion or correction specified in the said Ruling. The original references for the generic and specific names placed, by the Ruling given in the present *Direction*, on the *Official Indexes of Rejected and Invalid Names in Zoology* are as set out respectively in Section A and Section B of the paper reproduced in the first paragraph of the present *Direction*. The original references for generic and specific names placed on the *Official Lists* of names for taxa belonging to those categories by the

Ruling given in the present *Direction* are as set out in paragraphs 14 and 15 of the above-mentioned paper.

10. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

11. The present *Direction* shall be known as *Direction Seventy-Two (72)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

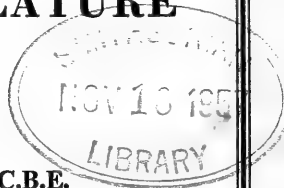
**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission



**VOLUME 1. SECTION E. Part E.12. Pp. 193—214**

## **DIRECTION 73**

Addition to the *Official List of Specific Names in Zoology*  
(a) of the specific names of twenty-five species of the  
Phyla Mollusca, Brachiopoda, Echinodermata and  
Chordata, each of which is the type species of a genus,  
the name of which was placed on the *Official List of  
Generic Names in Zoology* in the period up to the end of  
1936 and (b) of the specific names of three species  
belonging respectively to the Phyla Brachiopoda, Echino-  
dermata and Chordata, each of which is currently  
treated by some or all specialists as a senior subjective  
synonym of the name of such a species

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 73

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---

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(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

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(1st January 1947)

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Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 73

ADDITION TO THE "OFFICIAL LIST OF SPECIFIC NAMES IN ZOOLOGY" (a) OF THE SPECIFIC NAMES OF TWENTY-FIVE SPECIES OF THE PHyla MOLLUSCA, BRACHIOPODA, ECHINODERMATA AND CHORDATA, EACH OF WHICH IS THE TYPE SPECIES OF A GENUS, THE NAME OF WHICH WAS PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936 AND (b) OF THE SPECIFIC NAMES OF THREE SPECIES BELONGING RESPECTIVELY TO THE PHyla, BRACHIOPODA, ECHINODERMATA AND CHORDATA, EACH OF WHICH IS CURRENTLY TREATED BY SOME OR ALL SPECIALISTS AS A SENIOR SUBJECTIVE SYNONYM OF THE NAME OF SUCH A SPECIES

**RULING** :—(1) The under-mentioned specific names of species belonging to the Class Gastropoda, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Ruling given in the *Opinion* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *undatum* Linnaeus, 1758, as published in the combination *Buccinum undatum* (specific name of type species of *Buccinum* Linnaeus, 1758) (*Opinion* 94) (Name No. 1332) ;
- (b) *chinensis* Linnaeus, 1758, as published in the combination *Patella chinensis* (specific name of type species of *Calyptraea* Lamarck, 1799) (*Opinion* 94) (Name No. 1333) ;

- (c) *mercatoria* Linnaeus, 1758, as published in the combination *Voluta mercatoria* (specific name of type species of *Columbella* Lamarck, 1799) (*Opinion* 94) (Name No. 1334) ;
- (d) *fallax* Say, 1825, as published in the combination *Pupa fallax* (specific name of type species of *Leucochila* von Martens, 1860) (*Opinion* 115) (Name No. 1335) ;
- (e) *uva* Linnaeus, 1758, as published in the combination *Turbo uva* (specific name of type species of *Cerion* Röding, 1798) (*Opinion* 119) (Name No. 1336) ;
- (f) *pulligera* Linnaeus, 1767, as published in the combination *Nerita pulligera* (specific name of type species of *Neritina* Lamarck, 1816) (*Opinion* 119) (Name No. 1337) ;
- (g) *voluta* Gmelin, [1791], as published in the combination *Bulla voluta* (specific name of type species of *Oleacina* Röding, 1798) (*Opinion* 119) (Name No. 1338) ;
- (h) *sinuata* Gabb, [1866], as published in the combination *Clavella sinuata* (specific name of type species of *Agasoma* Gabb, [1869]) (*Opinion* 119) (Name No. 1339).

(2) The under-mentioned specific name of a species belonging to the Class Scaphopoda, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1926 by the Ruling giving in *Opinion* 94, is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1340 :—

*elephantinum* Linnaeus, 1758, as published in the combination *Dentalium elephantinum* (specific name of type species of *Dentalium* Linnaeus, 1758).

(3) The under-mentioned specific names of species belonging to the Class Pelecypoda, each of which is the

type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1926 by the Ruling given in the *Opinion* 94, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *truncata* Linnaeus, 1758, as published in the combination *Mya truncata* (specific name of type species of *Mya* Linnaeus, 1758) (Name No. 1341) ;
- (b) *navalis* Linnaeus, 1758, as published in the combination *Teredo navalis* (specific name of type species of *Teredo* Linnaeus, 1758) (Name No. 1342) ;
- (c) *stultorum* Linnaeus, 1758, as published in the combination *Cardium stultorum* (specific name of type species of *Maetra* Linnaeus, 1767) (Name No. 1343).

(4) The under-mentioned specific names of species belonging to the Class Cephalopoda, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Ruling given in the *Opinion* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *argo* Linnaeus, 1758, as published in the combination *Argonauta argo* (specific name of type species of *Argonauta* Linnaeus, 1758) (*Opinion* 94) (Name No. 1344) ;
- (b) *officinalis* Linnaeus, 1758, as published in the combination *Sepia officinalis* (specific name of type species of *Sepia* Linnaeus, 1758) (*Opinion* 94) (Name No. 1345) ;
- (c) *fimbriatus* Sowerby, 1817, as published in the combination *Ammonites fimbriatus* (specific name of type species of *Lytoceras* Suess, 1865) (*Opinion* 130) (Name No. 1346).

(5) The under-mentioned specific name of a species belonging to the Class Holothuroidea, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1924 by the Ruling given in *Opinion* 80, is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1347 :—

*tremula* Linnaeus, 1767, as published in the combination *Holothuria tremula* (specific name of type species of *Holothuria* Linnaeus, 1758).

(6) The under-mentioned specific names of species belonging to the Class Crinoidea, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1922 by the Ruling given in *Opinion* 73, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *gracilis* Thomson, 1872, as published in the combination *Bathycrinus gracilis* (specific name of type species of *Bathycrinus* Thomson, 1872) (Name No. 1348) ;
- (b) *rangii* d'Orbigny, 1837, as published in the combination *Holopus rangii* (specific name of type species of *Holopus* d'Orbigny, 1837) (Name No. 1349) ;
- (c) *wyvillii* Carpenter, 1884, as published in the combination *Metacrinus wyvillii* (specific name of type species of *Metacrinus* Carpenter, 1882) (Name No. 1350) ;
- (d) *lofotensis* Sars (M.), 1868, as published in the combination *Rhizocrinus lofotensis* (specific name of type species of *Rhizocrinus* Sars (M.), 1868) (Name No. 1351).

(7) The under-mentioned specific names of species belonging to the Class Urochorda, each of which is the



type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Ruling given in the *Opinion* cited in each case below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally cited below :—

- (a) *atlanticum* Péron, 1804, as published in the combination *Pyrosoma atlanticum* (specific name of type species of *Pyrosoma* Péron, 1804) (*Opinion* 77) (Name No. 1352) ;
- (b) *lepadiformis* Müller, 1776, as published in the combination *Ascidia lepadiformis* (specific name of type species of *Clavelina* Savigny, 1816) (*Opinion* 94) (Name No. 1353) ;
- (c) *violacea* Savigny, 1816, as published in the combination *Diazona violacea* (specific name of type species of *Diazona* Savigny, 1816) (*Opinion* 94) (Name No. 1354) ;
- (d) *magnilarva* Della Valle, 1881, as published in the combination *Distaplia magnilarva* (specific name of type species of *Distaplia* Della Valle, 1881) (*Opinion* 94) (Name No. 1355).

(8) The under-mentioned specific name of a species belonging to the Class Brachiopoda, which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in 1928 by the Ruling given in *Opinion* 100, is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1356 :—

*typa* Winchell, 1863, as published in the combination *Syringothyris typa* (specific name of type species of *Syringothyris* Winchell, 1863) (for use by those specialists who consider that the nominal species *Syringothyris typa* Winchell, 1863, represents a taxon

specifically distinct from that represented by the older established nominal species *Spirifer carteri* Hall, 1857).

(9) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *bifida* Pennant, 1777, as published in the combination *Asterias bifida* (Class Crinoidea) (Name No. 1357) ;
- (b) *schlosseri* Pallas, 1766, as published in the combination *Alcyonium schlosseri* (Class Urochorda) (Name No. 1358) ;
- (c) *carteri* Hall, 1857, as published in the combination *Spirifer carteri* (Class Brachiopoda) (Name No. 1359).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* has been prepared under a General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that the specific names of the species which are the type species of genera, the names of which had been placed on the *Official List of Generic Names in Zoology* prior to the opening of that Congress should, if the oldest available names for the species concerned, be placed on the *Official List of Specific Names in Zoology* and that in other cases there should be placed on that *List* whatever are currently considered to be the oldest available names for the species concerned. The present, which is the seventh in this series, is concerned with completing the action called for under the foregoing Directive in relation to the specific names of species which are the type species of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata, the names of which were placed on the *Official List of Generic Names in Zoology* up to the end of 1936. The number of names involved is twenty-eight. The

proposals which formed the basis of the decisions taken by the Commission in the present case were submitted by the Secretary in the following paper on 28th August 1956 :—

**Proposed addition to the " Official List of Specific Names in Zoology "**  
**(a) of the specific names of twenty-five species of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata, each of which is the type species of a genus, the name of which was placed on the " Official List of Generic Names in Zoology " in the period up to the end of 1936 and (b) of the specific names of three species of the Phyla Brachiopoda, Echinodermata and Chordata, each of which is currently treated by some or all specialists as a senior subjective synonym of the name of such a species**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The present paper contains the seventh instalment of proposals for giving effect to the General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that in every case where the specific name of the type species of a genus, the name of which had been placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, is the oldest available name for the species concerned, that name shall be placed on the *Official List of Specific Names in Zoology* and that in other cases the specific name currently regarded as the oldest available subjective synonym of that name shall be similarly placed on that *List*. The immediately preceding instalment was concerned with the names of the type species of genera belonging to the Phylum Arthropoda, exclusive of genera belonging to the Class Insecta and to the Order Decapoda of the Class Crustacea (Z.N.(S.) 1018). The paper in question was submitted to the International Commission with Voting Paper V.P.(O.M.)(56)14.<sup>1</sup>

2. The proposals now submitted relate to the type species of genera belonging to the Phyla Mollusca (Classes Gastropoda, Scaphopoda, Pelecypoda and Cephalopoda), Brachiopoda, Echinodermata (Classes Asteroidea, Holothuroidea and Crinoidea) and Chordata (Class Urochorda). The total number of names of genera belonging to the foregoing Phyla placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 amounted to forty-one. These names were placed on the *Official List* by the Rulings given in the

<sup>1</sup> The decision taken by the International Commission on the Voting Paper here referred to has since been embodied in *Direction 67* (1957, *Ops. Decls. int. Comm. zool. Nomencl.* 1(E) : 111—128).

following *Opinions* :—*Opinion* 94 (twenty-two names) ; *Opinion* 119 (six names) ; *Opinion* 73 (five names) ; *Opinion* 100 (two names) ; *Opinions* 77, 80, 115, 121, 129, and 130 (one name each).

3. In ten cases the name of the type species of the genus concerned has already been placed on the *Official List of Specific Names in Zoology*. The names concerned are the following :—

(a) *One name placed on the "Official List" by the Ruling given in "Opinion" 333 :—*

*edulis* Linnaeus, 1758, as published in the combination *Mytilus edulis* (specific name of type species of *Mytilus* Linnaeus, 1758, placed on the *Official List* by the Ruling given in *Opinion* 94) (Class Pelecypoda) (Name No. 286) ;

(b) *Seven names placed on the "Official List" by the Ruling given in "Opinion" 336 :—*

| <i>Specific name of<br/>type species</i>                 | <i>Name of genus of which<br/>species cited in Col. (1)<br/>is type species</i> | <i>Name No.<br/>on<br/>"Official<br/>List"</i> |
|----------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------|
| (1)                                                      | (2)                                                                             | (3)                                            |
| Class Gastropoda                                         |                                                                                 |                                                |
| <i>fontinalis</i> Linnaeus, 1758<br>( <i>Bulla</i> )     | <i>Physa</i> Draparnaud, [1801]<br>( <i>Opinion</i> 94)                         | 355                                            |
| <i>maximus</i> Linnaeus, 1758<br>( <i>Limax</i> )        | <i>Limax</i> Linnaeus, 1758<br>( <i>Opinion</i> 94)                             | 375                                            |
| <i>pellucida</i> Müller (O.F.),<br>1774 ( <i>Helix</i> ) | <i>Vitrina</i> Draparnaud, [1801]<br>( <i>Opinion</i> 119)                      | 388                                            |
| <i>pomatia</i> Linnaeus, 1758<br>( <i>Helix</i> )        | <i>Helix</i> Linnaeus, 1758<br>( <i>Opinion</i> 94)                             | 392                                            |
| <i>putris</i> Linnaeus, 1758<br>( <i>Helix</i> )         | <i>Succinea</i> Draparnaud, [1801]<br>( <i>Opinion</i> 94)                      | 395                                            |
| Class Pelecypoda                                         |                                                                                 |                                                |
| <i>cornea</i> Linnaeus, 1758<br>( <i>Tellina</i> )       | <i>Sphaerium</i> Scopoli, 1777<br>( <i>Opinion</i> 94)                          | 427                                            |
| <i>cygneus</i> Linnaeus, 1758<br>( <i>Mytilus</i> )      | <i>Anodonta</i> Lamarck, 1799<br>( <i>Opinion</i> 94)                           | 429                                            |

(c) One name placed on the "Official List" by the Ruling given in "Opinion" 356:

*edulis* Linnaeus, 1758, as published in the combination *Ostrea edulis* (specific name of type species of *Ostrea* Linnaeus, 1758, placed on the *Official List* by the Ruling given in *Opinion* 94) (Class Pelecypoda) (Name No. 495)

(d) One name placed on the "Official List" by the Ruling given in "Opinion" 419\*:

*striatus* Martin, 1809, as published in the combination *Conchylolithus Anomites (striatus)* (specific name of type species of *Spirifer* Sowerby (J.), 1816, placed on the *Official List* by the Ruling given under the Plenary Powers in *Opinion* 100) (Class Brachiopoda) (Name No. 739)

(Note: In the Ruling given in *Opinion* 100 this name was incorrectly stated to have been published in the combination *Anomia striata*. This slip was corrected in the Ruling given in *Opinion* 419.)

4. In addition, the name for the type species of one other nominal genus belonging to the group here under consideration has been the subject of a decision by the International Commission. This genus is *Luidia* Forbes, 1839 (Class Asteroidea), the name of which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 129. The type species of this genus is the nominal species *Luidia fragilissima* Forbes, 1839, which is currently identified with *Asterias ciliaris* Philippi, 1837. Under the General Directive referred to in paragraph 1 above it is therefore the latter and not the former name which requires to be placed on the *Official List of Specific Names in Zoology*. This action has been taken by the Commission by the Ruling given in *Opinion* 210, under the name *ciliaris* Philippi, 1837 (*Asterias*) was placed on the *Official List* with the Name No. 20.

5. When allowance is made for the action described in paragraphs 3 and 4 above, it is seen that the number of names which now require to be considered is reduced from forty-one to thirty. In three of these cases further action requires to be taken by the Commission and accordingly it is proposed to defer submitting any recommendation in regard to them until the Commission has had an opportunity of considering all aspects of the problems raised. The net number of names which it is proposed that the Commission should deal with on the present occasion is thus reduced to twenty-seven.

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\* This *Opinion* is now in the press. The Ruling given in it is based upon an application submitted by Muir-Wood (H.M.) & Stubblefield (C.J.), 1951, *Bull. zool. Nomencl.* 6: 7-17. [The *Opinion* here referred to was published on 17th September 1956 (*Ops. Decls. int. Comm. zool. Nomencl.* 14: 69-128).]

6. The three names now postponed for further examination are given below, together with a brief explanation of the issue involved :—

(a) Class Gastropoda

(1) *Clausilia* Draparnaud, [1805] (Z.N.(S.) 872)

The name *Clausilia* Draparnaud, [1805], was placed on the *Official List* by the Ruling given in *Opinion* 119. There are unresolved difficulties, both taxonomic and nomenclatorial, in regard to the type species of this genus.

(2) *Tornatellina* Pfeiffer, 1842 (Z.N.(S.) 1147)

The name *Tornatellina* Pfeiffer, 1842, was placed on the *Official List* by the Ruling given in *Opinion* 119. The difficulty in this case arises from the existence of a senior subjective synonym, *Strobilus* Anton, 1839, which was incorrectly left on one side in the above *Opinion* on the ground that it was a junior homonym of *Strobila* Sars, 1835.

(b) Class Urochorda

(3) *Molgula* Forbes, 1848 (Z.N.(S.) 1073)

The name *Molgula* Forbes, 1848, was placed on the *Official List* by the Ruling given in *Opinion* 94. In this case also the difficulty arises from the existence of a senior subjective synonym *Caesira* Fleming, 1822, a name which appears to have been overlooked and more recently to have been ignored.<sup>2</sup>

7. On the present as on previous similar occasions a search of the literature has been undertaken by the Office of the Commission for the purpose of checking and, where necessary, completing the entries made on the *Official List* in the period under review. This investigation has disclosed a number of individual problems which require to be brought to the attention of the International Commission. These problems have been discussed in a paper bearing the Number Z.N.(S.) 1123 which is being submitted to the Commission with Voting Paper V.P.(O.M.)(56)20<sup>3</sup> simultaneously with the present paper.

8. The elucidation of the problems involved in the present group of names has been greatly assisted by the co-operation and advice afforded by a number of specialists in the groups concerned. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they

<sup>2</sup> A decision has since been taken by the Commission in regard to the name *Molgula* and the decision so taken has been embodied in *Direction* 80 (now in the press).

<sup>3</sup> The decision since taken by the Commission on the Voting Paper here referred to has been embodied in *Direction* 72 which is published simultaneously with the present *Direction* as Part E.11 of the present Section of Volume 1.

held at the time when consultations took place and (b) of the Classes on the names of genera of which assistance has been afforded, are the following :—

- L. Bairstow (*British Museum (Natural History), London*) (Class Cephalopoda)
- R. S. Bassler (*Smithsonian Institution, U.S. National Museum, Washington, D.C., U.S.A.*) (Class Crinoidea)
- N. J. Berrill (*McGill University, Montreal, Canada*) (Class Urochorda)
- L. R. Cox (*British Museum (Natural History), London*) (Class Gastropoda)
- Karl Jordan (*British Museum (Natural History), Zoological Museum, Tring, Herts.*) (Classes Brachiopoda, Gastropoda, Urochorda)
- Raymond C. Moore (*University of Kansas, Lawrence, Kansas, U.S.A.*) (Class Crinoidea)
- Miss Helen M. Muir-Wood (*British Museum (Natural History), London*) (Class Brachiopoda)
- R. Winckworth (*London*).

9. The postponement for further consideration of the three cases briefly discussed in paragraph 6 above reduces to twenty-seven the number of cases on which it is possible to submit recommendations at the present time. The investigations carried out show that in twenty-four cases the specific name of the genus concerned is an available name and is currently accepted as the oldest name for the species concerned. Particulars of these names are given in Annexe 1 attached to the present paper. In two cases the specific name of the type species of the genus concerned is also an available name but is currently treated by specialists as a subjective synonym of a name of older date. In these cases, particulars of which are given in Annexe 2, it is the older of the names concerned which in each instance it is recommended should be placed on the *Official List*. In the last case, which is concerned with the name of the type species of *Syringothyris* Winchell, 1863, the specific name (*typha* Winchell, 1863) of the type species is accepted by some specialists as the name for a taxonomically valid species but is regarded by others as a junior (subjective) synonym of another name (*carteri* Hall, 1857). In this case it is recommended that in accordance with the prescribed practice (1) the name *carteri* Hall, as a specific name accepted by all specialists as the oldest available name for the taxon so named, should be placed on the *Official List of Specific Names in Zoology* and (2) that there be placed on the same *Official List* the specific name *typha* Winchell, 1863, as the specific name of the type species of *Syringothyris* Winchell, with an endorsement that it is so placed for use by those specialists who consider that the taxon so named is distinct from that represented by *carteri* Hall, 1857.

10. It is recommended that in accordance with the General Directive referred to in the first paragraph of the present paper the International

Commission on Zoological Nomenclature should place on the *Official List of Specific Names in Zoology* :—

- (1) the twenty-four specific names enumerated in Col. (1) of Annexe 1, each of which is the specific name of the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 ;
- (2) the two specific names enumerated in Col. (1) of Annexe 2, each of which is currently regarded as a senior subjective synonym of the name of the type species of a genus, the name of which was placed on the foregoing *Official List* in the same period ;
- (3) the two specific names enumerated in Col. (1) of Annexe 3, of which the first is the specific name of the type species of a genus, the name of which was placed on the above *Official List* in the foregoing period and the second is a name treated by some specialists as a senior subjective synonym of the above name, the entry in regard to the first of these names to be endorsed in the manner specified in Col. (2) of the said Annexe.

## ANNEXE 1

**Specific names of twenty-four nominal species belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata, each of which is (a) the specific name of the type species of a genus, the name of which was placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936, and (b) is the oldest available name for the species concerned**

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                             | (3)                                                                                       |
| Class GASTROPODA                                                                                                   |                                                                                 |                                                                                           |
| <i>Opinion 94</i>                                                                                                  |                                                                                 |                                                                                           |
| <i>undatum</i> Linnaeus,<br>1758                                                                                   | <i>Buccinum undatum</i>                                                         | <i>Buccinum</i> Linnaeus,<br>1758                                                         |
| <i>chinensis</i> Linnaeus,<br>1758                                                                                 | <i>Patella chinensis</i>                                                        | <i>Calyptreaea</i> Lamarck,<br>1799                                                       |
| <i>mercatoria</i> Linnaeus,<br>1758                                                                                | <i>Voluta mercatoria</i>                                                        | <i>Columbella</i> Lamarck,<br>1799                                                        |



*Specific name  
proposed to be  
placed on the  
" Official List of  
Specific Names in  
Zoology "*

*Combination in  
which name  
in Col. 1 was  
originally published*

*Name of genus of  
which species specified  
in Col. 1 is the  
type species*

(1)

(2)

(3)

*Opinion 115**fallax* Say, 1825*Pupa fallax**Leucochila* von  
Martens, 1860*Opinion 119**uva* Linnaeus, 1758  
*pulligera* Linnaeus,  
1767*Turbo uva*  
*Nerita pulligera**Cerion* Röding, 1798  
*Neritina* Lamarck,  
1816*voluta* Gmelin, [1791]*Bulla voluta**Oleacina* Röding,  
1798*Opinion 121**sinuata* Gabb, [1866]*Clavella sinuata**Agasoma* Gabb,  
[1869]

## Class SCAPHOPODA

*Opinion 94**elephantinum* Linnaeus,  
1758*Dentalium elephantin-*  
*um**Dentalium* Linnaeus,  
1758

## Class PELECYPODA

*Opinion 94**truncata* Linnaeus,  
1758*Mya truncata**Mya* Linnaeus, 1758*navalis* Linnaeus, 1758*Teredo navalis**Teredo* Linnaeus,  
1758*stultorum* Linnaeus,  
1758*Cardium stultorum**Mactra* Linnaeus,  
1767

## Class CEPHALOPODA

*Opinion 94**argo* Linnaeus, 1758*Argonauta argo**Argonauta* Linnaeus,  
1758

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                             | (3)                                                                                       |
| <i>officinalis</i> Linnaeus,<br>1758                                                                               | <i>Sepia officinalis</i>                                                        | <i>Sepia</i> Linnaeus, 1758                                                               |
|                                                                                                                    | <i>Opinion 130</i>                                                              |                                                                                           |
| <i>fimbriatus</i> Sowerby,<br>1817                                                                                 | <i>Ammonites fimbriatus</i>                                                     | <i>Lytoceras</i> Suess, 1865                                                              |
|                                                                                                                    | Class HOLOTHUROIDEA                                                             |                                                                                           |
|                                                                                                                    | <i>Opinion 80</i>                                                               |                                                                                           |
| <i>tremula</i> Linnaeus, 1767                                                                                      | <i>Holothuria tremula</i>                                                       | <i>Holothuria</i> Linnaeus,<br>1767                                                       |
|                                                                                                                    | Class CRINOIDEA                                                                 |                                                                                           |
|                                                                                                                    | <i>Opinion 73</i>                                                               |                                                                                           |
| <i>gracilis</i> Thomson,<br>1872                                                                                   | <i>Bathycrinus gracilis</i>                                                     | <i>Bathycrinus</i><br>Thomson, 1872                                                       |
| <i>rangii</i> d'Orbigny,<br>1837                                                                                   | <i>Holopus rangii</i>                                                           | <i>Holopus</i> d'Orbigny,<br>1837                                                         |
| <i>wywillii</i> Carpenter,<br>1884                                                                                 | <i>Metacrinus wywillii</i>                                                      | <i>Metacrinus</i><br>Carpenter, 1882                                                      |
| <i>lofotensis</i> Sars, 1868                                                                                       | <i>Rhizocrinus lofotensis</i>                                                   | <i>Rhizocrinus</i> Sars, 1868                                                             |
|                                                                                                                    | Class UROCHORDA                                                                 |                                                                                           |
|                                                                                                                    | <i>Opinion 77</i>                                                               |                                                                                           |
| <i>atlanticum</i> Péron, 1804                                                                                      | <i>Pyrosoma atlanticum</i>                                                      | <i>Pyrosoma</i> Péron, 1804                                                               |
|                                                                                                                    | <i>Opinion 94</i>                                                               |                                                                                           |
| <i>lepadiformis</i> Müller,<br>1776                                                                                | <i>Ascidia lepadiformis</i>                                                     | <i>Clavelina</i> Savigny,<br>1816                                                         |

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Combination in which name specified in Col. 1 was originally published</i> | <i>Name of genus of which species specified in Col. 1 is the type species</i> |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                           | (3)                                                                           |
| <i>violacea</i> Savigny, 1816                                                                  | <i>Diazona violacea</i>                                                       | <i>Diazona</i> Savigny, 1816                                                  |
| <i>magnilarva</i> Della Valle, 1881                                                            | <i>Distaplia magnilarva</i>                                                   | <i>Distaplia</i> Della Valle, 1881                                            |

## ANNEXE 2

**Specific names of two species belonging to the Phyla Echinodermata and Chordata respectively, each of which is subjectively identified with a nominal species of later date which is the type species of a genus, the name of which was placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936**

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Remarks (not for inclusion in the entry to be made on the "Official List")</i> |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

## Class CRINOIDEA

*Opinion 73*

|                                                                                     |                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>bifida</i> Pennant, 1777, as published in the combination <i>Asterias bifida</i> | A senior subjective synonym of <i>gorgonia</i> Fréminville, 1811, as published in the combination <i>Antedon gorgonia</i> , the specific name of the type species of <i>Antedon</i> Fréminville, 1811 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*Specific name proposed to be placed on the " Official List of Specific Names in Zoology "*

*Remarks*  
(not for inclusion in the entry to be made on the " Official List ")

Class UROCHORDA

*Opinion 94*

- |                                                                                             |                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>schlosseri</i> Pallas, 1766, as published in the combination <i>Alcyonium schlosseri</i> | A senior subjective synonym of <i>stellatus</i> Gaertner, 1774, as published in the combination <i>Botryllus stellatus</i> , the specific name of the type species of <i>Botryllus</i> Gaertner, 1774 |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

ANNEXE 3

**Specific names of two nominal species belonging to the Phylum Brachiopoda, of which the first is the specific name of the type species of a genus, the name of which was placed on the " Official List of Generic Names in Zoology " in the period up to the end of 1936, and the second is the name of a nominal species of earlier date subjectively identified by some specialists with the first of the species concerned**

*Specific name proposed to be placed on the " Official List of Specific Names in Zoology "*

*Remarks*

Class BRACHIOPODA

*Opinion 100*

- |                                                                                       |                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>typa</i> Winchell, 1863, as published in the combination <i>Syringothyris typa</i> | Specific name of type species of <i>Syringothyris</i> Winchell, 1863 (for use by those specialists who consider that <i>typa</i> Winchell, 1863 and <i>carteri</i> Hall, 1857 are not conspecific) |
| <i>carteri</i> Hall, 1857, as published in the combination <i>Spirifer carteri</i>    | [Considered by some specialists to be a senior subjective synonym of <i>typa</i> Winchell, 1863, the specific name of the type species of <i>Syringothyris</i> Winchell, 1863]                     |

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of the addition to the *Official List of Specific Names in Zoology* of the specific names of the type species of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata, the name of which had been placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered No. Z.N.(S.) 1124.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)21 :** On 28th August 1956 a Voting Paper V.P.(O.M.)(56)21 was issued in which each member of the Commission was asked (1) to state whether he agreed "that, in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress on Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, the names of species belonging to genera of the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata referred to in Sections (1), (2) and (3) of paragraph 10 of the paper bearing the Registered Number Z.N.(S.) 1124, submitted by the Secretary simultaneously with the present Voting Paper [i.e. the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be placed

on the *Official List of Specific Names in Zoology* as there recommended and that the other action in the said paragraph be similarly approved” and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 28th September 1956.

**5. Particulars of the Voting Paper V.P.(O.M.)(56)21 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)21 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-one (21) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Vokes ; Lemche ; Prantl ; Esaki ; Bradley (J.C.) ; do Amaral ; Sylvester-Bradley ; Boschma ; Key ; Cabrera ; Hankó ; Hemming ; Dymond ; Stoll ; Kühnelt ; Jaczewski ; Mertens ; Bonnet ; Mayr ; Miller ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, four (4) :*

Riley ; Bodenheimer ; Tortonese ; Hering ;

(d) *Voting Papers not returned :*

None.

**6. Declaration of Result of Vote :** On 29th September 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (O.M.)(56)21, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 15th April 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)21.

**8. Original References :** The original references for the specific names placed on the *Official List of Specific Names in Zoology* by the Ruling given in the present *Direction* have already been noted in connection with the *Official List of Generic Names in Zoology*, the nominal species bearing the names concerned being either (i) the type species of genera, the names of which have been inscribed on that *List* or (ii) in three cases, nominal species each of which is currently subjectively identified as representing the same taxon as that represented by a nominal species which is the type species of such a genus.

**9.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Seventy-Three (73)* of the International Commission on Zoological Nomenclature.

DONE in London, this Fifteenth day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

**Secretary to the Commission**

**VOLUME 1. SECTION E. Part E.13. Pp. 215—226**

## **DIRECTION 74**

Completion, and in part, correction of certain entries relating to the names of genera of birds made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67* and matters incidental thereto



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 74

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts, England*)

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(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

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Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria," Genova, Italy*) (16th December 1954)

## DIRECTION 74

### COMPLETION, AND IN PART, CORRECTION OF CERTAIN ENTRIES RELATING TO THE NAMES OF GENERA OF BIRDS MADE ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" BY THE RULING GIVEN IN "OPINION" 67 AND MATTERS INCIDENTAL THERETO

**RULING** :—(1) The incorrect statement that the nominal species *Struthio camelus* Linnaeus, 1758, became the type species of the genus *Struthio* Linnaeus, 1758, by Linnean tautonymy (i.e. under Rule (d) in Article 30 as interpreted by *Opinion* 16) entered on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67 is hereby deleted and the following revised statement is hereby inserted in its place :—"type species, by selection by Gray (G.R.) (1840)".

(2) It is hereby directed that the entries on the *Official List of Specific Names in Zoology* in regard to the under-mentioned names entered thereon by the Rulings given in the *Opinions* severally specified below be completed by the addition of the endorsements shown in each case below :—

- (a) the endorsement "specific name of type species of *Neophron* Savigny, 1809" to be added to the entry relating to the specific name *percnopterus* (emend. of *perenopterus*) Linnaeus, 1758, as published in the combination *Vultur perenopterus*, made on the above *Official List* by the Ruling given in *Opinion* 411 ;

- (b) the endorsement “ specific name of type species of *Struthio* Linnaeus, 1758 ” to be added to the entry relating to the specific name *camelus* Linnaeus, 1758, as published in the combination *Struthio camelus*, made on the above *Official List* by the Ruling given in *Opinion* 413.

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The purpose of the present *Direction* is to complete and, in part, correct certain entries relating to the names of genera of birds made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67 and matters incidental thereto. The proposals on which the decisions embodied in the present *Direction* were based were submitted to the International Commission on Zoological Nomenclature by the Secretary on 10th October 1956 in the following paper :—

**Proposals for completing, and in part, correcting the entries relating to the names of certain genera of birds made on the “ Official List of Generic Names in Zoology ” by the Ruling given in “ Opinion ” 67**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present note is to bring to the attention of the International Commission on Zoological Nomenclature, and to submit proposals regarding, certain matters affecting the entries on the *Official List of Generic Names in Zoology* of the names of four genera of birds made in 1916 by the Ruling given in *Opinion* 67. I must explain that through an oversight, first, on the part of the applicants concerned and, second, on that of this Office four specific names which are either the specific names of the type species of the genera, the names of which were placed on the *Official List of Generic Names in Zoology* by the

Ruling given in the foregoing *Opinion* or are senior subjective synonyms of such names, have been placed on the *Official List of Specific Names in Zoology* by Rulings given in certain recently published *Opinions* without mention being made of the connection—which was not then recognised—of those specific names with the corresponding generic names placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67*. This lack of co-ordination—which is regretted—has now come to light on the completion of the survey of the entries on the foregoing *Official List* of the names of genera of birds made in the period up to the opening in Paris in 1948 of the Thirteenth International Congress of Zoology undertaken in accordance with a General Directive issued to the International Commission by that Congress relating to the placing on the then-newly established *Official List of Specific Names in Zoology* of the specific names of the type species of genera, the names of which had already by that time been placed on the *Official List of Generic Names in Zoology*.

2. The *Opinions* referred to above and the specific names involved are the following :—

- (1) *Opinion 407* : In this *Opinion* the specific name *flava* Vieillot, 1817, as published in the combination *Campephaga flava*, was placed on the *Official List of Specific Names in Zoology* with the Name Number 709. The species so named is currently identified with *Campephaga nigra* Vieillot, 1817, the nominal species which is the type species of *Campephaga* Vieillot, 1816. The generic name *Campephaga* Vieillot was placed on the *Official List of Generic Names in Zoology* with the Name Number 32 by the Ruling given in *Opinion 67*.
- (2) *Opinion 410* : In this *Opinion* the specific name *harmonicus* Latham, 1801, as published in the combination *Turdus harmonicus*, was placed on the *Official List of Specific Names in Zoology* with the Name Number 718. The species so named is currently identified with *Colluricincla cinerea* Vigors & Horsfield, 1826, the type species of the genus *Colluricincla* Vigors & Horsfield, 1826. The generic name *Colluricincla* Vigors & Horsfield was placed on the *Official List of Generic Names in Zoology* with the Name Number 46 by the Ruling given in *Opinion 67*.
- (3) *Opinion 411* : In this *Opinion* the specific name *perenopterus* Linnaeus, 1758, as published in the combination *Vultur perenopterus*, was emended to *percnopterus* and the name so amended was placed on the *Official List of Specific Names in Zoology* with the Name Number 722. The species so named is the type species of the genus *Neophron* Savigny,

1809. The generic name *Neophron* Savigny was placed on the *Official List of Generic Names in Zoology* with the Name Number 72 by the Ruling given in *Opinion 67*.

- (4) *Opinion 413* : In this *Opinion* a Restricted Locality was specified for the nominal species *Struthio camelus* Linnaeus, 1758, and the specific name *camelus* Linnaeus, 1758, as published in the foregoing combination and as so defined was placed on the *Official List of Specific Names in Zoology* with the Name Number 726. The foregoing nominal species is the type species of the genus *Struthio* Linnaeus, 1758, the name of which was placed on the *Official List of Generic Names in Zoology* with the Name Number 102 by the Ruling given in *Opinion 67*.

3. If instead of being dealt with independently in the *Opinions* cited above the specific names concerned had been examined in the first instance in the course of the survey of Rulings given in *Opinions* rendered before the Paris Congress of 1948 undertaken in compliance with the General Directive issued to the Commission by that Congress, the position which would have been so established would have been as follows :—

- (a) In the case of the nominal genera *Campephaga* Vieillot, 1816, and *Colluricincla* Vigors & Horsfield, 1826, the nominal species which are the respective type species are in each case nominal species which are currently subjectively identified with nominal species of older date. Thus, as shown in paragraph 3(1) above, the nominal species *Campephaga nigra* Vieillot, 1817, the type species of *Campephaga* Vieillot, 1816, is currently identified with *Campephaga flava* Vieillot, 1817 (a nominal species established on the same date in the same work which is currently accepted by specialists as having been given precedence over *Campephaga nigra* Vieillot under the First Reviser provision in the *Règles*). Similarly, as explained in paragraph 2(2) above, the nominal species *Colluricincla cinerea* Vigors & Horsfield, 1826, is currently identified with the nominal species *Turdus harmonicus* Latham, 1801. Accordingly, in these two cases the specific names of the type species of the genera concerned would not have been placed on the *Official List of Specific Names in Zoology*, the names which would have been so placed being the names (*flava* Vieillot, 1817 ; *harmonicus* Latham, 1801) which are the senior subjective synonyms of the specific names of the type species concerned. As noted in paragraph 2(1) and 2(2) above, this is in fact the action which was taken, though for other reasons, in the Rulings given in *Opinion 407* and *410* respectively. Thus, as regards these two names no action is

now required by way of supplement to that taken in the *Opinions* cited above beyond placing on record—as is here done—that the names in question are currently regarded as senior subjective synonyms of the specific names of the species which are respectively the type species of the two nominal genera discussed above.

- (b) In the case of the nominal genera *Neophron* Savigny, 1809, and *Struthio* Linnaeus, 1758, the nominal species which are the respective type species are the oldest-established nominal species for the taxa concerned. Accordingly when in *Opinion* 411 the specific name *percnopterus* (emend. of *perenopterus*) Linnaeus, 1758, as published in the combination *Vultur perenopterus*, was placed on the *Official List of Specific Names in Zoology*, the entry so made should have borne in round brackets (parentheses) the endorsement “specific name of type species of *Neophron* Savigny, 1809”. Similarly, when in *Opinion* 413 the specific name *camelus* Linnaeus, 1758, as published in the combination *Struthio camelus*, was placed on the foregoing *Official List*, the entry so made should have borne the endorsement “specific name of type species of *Struthio* Linnaeus, 1758”.

4. It is necessary that the foregoing omissions should now be made good and a recommendation to this end is submitted in paragraph 6 below. There is, however, one further aspect of the entries on the *Official List of Generic Names in Zoology* made prior to the opening of the Thirteenth International Congress of Zoology, Paris, 1948, which it is necessary to examine under another General Directive issued by that Congress. This is the question whether, when during the foregoing period generic names were placed on the above *Official List*, the entries so made contained full and accurate particulars as to the way in which the type species of the genera concerned had been determined under Article 30 of the *Règles*. This matter has been investigated by the Office of the Commission and it has been found that in the case of the first three of the generic names concerned (*Campephaga* Vieillot, 1816; *Colluricincla* Vigors & Horsfield, 1826; *Vultur* Savigny, 1809) the type species was determined by monotypy under Rule (c) in Article 30, as was correctly stated in each case in *Opinion* 67. No further action requires therefore to be taken as regards any of these names. In the case of the fourth name (*Struthio* Linnaeus, 1758) the entry in regard to the foregoing matter made by the Ruling given in *Opinion* 67 has, however, been found to be incorrect. This question is discussed in the immediately following paragraph.

5. The nominal genus *Struthio* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 155) was established with four nominal species, of which the first was *Struthio camelus*. No type species was designated (Rule (a) in

Article 30) or indicated (Rules (b), (c) and (d) in the foregoing Article) by Linnaeus. Further, reference to the original description shows that in the case of none of the four included nominal species did the synonymy given by Linnaeus contain a pre-1758 univocal species name consisting of the word "Struthio". Accordingly, the special extension of the principle of tautonymy incorporated into the *Règles* by the Paris Congress (1950, *Bull. zool. Nomencl.* 4 : 154—155) when it codified the Ruling given by the Commission in its *Opinion* 16 (1910, *Ops. Decls. int. Comm. zool. Nomencl.* 1(A) : 255—304) is not applicable to the name *Struthio* Linnaeus, 1758. In these circumstances the determination of the type species of this genus is governed by Rule (g) in Article 30 (type species, by subsequent selection). The first author so to select a type species for this genus was Gray (G.R.) who in 1840 (*List Genera Birds* : 163) so selected *Struthio camelus* Linnaeus. When we turn, however, to *Opinion* 67 (1916, *Smithson. Publ.* 2409 : 182) (the *Opinion* in which the name *Struthio* Linnaeus was placed on the *Official List*) we find that, while the type species of this genus was correctly entered as *Struthio camelus* Linnaeus, 1758, it was incorrectly stated that this species became the type species under the provisions of the Ruling given in *Opinion* 16 ("Tt., *Opinion* 16"). This error needs now to be corrected.

6. In the light of the considerations set forth in the present note the following recommendations are submitted for the consideration of the International Commission on Zoological Nomenclature, namely that it should :—

- (1) delete from the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Struthio* Linnaeus, 1758, made by the Ruling given in *Opinion* 67 the incorrect statement that the nominal species *Struthio camelus* Linnaeus, 1758, became the type species of the above genus by tautonymy through *Opinion* 16 and should insert in its place an entry stating that the above species became the type species by selection by Gray (G.R.) (1840) under Rule (g) in Article 30 ;
- (2) endorse as follows the entries on the *Official List of Specific Names in Zoology* made in respect of the under-mentioned specific names by the Rulings given in the *Opinions* cited below against the names concerned :—
  - (a) the endorsement " specific name of type species of *Neophron* Savigny, 1809 " to be added to the entry relating to the specific name *percnopterus* (emend. of *perenopterus*) Linnaeus, 1758, as published in the combination *Vultur*



*perenopterus*, made on the above *Official List* by the Ruling given in *Opinion* 411 ;

- (b) the endorsement “ specific name of type species of *Struthio* Linnaeus, 1758 ” to be added to the entry relating to the specific name *camelus* Linnaeus, 1758, as published in the combination *Struthio camelus*, made on the above *Official List* by the Ruling given in *Opinion* 413.

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of the completion, and in part, correction of certain entries relating to the names of genera of birds made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67 was allotted the Registered Number Z.N.(S.) 1168.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)24 :** On 10th October 1956 a Voting Paper (V.P.(O.M.)(56)24) was issued in which each Member of the Commission was asked to state whether he agreed that “ in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, the entries already made on the *Official List of Specific Names in Zoology* relating to the names of certain species belonging to the Class Aves which are either the type species of genera, the names of which were placed on the *Official List of Generic Names in Zoology* in the foregoing period, or which are subjectively identified with such nominal species, be in the first place corrected and in the second place endorsed as recommended in Points (1) and (2) in paragraph 6 of the paper

bearing the Registered Number Z.N.(S.) 1168 [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] submitted simultaneously with the present Voting Paper.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 10th November 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)24 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(56)24 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Vokes ; Sylvester-Bradley ; Tortonese ;  
Hering ; do Amaral ; Esaki ; Stoll ; Lemche ; Mayr ;  
Prantl ; Riley ; Boschma ; Mertens ; Key ; Jaczewski ;  
Dymond ; Cabrera ; Kühnelt ; Miller ; Bonnet ;  
Hemming ; Bradley (J.C.) ;

(b) *Negative Votes :*

None ;

(c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

(d) *On leave of absence, one (1) :*

Bodenheimer ;

(e) *Voting Papers not returned* :

None.

**6. Declaration of Result of Vote :** On 12th November 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(56)24 signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 17th April 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(56)24.

**8. Reference for a Type Selection :** The following is the reference for the type selection specified in the Ruling given in the present *Direction* :—

For *Struthio* Linnaeus, 1758 : Gray (G.R.), 1840, *List Genera Birds* : 163

**9.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Seventy-Four (74)* of the International Commission on Zoological Nomenclature.

DONE in London, this Seventeenth day of April, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.14. Pp. 227—264**

## **DIRECTION 76**

Completion and in certain cases correction of entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes and Annelida, made on the *Official List of Generic Names in Zoology* by Rulings given in *Opinions* rendered in the period up to the end of 1936

**LONDON :**

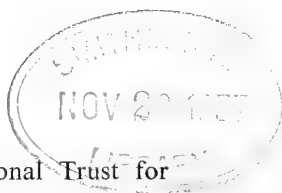
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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 76

### A. The Officers of the Commission

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*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

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Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

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Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

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Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria" Genova, Italy*) (16th December 1954)

## DIRECTION 76

COMPLETION AND IN CERTAIN CASES CORRECTION  
OF ENTRIES RELATING TO THE NAMES OF GENERA  
BELONGING TO THE PHyla PROTOZOA,  
COELENTERATA, PLATYHELMINTHES,  
NEMATHELMINTHES AND ANNELIDA MADE  
ON THE "OFFICIAL LIST OF GENERIC NAMES  
IN ZOOLOGY" BY RULINGS GIVEN IN  
"OPINIONS" RENDERED IN THE PERIOD  
UP TO THE END OF 1936

**RULING** :—(1) It is hereby directed that the nominal species *Ascaris lumbricoides* Linnaeus, 1758 (Class Nematoda) be accepted as having been validly selected as the type species of the genus *Ascaris* Linnaeus, 1758, by Stiles and Hassall (1905) and a statement that the above species was so selected by those authors is to be inserted in the entry relating to the foregoing generic name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 66.

(2) The entry relating to the generic name *Physalia* Lamarck, 1801 (Class Hydrozoa) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 80 is hereby completed by the insertion of the following additional particulars : (a) The type species of this genus was determined by monotypy under Rule (c) in Article 30 of the *Règles*, as interpreted by *Declaration* 26<sup>1</sup> ; (b) Under the provisions of *Declaration* 21<sup>2</sup>, the type species so "indicated" is to be cited under the name *Holothuria physalis* Linnaeus, 1758, that being the oldest objectively available name for the nominal species *Physalia pelagica* Lamarck, 1801, cited by Lamarck when he introduced the generic name *Physalia*.

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<sup>1</sup> *Declaration* 26 was published on 14th August 1956 (*Ops. Decls. int. Comm. zool. Nomencl.* 13 : xxxvii—1).

<sup>2</sup> *Declaration* 21 was published on 19th June 1956 (*Ops. Decls. int. Comm. zool. Nomencl.* 12 : i—viii).

(3) The name *Hirudo ceylanica* Blainville, [June] 1827, is hereby substituted for the name *Sanguisuga zeylanica* Moquin-Tandon, [July] 1827, as the name to be cited as the name of the type species of the nominal genus *Haemadipsa* Tennant, 1861 (Class Hirudinea), in the entry relating to that generic name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 104.

(4) The date "1836" attributed to the generic name *Gnathostoma* Owen (Class Nematoda) in the entry relating to that name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 66 is hereby deleted and the date "[1837]" is hereby inserted in its place.

(5) The date "1845" attributed to the generic name *Dicrocoelium* Dujardin (Class Trematoda) in the entry relating to that name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 84 is hereby deleted and the date "[1844]" is hereby inserted in its place.

(6) It is hereby directed that in any *Opinion* or *Direction* rendered subsequent to the present *Direction* in which reference is made to the nominal species *Amoeba rotatoria* Mayer (A.F.J.C.), 1843 (Class Mastigophora), the notation "[July]" be inserted before the date "1843".

(7) The attribution "Stiles & Hassall, 1893" as the authorship and date properly applicable to the generic name *Stilesia* (Class Cestoda) is hereby substituted for the attribution "Railliet, 1893" erroneously given for the foregoing generic name at the time when it was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 77.

(8) It is hereby directed that the specific name *globipunctata* Rivolta, as published in the combination



*Taenia globi punctata* [sic], the specific name of the type species of the genus *Stilesia* Stiles & Hassall, 1893, is to be treated as having been published at Pisa in 1874 on page 3 in a paper by Rivolta entitled "Sopra alcune specie di Tenie delle pecore e sopra speciali cellule oviformi dei villi del cane e del gatto" and the foregoing is the reference to be inserted for the above name in the entry relating to the generic name *Stilesia* Stiles & Hassall, 1893, made on the *Official List of Generic Names in Zoology* by the Ruling given in the *Opinion* specified in (7) above.

(9) The entry on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion* 104 in relation to the generic name *Sarcocystis* Lankester, 1880 (Class Nematoda) is hereby completed by the insertion of the following amplified particulars as to the nominal species to be cited as the type species of the foregoing genus and as to the manner in which under Article 30 of the *Règles* that nominal species became the type species: "type species by monotypy through *Declaration* 21: *Synchytrium miescherianum* Kühn (J.), 1865, a nominal species having the oldest objectively available name for the nominal species *Sarcocystis miescheri* Lankester, 1880, the nominal species cited by Lankester when he introduced the generic name *Sarcocystis*".

(10) It is hereby directed that in the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 66 in relation to the generic name *Ancylostoma* Dubini, 1843 (Class Nematoda) a notation be inserted showing that the above is an Emendation of the Invalid Original Spelling *Agchylostoma*<sup>3</sup>.

(11) In the case of the name of the nominal genus *Trichostrongylus* Looss, 1905 (Class Nematoda) the entry made on the *Official List of Generic Names in Zoology*

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<sup>3</sup> The Invalid Original Spelling *Agchylostoma* Dubini, 1843, has been placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* by Ruling (14)(i) of the present *Direction*.

by the Ruling given in *Opinion 66* is hereby completed by the insertion of a statement that the type species of the genus so named was determined "by original designation" under Rule (a) in Article 30 of the *Règles*.

(12) The entry relating to each of the under-mentioned generic names made on the *Official List of Generic Names in Zoology* by the Rulings given in the *Opinions* cited below against the names concerned is hereby completed by the insertion of a statement that the type species of the genus concerned was determined "by monotypy" under Rule (c) in Article 30 of the *Règles* :—

**(i) Phylum Platyhelminthes**

- (a) *Gastrodiscus* Cobbold, 1877 (*Opinion 84*) ;
- (b) *Heterophyes* Cobbold, 1866 (*Opinion 84*) ;

**(ii) Phylum Nemathelminthes**

- (c) *Ancylostoma* Dubini, 1843 (*Opinion 66*)<sup>4</sup> ;
- (d) *Gnathostoma* Owen, [1837] (*Opinion 66*)<sup>5</sup> ;
- (e) *Necator* Stiles, 1903 (*Opinion 66*)<sup>6</sup> ;
- (f) *Strongyloides* Grassi, 1879 (*Opinion 66*).

(13) The entry relating to the name of the nominal genus *Gordius* Linnaeus, 1758 (Class Nematomorpha) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 66* is hereby completed

<sup>4</sup> For a Ruling regarding the spelling to be accepted for this generic name see Ruling (10) of the present *Direction*.

<sup>5</sup> For the attribution of the date "[1837]" to the generic name *Gnathostoma* Owen see Ruling (4) of the present *Direction*.

<sup>6</sup> The generic name *Necator* Stiles, 1903, was later found to be invalid as a junior homonym of *Necator* Sclater & Saunders, 1896 (an Invalid Emendation of *Nicator* Finsch & Hartlaub, 1870) (Class Aves). This defect was remedied by the Ruling given by the Commission in *Opinion 201* (1954, *Ops. Decls. int. Comm. zool. Nomencl.* 3 : 267—274) in which the name *Necator* Sclater & Saunders was suppressed under the Plenary Powers, the name *Necator* Stiles was validated, and the entry relating to it on the *Official List of Generic Names in Zoology* was confirmed.

by the insertion of a statement that the type species of the genus so named was determined "by Linnean tautonymy".

(14) The entry relating to each of the under-mentioned generic names made on the *Official List of Generic Names in Zoology* by the Rulings given in the *Opinions* cited below against the names concerned is hereby completed by the insertion of a statement that the type species of the genus in question was determined "by selection" by the author and on the date there specified under Rule (g) in Article 30 :—

**(i) Phylum Protozoa**

- (a) *Volvox* Linnaeus, 1758 (*Opinion* 75) : by selection by Apstein (1915) ;
- (b) *Bursaria* Müller (O.F.), 1774 (*Opinion* 104) : by selection by Apstein (1915) ;

**(ii) Phylum Platyhelminthes**

- (c) *Hemiurus* Rudolphi, 1809 (*Opinion* 77) : by selection by Stiles & Hassall (1898) ;
- (d) *Dicrocoelium* Dujardin, [1844]<sup>8</sup> (*Opinion* 84) : by selection by Stiles & Hassall (1898) ;
- (e) *Fasciola* Linnaeus, 1758 (*Opinion* 84) : by selection by Stiles & Hassall (1898) ;
- (f) *Davainea* Blanchard & Railliet, 1891 (*Opinion* 84) : by selection by Stiles & Hassall (1896) ;
- (g) *Dipylidium* Leuckart, 1863 (*Opinion* 84) : by selection by Stiles & Hassall (1896) ;
- (h) *Ligula* Bloch, 1782 (*Opinion* 104) : by selection by Braun (1900).

<sup>7</sup> For a definition of the expression "Linnean tautonymy" see *Declaration* 29 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 14 : xxv—xxxii).

<sup>8</sup> For the attribution of the date "[1844]" to the generic name *Dicrocoelium* Dujardin see Ruling (5) of the present *Direction*.

**(iii) Phylum Nematelminthes**

- (i) *Paragordius* Camerano, 1897 (*Opinion* 66) : by selection by Stiles & Hassall (1905) ;
- (j) *Gigantorhynchus* Hamann, 1892 (*Opinion* 84) : by selection by Stiles & Hassall (1905) ;
- (k) *Filaria* Müller (O.F.), 1787 (*Opinion* 104) : by selection by Stiles & Hassall (1905).

**(iv) Phylum Annelida**

- (l) *Hirudo* Linnaeus, 1758 (*Opinion* 75) : by selection by Apstein (1915).

(15) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name Numbers severally specified below :—

- (i) *Agchylostoma* Dubini, 1843 (an Invalid Original Spelling for *Ancylostoma*) (Name No. 997) ;
- (ii) the under-mentioned Erroneous Subsequent Spellings for *Ancylostoma* (emend. of *Agchylostoma*) Dubini, 1843 :—
  - (a) *Anchylostamum* Moehlau, 1897 (Name No. 998) ;
  - (b) *Anchylostoma* Pruner, 1847 (Name No. 999) ;
  - (c) *Anchylostomos* Wucherer, 1868 (Name No. 1000) ;
  - (d) *Anchylostomum* Diesing, 1851 (Name No. 1001) ;
  - (e) *Ancylostomom* Molin, 1861 (Name No. 1002) ;
  - (f) *Ancylostomum* Diesing, 1851 (Name No. 1003) ;
  - (g) *Ancylostormum* Schifone, 1908 (Name No. 1004) ;

- (h) *Ankylostoma* Lutz, 1885 (Name No. 1005) ;
- (i) *Ankylostomum* Bugnion, 1881 (Name No. 1006) ;
- (iii) *Arcella* Ehrenberg, 1838 (a junior homonym of *Arcella* Ehrenberg, 1830) (Name No. 1007) ;
- (iv) *Cyclosiphon* Ehrenberg, 1856, as suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy by the Ruling given in *Opinion* 127 (Name No. 1008) ;
- (v) the under-mentioned Erroneous Spellings for *Davainea* Blanchard & Railliet, 1891 :—
  - (a) *Davaenaea* Cohn, 1900 (Name No. 1009) ;
  - (b) *Davaenea* Cohn, 1899 (Name No. 1010) ;
  - (c) *Davainaea* Diamare, 1893 (Name No. 1011) ;
  - (d) *Davainia* Cohn, 1899 (Name No. 1012) ;
- (vi) *Enchytreus* Udekem, 1854 (an Erroneous Subsequent Spelling for *Enchytraeus* Henle, 1837) (Name No. 1013) ;
- (vii) the under-mentioned junior homonyms of *Fasciola* Linnaeus, 1758 :—
  - (a) *Fasciola* Linnaeus, 1761 (Name No. 1014) ;
  - (b) *Fasciola* Müller (O.F.), 1774 (Name No. 1015) ;
  - (c) *Fasciola* Goeze, 1782 (Name No. 1016) ;
- (viii) *Filaria* Rudolphi, 1809 (an Erroneous Subsequent Spelling for *Filaria* Müller (O.F.), 1787) (Name No. 1017) ;
- (ix) the under-mentioned Erroneous Subsequent Spellings for *Gastrodiscus* Cobbold, 1877 :—
  - (a) *Gastrodiseus* Kowalewski, 1899 (Name No. 1018) ;

- (b) *Gastrodiskus* Schneidemuehl, 1896 (Name No. 1019) ;
- (x) *Gigantorhynchus* Weinberg & Romanowitsch, 1908 (an Erroneous Subsequent Spelling for *Gigantorhynchus* Hamann, 1892) (Name No. 1020) ;
- (xi) the under-mentioned Erroneous Spellings for *Gnathostoma* Owen, [1837]<sup>9</sup> :—
- (a) *Gnathosoma* Kreft, 1871 (Name No. 1021) ;
- (b) *Gnathostome* Ward, 1903 (Name No. 1022) ;
- (c) *Gnathostomum* Blanchard, 1896 (Name No. 1023) ;
- (xii) *Gordius* Slabber, [1769—1778] (a junior homonym of *Gordius* Linnaeus, 1758) (Name No. 1024) ;
- (xiii) *Gynaecophorus* Diesing, 1858 (a junior objective synonym of *Schistosoma* Weinland, 1858) (Name No. 1025) ;
- (xiv) *Hemiurus* Gervais, 1855 (a junior homonym of *Hemiurus* Rudolphi, 1809) (Name No. 1026) ;
- (xv) *Hirudo* Müller (O.F.), 1788 (a junior homonym of *Hirudo* Linnaeus, 1758) (Name No. 1027) ;
- (xvi) *Laverania* Theobald, 1902 (a junior homonym of *Laverania* Feletti & Grassi, 1889) (Name No. 1028) ;
- (xvii) *Ligula* Montagu, 1808 (a junior homonym of *Ligula* Bloch, 1782) (Name No. 1029) ;
- (xviii) *Lithostrotium* Agassiz, 1846 (an Invalid Emendation of *Lithostrotion* Fleming, 1828) (Name No. 1030) ;

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<sup>9</sup> See Footnote 5.

- (xix) the under-mentioned Erroneous Subsequent Spellings for *Moniezia* Blanchard, 1891 :—
- (a) *Monietia* Diamare, 1900 (Name No. 1031) ;
- (b) *Monieza* Smith, 1908 (Name No. 1032) ;
- (xx) *Physalia* Langerhans, 1884 (a junior homonym of *Physalia* Lamarck, 1801) (Name No. 1033) ;
- (xxi) *Physalis* Lamarck, 1816 (an Invalid Emendation of *Physalia* Lamarck, 1801) (Name No. 1034) ;
- (xxii) the under-mentioned junior homonyms of *Schistosoma* Weinland, 1858 :—
- (a) *Schistosoma* Brady, 1877 (Name No. 1035);
- (b) *Schistosoma* Hansen, 1916 (Name No. 1036) ;
- (xxiii) *Schistosomum* Laveran & Blanchard, 1895 (an Invalid Emendation of *Schistosoma* Weinland, 1858) (Name No. 1037) ;
- (xxiv) *Sclerostoma* Rudolphi, 1809 (a junior objective synonym of *Strongylus* Müller (O.F.), 1780) (Name No. 1038) ;
- (xxv) *Strongylus* Herbst, 1792 (a junior homonym of *Strongylus* Müller (O.F.), 1780) (Name No. 1039) ;
- (xxvi) the under-mentioned junior homonyms of *Taenia* Linnaeus, 1758 :—
- (a) *Taenia* Pallas, 1766 (Name No. 1040) ;
- (b) *Taenia* Walker, 1866 (Name No. 1041) ;
- (xxvii) *Thecosoma* Moquin-Tandon, 1860 (a junior objective synonym of *Schistosoma* Weinland, 1858) (Name No. 1042) ;
- (xxviii) *Thysanosomum* Galli-Valerio, 1897 (an Invalid Emendation of *Thysanosoma* Diesing, 1835) (Name No. 1043).

(16) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *aegyptiaca* Cobbold, 1866, as published in the combination *Heterophyes aegyptiaca* (a junior objective synonym of *heterophyes* Siebold, [1852], as published in the combination *Distomum heterophyes*) (Name No. 463) ;
- (b) *lanceolata* Rudolphi, 1803, as published in the combination *Fasciola lanceolata* (a junior primary homonym of *lanceolata* Schrank, 1790, as published in the combination *Fasciola lanceolata*) (Name No. 464) ;
- (c) *miescheri* Lankester, 1882, as published in the combination *Sarcocystis miescheri* (a junior objective synonym of *miescherianum* Kühn, 1865, as published in the combination *Synchytrium miescherianum*) (Name No. 465) ;
- (d) *pelagica* Lamarck, 1801, as published in the combination *Physalia pelagica* (a junior objective synonym of *physalis* Linnaeus, 1758, as published in the combination *Holothuria physalis*) (Name No. 466) ;
- (e) *trachealis* Siebold, 1836, as published in the combination *Syngamus trachealis* (a junior objective synonym of *trachea* Montagu, 1811, as published in the combination *Fasciola trachea*) (Name No. 467) ;
- (f) *zeylanica* Moquin-Tandon, [July] 1827, as published in the combination *Sanguisuga zeylanica* (a junior objective synonym of *ceylanica* Blainville, [June] 1827, as published in the combination *Hirudo ceylanica*) (Name No. 468).



# I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* contains decisions taken by the International Commission on Zoological Nomenclature for the purpose of completing and in certain cases correcting entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes and Annelida made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, this action being a necessary preliminary to the publication of the *Official List* in book-form. The proposals upon which the decisions taken in the present case were based were submitted to the International Commission by the Secretary on 16th November 1956 in the following paper :—

**Proposed completion and correction of certain entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes and Annelida made on the “ Official List of Generic Names in Zoology ” by Rulings given in “ Opinions ” rendered in the period up to the end of 1936**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper contains particulars of certain omissions and errors in the entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes and Annelida made in the *Official List of Generic Names in Zoology* in the period up to the end of 1936. The various cases which it is necessary now to bring to the attention of the International Commission are set out as briefly as possible in the immediately following paragraphs. The action which it is recommended that the International Commission should now take is summarised in the concluding paragraph (paragraph 17).

2. The elucidation of the problems involved in this group of names has been greatly assisted by the co-operation and advice afforded by a number of specialists. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments

or of the appointments which they held at the time when consultations took place and (b) of the Classes on the names of genera of which assistance has been afforded, are the following :—

- H. A. Baylis (*British Museum (Natural History), London*) (Class Nematoda)
- L. Cernisvitov (*Reading, England*) (Class Chaetopoda)
- Ellsworth C. Dougherty (*University of California, Berkeley, California, U.S.A.*) (Class Nematoda)
- R. F. Ewer (*Natal University College, Pietermaritzburg, South Africa*) (Class Hydrozoa)
- H. Munro Fox (*Bedford College, University of London*) (Class Chaetopoda)
- A. Gillard (*Rijkslandbouwhogeschool, Ghent, Belgium*) (Class Nematoda)
- E. M. Hering (*Humboldt-Universität zu Berlin*) (Phylum Protozoa)
- C. A. Hoare (*The Wellcome Laboratories of Tropical Medicine, London*) (Phylum Protozoa) ;
- Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts, England*) (Class Hirudinea)
- R. T. Leiper (*Institute of Animal Parasitology, St. Albans, England*) (Class Nematoda)
- S. Prudhoe (*British Museum (Natural History), London*) (Class Cestoda ; Class Trematoda)
- W. J. Rees (*British Museum (Natural History), London*) (Class Hydrozoa)
- M. Ricci (*University of Rome, Italy*) (Class Cestoda)
- A. K. Totton (*British Museum (Natural History), London*) (Class Hydrozoa).

3. The cases dealt with in the present paper fall into the following four groups : (a) cases where no information or inadequate or incorrect information as to how the type species of genera had been determined under Article 30 was given in the *Opinions* in which the generic names in question were placed on the *Official List of Generic Names in Zoology*; (b) cases where wrong dates or wrong references were cited at the time when names were placed on the *Official List*; (c) cases in which special problems have been disclosed in regard to particular names ; (d) cases where objectively invalid names, whether generic or specific, are involved and the addition of those names to the appropriate *Official Index of Rejected and Invalid Names in Zoology* is therefore called for.

(1) **Proposed insertion in the " Official List of Generic Names in Zoology " of particulars as to the method by which the type species of twenty-three genera were determined under Article 30 of the " Règles "**

4. In all there are twenty-three entries on the *Official List* of the names of genera belonging to the Phyla dealt with in the present paper, for which either no information or inadequate or incorrect information was given as to the method by which the type species of the genera concerned were determined under Article 30 of the *Règles*. The *Opinions* containing those defective entries were the following:— *Opinion* 66 (eight names); *Opinion* 75 (two names); *Opinion* 77 (one name); *Opinion* 80 (one name); *Opinion* 84 (seven names); *Opinion* 104 (four names). In three cases special problems arise which are discussed separately below: *Ascaris* Linnaeus (paragraph 5); *Physalia* Lamarck, 1801 (paragraph 6); *Haemadipsa* Tennent (paragraph 7). In the remaining twenty cases no difficulty arises and all that is required is that the gaps left in the *Opinions* concerned should now be filled in. The relevant particulars regarding the twenty generic names concerned are given in Annexe 1 to the present paper

5. **The generic name " *Ascaris* " Linnaeus, 1758 (Class Nematoda) :** The generic name *Ascaris* Linnaeus, 1758, was placed on the *Official List of Generic Names in Zoology* with *Ascaris lumbricoides* Linnaeus, 1758, as type species by the Ruling given in *Opinion* 66. No information was, however, vouchsafed on that occasion as to the method by which under Article 30 the above species became the type species of this genus. Throughout the nineteenth century *Ascaris* Linnaeus was accepted as being the genus to which *lumbricoides* Linnaeus should be referred, this view being based upon the belief that *vermicularis* Linnaeus (the only other species placed in *Ascaris* by Linnaeus in 1758) had been " removed " from that genus in 1819 by Bremser (by whom it had been placed in *Oxyuris* Rudolphi, 1803). The prevalence of this view was no doubt responsible for the fact that as late as 1905 (*Bull. U.S. Bur. Anim. Ind.* 79 : 60—62) this fallacious argument was used when this question was debated at length by Stiles & Hassall. Their discussion is rendered largely irrelevant by reason of the fact that, although it was published four years after the adoption of the present *Règles* by the Fifth International Congress of Zoology at Berlin in 1901, and therefore four years after rejection in those *Règles* of the so-called " Principle of Elimination " (which previously had secured for itself a considerable vogue), their discussion of the interpretation of *Ascaris* was based entirely upon the fallacious assumption that in the matter of the determination of the type species of a genus the " Principle of Elimination " was binding and operative. However, Stiles and Hassall made it quite clear in the paper referred to above that in their view the type species of *Ascaris* Linnaeus was *Ascaris lumbricoides* Linnaeus. That they should have

done so is very fortunate, even though they reached this conclusion from entirely unsound premises, for, under a clarification of Rule (g) in Article 30 of the *Règles* adopted by the Thirteenth International Congress of Zoology in Paris in 1948 an author is to be deemed himself to have selected a given species to be the type species of a genus "if he makes it clear that he himself accepts . . . the species in question as the type species" of that genus "irrespective of whether he states or implies that that nominal species . . . had become the type species of that genus through the operation of some rule (for example, the so-called "Law of Elimination") not recognised in the *Règles* as a mandatory provision" (see 1950, *Bull. zool. Nomencl.* **4** : 182). Thus the action of Stiles & Hassall described above constitutes a selection of *Ascaris lumbricoides* Linnaeus to be the type species of *Ascaris* Linnaeus, and, as this was the first type selection made, it is the valid type selection for this genus. Separate mention of this matter is made here only because some twenty years later its validity was questioned by Leiper in a paper entitled "Discussion of the validity of Certain Generic Names at present in Use in Medical Helminthology" published in 1926 (*Arch. Schiffs-u. Tropenhyg.* **30** : 488—490). In this paper Leiper advanced the view (a) that the selection by Stiles & Hassall of *lumbricoides* Linnaeus as the type species of *Ascaris* was invalid, that species having been eliminated from consideration as a name available for selection as the type species of *Ascaris* through having been removed from that genus to *Stomachida* by Werner in 1782, and (b) that *Ascaris vermicularis* Linnaeus, the only other nominal species placed by Linnaeus in *Ascaris* in 1758 automatically became the type species of *Ascaris* as the result of the action by Werner referred to above. In advocating a revision in the nomenclature of these species on the foregoing lines Leiper took the view that the changes involved would not be so great as they would formerly have been, owing to the fact that the genera concerned were currently regarded as containing many fewer species than in the past. He agreed, however, that : "ASCARINAE would of course give place to STOMACHIDINAE and ASCARIDAE to STOMACHIDIDAE and ASCAROIDEA to STOMACHIDOIDEA". Fortunately, it is not necessary to consider this matter further, for, as explained above the current *Règles* do not recognise the "Principle of Elimination" as a mandatory provision in relation to the determination of the type species of genera. It is true that some ten years after the adoption of the *Règles* by the Berlin Congress the foregoing "Principle" was recognised by the Commission as a mandatory provision in one very limited class of case, namely where there was a genus which on establishment contained only two nominal species and later one of those species was made the type species of a monotypical genus. The *Opinion* (*Opinion* 6) in which this interpretation of Article 30 was given was, however, swept away by the Fourteenth International Congress of Zoology, Copenhagen (see 1953, *Copenhagen Decisions zool. Nomencl.* : 72, Decision 135). It should be noted moreover that, even if the foregoing *Opinion* had not been repealed, it would not have applied in the present case, for

Werner (1782), the author whose action formed the principal support for Leiper's argument did not make *Ascaris lumbricoides* Linnaeus the type species of a new monotypical genus, as he would have had to do in order to bring his action within the scope of *Opinion* 6. All that he did was to place in a previously established genus (*Stomachida* Pereboom, 1780) a nominal species then named by himself for the first time (*Stomachida perebromii* [sic]) which has been interpreted by later workers as representing the same taxon as that represented by the nominal species *Ascaris lumbricoides* Linnaeus. We see therefore that not only did Werner's action not qualify under *Opinion* 6 owing to his not having transferred *lumbricoides* Linnaeus to a new monotypical genus but in addition that he did not concern himself with the foregoing nominal species at all, his action such as it was, being concerned with a different nominal species, namely *Stomachida perebromii* then introduced by himself, the only link between *perebromii* Werner and *lumbricoides* Linnaeus being taxonomic and not nomenclatorial and arising solely from the fact that later authors treated these two nominal species as representing the same taxon and accordingly treated these two names as subjective synonyms of one another. It will be seen therefore that the history of the name *Ascaris* Linnaeus has been hag-ridden by vain delusions as to the nomenclatorial efficacy of "elimination" but that fortunately this does not detract from the status of the nominal species *Ascaris lumbricoides* Linnaeus as the valid type species of this genus. It is proposed for the reasons explained above that in the entry on the *Official List* relating to the name *Ascaris* Linnaeus the above species should be cited as the type species by selection by Stiles & Hassall (1905).

**6. The generic name "Physalia" Lamarck, 1801 (Class Hydrozoa) :** The generic name *Physalia* Lamarck, 1801, was placed on the *Official List* by the Ruling given in *Opinion* 80, the type species being cited as "*P. pelagica* 1801 (syn. *H. physalis* 1758)". The Plenary Powers were used in this *Opinion* but this action appears to have been confined to the suppression of the generic name *Holothuria* Linnaeus, 1758, for the purposes both of the Law of Priority and of the Law of Homonymy in order (a) to avoid the use of that name for a Hydrozoan, and (b) to continue the use of that name, dated from Linnaeus, 1767, instead of from Linnaeus, 1758, for a Holothurian. An essential by-product of the foregoing decision was to make the generic name *Physalia* Lamarck, then (as now) in general use, the oldest available name for the genus of the Class Hydrozoa to which in the absence of action under the Plenary Powers the older name *Holothuria* Linnaeus, 1758, would have been applicable. It follows that, as action under the Plenary Powers was confined in this case to the purposes described above, it is necessary to determine anew in the light of Lamarck's own remarks what is the type species of his genus *Physalia*. Reference to the *Système* of Lamarck in which this generic name was first published shows that in that work Lamarck recognised only one taxonomic species as belonging to the genus *Physalia*, but that for this species he

gave several bibliographical references, all of which, with the exception of that to the 10th Edition of the *Systema Naturae* of Linnaeus (discussed below) were by non-binominal authors. The first point that must be noted is that under *Declaration 26* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* **13** : xxxvii—1) a nominal genus established in the foregoing way is to be treated as being a monotypical genus. The name Lamarck himself applied to the single species which he recognised was *Physalia pelagica* a nominal species then introduced for the first time. Normally, therefore, the correct course would be to treat the nominal species *Physalia pelagica* Lamarck, 1801, as being the type species of the genus *Physalia* Lamarck, 1801, by monotypy. At this point, however, it is necessary to note that immediately after the name *Physalia pelagica*, Lamarck inserted the letter “n,” [signifying nova] followed by the citation “*Holothuria physalis* Lin.” In other words, Lamarck, being opposed (as were most authors of his time) to tautonymy (whether absolute or virtual) between generic and specific names, decided to introduce a new specific name (*pelagica*) in place of *physalis* Linnaeus, when he decided to place that species in a new genus and to give to that genus the “virtual tautonym” *Physalia*. The specific name *pelagica* Lamarck, 1801, is thus a junior objective synonym of *physalis* Linnaeus, 1758. At this point it is necessary to recall that it is provided in *Declaration 21* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* **12** : i—viii) that, where one of two or more objectively identical nominal species is designated, indicated or selected as the type species of a genus, that genus shall be cited as having as its type species the oldest established of the nominal species concerned. Accordingly, under the foregoing *Declaration* the correct course is to cite the genus *Physalia* Lamarck, 1801, as having as its type species the nominal species *Holothuria physalis* Linnaeus, 1758, that being objectively identical with the nominal species *Physalia pelagica* Lamarck, 1801, and being the older of the two nominal species in question. It is accordingly proposed to complete the entry in the *Official List* relating to the name *Physalia* Lamarck, by inserting an entry (i) that the type species of this genus is determined by monotypy under the provisions of *Declaration 26* and (ii) that under the provisions of *Declaration 21* the type species so determined is to be cited under the name *Holothuria physalis* Linnaeus, 1758.

**7. The generic name “Haemadipsa” Tennent, 1861 (Class Hirudinea)** : This name was placed on the *Official List* by the Ruling given in *Opinion 104* where it was stated without comment that the type species of this genus was “*zeylanica* Moq.-Tand.” by monotypy. This statement is in part incorrect. Reference to Tennent’s work shows that he cited two nominal species in connection with the generic name *Haemadipsa*. These were: (a) *Haemadipsa ceylanica* which he attributed to “Bosc, Blainville” and for which he gave references to papers by various other authors, including Moquin-Tandon; (b)

Tennent then says that Bosc's description of his *ceylanica* ("rouges et tachetées") did not apply satisfactorily to the Singhalese species and that, having regard to the period at which he wrote and that he obtained his information from travellers to countries further east, it might well be that Bosc's description was based upon the land leech of Batavia or Japan. Tennent concluded therefore that: "There may be an *H. boscii*, distinct from the *H. Ceylanica*". In view of the fact, as shown by the foregoing quotation, that the new nominal species *Haemadipsa boscii* was a *species inquirenda* from Tennent's standpoint, it is ineligible (under Rule (e) in Article 30) for consideration as a possible type species for the genus *Haemadipsa* of that author. Since the nominal species cited by Tennent as "*H. ceylanica*" of "Bosc, Blainville" is the only other species cited by him for the genus *Haemadipsa*, it becomes automatically the type species of that genus by monotypy. So far as concerns the Rule in Article 30 under which the type species of this genus was determined, the statement in *Opinion* 104 is thus seen to be correct, but it was in regard to the orthography and authorship of the name of the type species so determined that *Opinion* 104 fell into error. Bosc's share in the elucidation of the species concerned was limited to providing a description of the leech under the vernacular (French) name "le sangsue de Ceylan" (Bosc, 1819, *Nouv. Dict. Hist. nat.* (Nouv. Ed.) 30 : 141). For the scientific name for this animal it is therefore necessary to look elsewhere. Examination of the literature shows that eight years were to elapse before a scientific name was given to this species and that then (i.e. in 1827) it was named independently by two different authors in papers published within a month of one another. These names were (i) *Hirudo ceylanica* Blainville, [June] 1827, *Dict. Sci. nat.* 47 : 271 ; (ii) *Sanguisuga zeylanica* Moquin-Tandon, [July] 1827, *Mon. Hirud.* : 120. Blainville and Moquin-Tandon each based his nominal species on the description previously published by Bosc, and the names *ceylanica* Blainville and *zeylanica* Moquin-Tandon are therefore objective synonyms of one another, the former having about one month's priority. (The dates here attributed to the foregoing names are based upon investigations undertaken by the late C. D. Sherborn, the results of which were given by him in 1922 in the *Index Anim.* (Pars secund. : xliiv, xci). It may be noted that occasionally Moquin-Tandon's name *zeylanica* has been attributed to "1826", as the result (as it appears from a manuscript note by Sherborn in the Zoological Society's copy of the *Mon. Hirud.*) of that work having been issued in 1826 as a pre-print for the purpose of serving as a thesis. No copy of this pre-print was, however, known to Sherborn.) Having now established what is the earliest scientific name given to the leech described by Bosc and having also examined the nomenclature used for that species by Tennent when establishing the genus *Haemadipsa*, we may note that the name so used was the older of the two (i.e. *ceylanica* Blainville), and that the Commission was therefore in error in *Opinion* 104 when it cited the type species under the name *zeylanica* Moquin-Tandon.

(2) Cases where wrong dates or wrong references were cited when generic names were placed on the "Official List"

**8. The generic name "Gnathostoma" Owen (Class Nematoda) :** The generic name *Gnathostoma* Owen was placed on the *Official List* by a Ruling given in *Opinion* 66, where it was stated to have been published in 1836, the reference for this name being given in the contracted form "1836f, 123—126". The correct reference for this name is *Proc. zool. Soc. Lond.* 4 : 125 (which is evidently the reference which the contracted formula used in *Opinion* 66 was intended to convey). The point which must here be noted is the Part (Part xlvii) of volume 4 of the Proceedings in which Gruby's paper appeared was published on 20th February 1837 (Duncan (F.M.), 1937, *Proc. zool. Soc. Lond.* 107(A)(1) : 78). This date must therefore be substituted for the incorrect date cited in the above *Opinion*.

**9. The generic name "Dicrocoelium" Dujardin (Class Trematoda) :** The generic name *Dicrocoelium* Dujardin was placed on the *Official List* by a Ruling given in *Opinion* 84. The date "1845" was there attributed to this name. This name appeared in the "Helminthes" volume of Roret's *Suite à Buffon*, the dates for the various volumes of which were published by Sherborn in 1922 (*Index Anim.*, Pars secund. : xxxiii). The date of the "Helminthes" volume was November 1844. The date attributed to *Dicrocoelium* Dujardin on the *Official List* should be corrected accordingly.

**10. The generic name "Trypanosoma" Gruby, 1843 (Class Mastigophora) :** The generic name *Trypanosoma* Gruby, 1843, was placed on the *Official List* by a Ruling given in *Opinion* 95, the type species of the genus so named being the then new nominal species *Trypanosoma sanguinis* Gruby, 1843. The point which calls for attention is that there is another nominal species *Amoeba rotatoria* Mayer (A.F.J.C.) which is subjectively regarded as representing the same taxon as that represented by *Trypanosoma sanguinis* Gruby, the name of which was also published in the year 1843. The species in question is always known by the name *rotatoria* Mayer and it is important to establish as firmly as possible whether that name in fact possesses priority over its subjective synonym *sanguinis* Gruby. Fortunately, there is clear evidence in this sense. The name *Trypanosoma sanguinis* Gruby was published in Volume 17 of the *C.R. Acad. Sci.* of Paris and the Part of that volume containing Gruby's paper appeared on 13th November 1843, as was correctly stated in *Opinion* 95. Nothing was said in that *Opinion* as to the date in 1843 on which the competing name *Amoeba rotatoria* Mayer was published, although that name was there treated as having priority. This matter had, however, already been investigated by Nabarro in 1907 (*in* Laveran & Mesnil, *Trypanosomes and Trypanosomiases* : 465, footnote)



where he had shown that the book by Mayer in which the specific name *rotatoria* Mayer first appeared (*Spicil. Observat. anat. Organo electric. Raiis analectric. Haematoz.*) was published in July 1843. Accordingly the name *rotatoria* Mayer has four months' priority over its synonym *sanguinis* Gruby. Since the synonymy is subjective and not objective, the name *sanguinis* Gruby is an available name, and as such, is ineligible for admission to the *Official Index of Rejected and Invalid Specific Names in Zoology*. In order, however, to safeguard the position of the name *rotatoria* Mayer to the full extent possible in the circumstances, it is advisable that the month "July"—cited in square brackets—should be inserted in front of the year "1843" in the particulars relating to this name which will need to be made on the *Official List of Specific Names in Zoology* (see paper Z.N.(S.) 1126, which, with Voting Paper V.P.(O.M.)(56)27, is being submitted to the Commission concurrently with the present paper).

**11. The authorship attributable to the generic name "Stilesia" (Class Cestoda) :** The generic name *Stilesia* was placed on the *Official List* by a Ruling given in *Opinion 77*, this name being there attributed to Railliet, the reference to the name being cited as "Rail., 1893a, 277—278". The reference which the foregoing contracted formula was intended to convey is Railliet, 1893, *Traité de Zoologie* (Ed. 2) (Fasc. 1) : 277—278. Prior to the appearance of the foregoing volume in December 1893, the name *Stilesia* appears to have been given an irregular currency as a manuscript name of Railliet's. In the present case the result was particularly unfortunate, for not only was Railliet anticipated by another author in the publication of this name but in addition the author who so anticipated him was the author (Stiles) in whose honour Railliet had proposed to name this genus. The paper in which in this unfortunate manner the name *Stilesia* first saw the light was published earlier in the same year, the reference to this name being Stiles & Hassall, 1893, *Bull. U.S. Bur. Anim. Ind.* 4 : 73. The entry on the *Official List* relating to this generic name will need to be corrected accordingly. Fortunately both Stiles & Hassall on the one hand and Railliet on the other hand designated *Taenia globipunctata* Rivolta as the type species of this genus and the correction of the attribution of this generic name does not therefore affect the type species. There are, however, some at present unsolved difficulties in regard to the name of the type species. These are discussed in the immediately following paragraph.

**12. Specific name of type species of "Stilesia" Stiles & Hassall, 1893 :** In the entry relating to the generic name *Stilesia* made on the *Official List* by the Ruling given in *Opinion 77* the name of the type species (*Taenia globipunctata* Rivolta) was attributed to the year "1874" but no bibliographical reference was given for it. Dr. C. W. Stiles, at that time Secretary to the International Commission, added a note stating (a) that he had been unable to verify the reference for the

foregoing name, and (b) that as to its date this was given by Monticelli as "1874" (the date accepted in the *Opinion*) but by Railliet as "1877". Considerable efforts to trace this reference have been made by this Office but so far without success. These investigations are still proceeding. It is suggested that, when the reference for this name has been ascertained, it should be inserted in the *Official List* without reference back to the Commission, provided that the investigations now in progress do not disclose any at present unsuspected difficulty, in which case the matter should be re-submitted to the Commission for decision.

(PARENTHETICAL NOTE TO COMMISSIONERS : If any member of the Commission either himself possesses any information on the above subject or is in contact with any specialist in the Cestoda who possesses such information, it will be of great assistance if he will communicate with this Office as soon as possible.)

### (3) Special problems arising in connection with particular names

**13. Name of type species of "Sarcocystis" Lankester, 1882 (Class Nematoda) :** The generic name *Sarcocystis* Lankester, 1882, was placed on the *Official List* by a Ruling given in *Opinion* 104 where it was stated that the type species was "*miescheri* syn. *miescheriana*" by monotypy. The taxon concerned was first described by Miescher in a paper which it has not been possible so far to trace but which is now being searched for by this Office. It is clear, however, from later writers that Miescher did not give a scientific name to this species in his paper. The first author to do so was Kühn (J.), (1865) who gave the name *Synchytrium miescherianum* to the taxon described (but not named) by Miescher. In 1880 Lankester introduced the new nominal genus *Sarcocystis* for this species, at the same time giving it the name *Sarcocystis miescheri*. Since both of these nominal species were based upon Miescher's original description, the names given to them by Kühn and Lankester respectively are objective synonyms of one another, the older name *miescherianum* Kühn being the valid name for this species. Under the provisions of *Declaration* 21 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 12 : i—viii), where one of two or more objectively identical nominal species is designated, indicated or selected as the type species of a genus, that genus shall be cited as having as its type species the oldest established of the nominal species concerned. When these provisions are applied to the nominal genus *Sarcocystis* Lankester, it is seen that, although Lankester cited the type species under the name *Sarcocystis miescheri* Lankester (a new nominal species then (i.e. in 1880) introduced for the first time) that genus is to be cited as having as its type species the objectively identical and earlier established nominal species *Synchytrium miescherianum* Kühn, 1865. It will be necessary now to amend the entry on the *Official List* accordingly.

**14. The orthography of the generic name "Ancylostoma" Dubini, 1843 (Class Nematoda):** By a Ruling given in *Opinion* 66 the Commission placed on the *Official List* the generic name *Ancylostoma* Dubini, 1843, at the same time pointing out that this spelling for this name had been introduced by Creplin in 1845 in place of the spelling originally employed by Dubini. The spelling used by the latter author was not mentioned in the foregoing *Opinion*. It was, however, *Agchylostoma* and represents a mistransliteration from the Greek of a kind which others besides Dubini who possessed no Greek have committed when attempting to latinise Greek words in which the letter Gamma precedes the letter Chi. In view of the decision by the Fourteenth International Congress of Zoology (1953, *Copenhagen Decisions zool. Nomencl.* : 45, Decision 74) to protect emendations already accepted by the Commission from re-examination in the light of the revision of the rules relating to the emendation of names then adopted, it is not necessary to consider whether under the rules as they exist today the emendation of *Agchylostoma* to *Ancylostoma* would be justified or not. All that is required is (a) to make a note in the *Official List* that the name *Ancylostoma* Dubini is an emendation of a name originally published with the spelling *Agchylostoma*, and (b) to place the spelling *Agchylostoma* Dubini, 1843, on the *Official Index of Rejected and Invalid Generic Names in Zoology* as an Invalid Original Spelling.

**(4) Proposed addition of certain objectively invalid names to the "Official Indexes of Rejected and Invalid Names in Zoology"**

**15.** As in the case of reviews previously undertaken in regard to other groups of generic names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, the review of the present group of names has brought to light a number of objectively invalid generic names and a few objectively invalid specific names, all of which should now be placed on the appropriate *Official Index of Rejected and Invalid Names in Zoology*. Full particulars are given in Annexe 2, the generic names being listed in Section A, the specific names in Section B.

**(5) Family-group-name problems**

**16.** A number of the genera, the names of which are dealt with in the present instalment of the review of names placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, are the type genera of family-group taxa. Considerable progress has been made in collecting the information required for the preparation of proposals for the addition of the family-group names concerned to the *Official List of Family-Group Names in Zoology*. As in the case of

previous instalments of this review, it is proposed to defer the submission to the Commission of proposals on this subject until after the completion of the examination of the problems arising directly at the generic-name level.

### (6) Recommendations

17. In the light of the particulars given in the preceding paragraphs regarding the action required to complete and, where necessary, to correct the entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes and Annelida made on the *Official List of Generic Names in Zoology* by Rulings given by the Commission in the period up to the close of 1936, I recommend that, in discharge of the duties imposed by the General Directives regarding the completion of Rulings given in *Opinions* rendered in the foregoing period issued by the Thirteenth International Congress of Zoology, Paris, 1948, and of the Directives supplementary thereto issued by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the International Commission on Zoological Nomenclature should :—

- (1) enter on the *Official List of Generic Names in Zoology* in respect of each of the generic names specified in Annexe 1 to the present paper the particulars there given as to the manner in which the type species of the genus concerned was determined under Article 30 of the *Règles* (paragraph 4) ;
- (2) insert on the foregoing *Official List* in respect of the generic name *Ascaris* Linnaeus, 1758, an entry that *Ascaris lumbricoides* Linnaeus, 1758, is the type species of the foregoing genus by selection by Stiles & Hassall (1905) (paragraph 5) ;
- (3) complete the entry relating to the generic name *Physalia* Lamarck, 1801, on the *Official List* by inserting the following entries, namely : (a) that the type species of this genus was determined under the provisions of *Declaration 26*, and (b) that under the provisions of *Declaration 21* the type species so determined is to be cited under its oldest objectively available name *Holothuria physalis* Linnaeus, 1758 (paragraph 6) ;
- (4) substitute the name *Hirudo ceylanica* Blainville, [June] 1827, for the name *Sanguisuga zeylanica* Moquin-Tandon, [July] 1827, on the *Official List* as the name of the type species of *Haemadipsa* Tennent, 1861 (paragraph 7) ;
- (5) correct from “ 1836 ” to “ [1837] ” the date attributed on the *Official List* to the generic name *Gnathostoma* Owen (paragraph 8) ;
- (6) correct from “ 1845 ” to “ [1844] ” the date attributed on the *Official List* to the generic name *Dicrocoelium* Dujardin (paragraph 9) ;

- (7) insert the notation "[July]" before the date "1843" in the citation of the specific name *rotatoria* Mayer (A.F.J.C.), as published in the combination *Amoeba rotatoria*, when (as recommended in Paper Z.N.(S.) 1126, which is being submitted with Voting Paper V.P.(O.M.)(56)27<sup>10</sup>, and is being submitted to the Commission concurrently with the present paper) the foregoing specific name is placed on the *Official List of Specific Names in Zoology* (paragraph 10) ;
- (8) substitute "Stiles & Hassall, 1893" for "Railliet, 1893" as the authorship and date to be attributed on the *Official List* to the generic name *Stilesia* (paragraph 11) ;
- (9) take note that the original reference for, and the date of publication of, the binomen *Taenia globipunctata* Rivolta has not been definitely established and authorise the insertion in the entry on the *Official List* relating to the generic name *Stilesia* Stiles & Hassall, 1893, of the relevant particulars, when ascertained, without further reference to the Commission, unless in the course of the investigations now in progress some at present unsuspected difficulty is disclosed, in which case the matter should be re-submitted to the Commission for decision (paragraph 12) ;
- (10) enter on the *Official List of Generic Names in Zoology* the nominal species *Synchytrium miescherianum* Kühn (J.), 1865, as the type species of the genus *Sarcocystis* Lankester, 1880, with an endorsement that this species is the type species by monotypy under the provisions of *Declaration 21* (paragraph 13) ;
- (11) make clear in the entry on the above *Official List* relating to the generic name *Ancylostoma* Dubini, 1843, that this name so spelled is an emendation of *Agchylostoma* and at the same time place the spelling *Agchylostoma* Dubini, 1843, on the *Official Index of Rejected and Invalid Generic Names in Zoology* as an Invalid Original Spelling (paragraph 14) ;
- (12) place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the objectively invalid generic names enumerated in Section A of Annexe 2 to the present paper (paragraph 15) ;
- (13) place on the *Official Index of Rejected Invalid Specific Names in Zoology* the invalid specific names enumerated in Section B of Annexe 2 to the present paper (paragraph 15).

<sup>10</sup> The decision taken by the International Commission on the Voting Paper here referred to has since been embodied in *Direction 77*, which is being published simultaneously with the present *Direction* in the immediately following Part of the present Section of Volume 1.

## ANNEXE 1

**Proposals as to the entries to be inserted in the " Official List of Generic Names in Zoology " regarding the method by which the type species of certain genera, the names of which were placed on that " List " in the period up to the end of 1936, were determined**

| <i>Name of Genus</i>                | <i>Entry now proposed to be inserted in the " Official List of Generic Names in Zoology "</i>           |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| (1)                                 | (2)                                                                                                     |
| <b>" Opinion " 66</b>               |                                                                                                         |
| <i>Ancylostoma</i> Dubini, 1843     | By monotypy                                                                                             |
| <i>Gnathostoma</i> Owen, [1837]     | By monotypy                                                                                             |
| <i>Necator</i> Stiles, 1903         | By monotypy                                                                                             |
| <i>Strongyloides</i> Grassi, 1879   | By monotypy                                                                                             |
| <i>Trichostrongylus</i> Looss, 1905 | By original designation                                                                                 |
| <i>Gordius</i> Linnaeus, 1758       | By Linnean tautonymy                                                                                    |
| <i>Paragordius</i> Camerano, 1897   | By subsequent selection by Stiles & Hassall, 1905, <i>Bull. U.S. Bur. Anim. Ind.</i> <b>79</b> : 127    |
| <b>" Opinion " 75</b>               |                                                                                                         |
| <i>Volvox</i> Linnaeus, 1758        | By subsequent selection by Apstein, 1915, <i>SitzBer. Ges. Naturf. Freunde Berlin</i> <b>1915</b> : 122 |
| <i>Hirudo</i> Linnaeus, 1758        | By subsequent selection by Apstein, 1915, <i>SitzBer. Ges. Naturf. Freunde Berlin</i> <b>1915</b> : 140 |
| <b>" Opinion " 77</b>               |                                                                                                         |
| <i>Hemiurus</i> Rudolphi, 1809      | By subsequent selection by Stiles & Hassall, 1898, <i>Arch. Parasit.</i> <b>1</b> (1) : 90              |

Name of Genus

Entry now proposed to be  
inserted in the "Official  
List of Generic Names in  
Zoology"

(1)

(2)

## "Opinion" 84

- Dicrocoelium* Dujardin, [1844] By subsequent selection by Stiles & Hassall, 1898, *Arch. Parasit.* 1(1) : 88
- Fasciola* Linnaeus, 1758 By subsequent selection by Stiles & Hassall, 1898, *Arch. Parasit.* 1(1) : 88
- Gastrodiscus* Cobbold, 1877 By monotypy
- Heterophyes* Cobbold, 1866 By monotypy
- Davainea* Blanchard & Railliet, 1891 By subsequent selection by Stiles & Hassall, 1896, *Bull. U.S. Bur. Anim. Ind.* 12 : 46
- Dipylidium* Leuckart, 1863 By subsequent selection by Stiles & Hassall, 1896, *Bull. U.S. Bur. Anim. Ind.* 12 : 29
- Gigantorhynchus* Hamann, 1892 By subsequent selection by Stiles & Hassall, 1905, *Bull. U.S. Bur. Anim. Ind.* 79 : 108

## "Opinion" 104

- Bursaria* Müller (O.F.), 1773 By subsequent selection by Apstein, 1915, *SitzBer. Ges. Naturf. Freunde Berlin* 1915 : 122
- Ligula* Bloch, 1782 By subsequent selection by Braun, 1900, in Bronn, *Klass. Ord. Thierr.* 4 : 1670
- Filaria* Müller (O.F.), 1787 By subsequent selection by Stiles & Hassall, 1905, *Bull. U.S. Bur. Anim. Ind.* 79 : 106

## ANNEXE 2

**Proposed addition of certain objectively invalid names to the " Official Indexes of Rejected and Invalid Names "**

**Section A : Proposed addition of forty-seven generic names to the " Official Index of Rejected and Invalid Generic Names in Zoology "**

1. *Agchylostoma* Dubini, 1843, *Ann. Univ. Med.* (Milano) **106** (no. 316) : 5, 10 (an Invalid Original Spelling for *Ancylostoma* Dubini, 1843, placed on the *Official List* in *Opinion* 66)
2. The under-mentioned Erroneous Subsequent Spellings for *Ancylostoma* (emend. of *Agchylostoma*) Dubini, 1843 :—
  - (a) *Anchylostamum* Moehlau, 1897, *Buffalo med. J.* (n.s.) **36** : 573
  - (b) *Anchylostoma* Pruner, 1847, *Krankh. Or* : 244
  - (c) *Anchylostomos* Wucherer, 1868, *Gazeta med. Bahia* **2** : 150
  - (d) *Anchylostomum* Diesing, 1851, *Syst. Helminth.* **2** : 321
  - (e) *Ancylostomom* Molin, 1861, *Mem. Ist. Veneto* **9** : 486
  - (f) *Ancylostomum* Diesing, 1851, *Syst. Helminth.* **2** : 82
  - (g) *Ancylostormum* Schifone, 1908, *Riforma med.* **24** (fasc. 48) : 1328
  - (h) *Ankylostoma* Lutz, 1885, *Samml. Klin. Vortr. Inn. Med.* (fasc. 88) : 2295
  - (i) *Ankylostomum* Bugnion, 1881, *Brit. med. J.* **1881** : 382
3. *Arcella* Ehrenberg, 1838, *Infusionsth. vollk. Org.* : 132 (a junior homonym of *Arcella* Ehrenberg, 1830, placed on the *Official List* in *Opinion* 77)
4. *Cyclosiphon* Ehrenberg, 1856, *Abh. Koenigl.-Preuss. Akad. Berlin* **1855** (Phys) : 168 (suppressed under the Plenary Powers for the purposes of the Law of Priority but not for those of the Law of Homonymy, in *Opinion* 127)



5. The under-mentioned Erroneous Subsequent Spellings for *Davainea* Blanchard & Railliet, 1891, placed on the *Official List* in *Opinion* 84 :—
- (a) *Davaena* Cohn, 1900, *Zool. Anz.* **23** : 92
  - (b) *Davaena* Cohn, 1899, *Zbl. Bakt.* (I) **25** : 419
  - (c) *Davainaea* Diamare, 1893, *Boll. Soc. Nat. Napoli* (1) **7** : 11
  - (d) *Davainia* Cohn, 1899, *Zbl. Bakt.* (I) **25** : 415, 419
6. *Enchytreus* Udekem, 1854, *Bull. Acad. roy. Sci. Lett. Belgique* **21**(2) : 853 (an Erroneous Subsequent Spelling for *Enchytraeus* Henle, 1837, placed on the *Official List* in *Opinion* 104)
7. The under-mentioned junior homonyms of *Fasciola* Linnaeus, 1758, placed on the *Official List* in *Opinion* 84 :—
- (a) *Fasciola* Linnaeus, 1761, *Fauna svec.* (ed. 2) : 505
  - (b) *Fasciola* Müller (O.F.), 1774, *Verm. terrestr. fluviat. Hist.* **1**(2) : 57
  - (c) *Fasciola* Goeze, 1782, *Versuch. Naturg. Eingeweidewurmer* : 41, 180
8. *Filaria* Rudolphi, 1809, *Entoz. Hist. nat.* **2**(1) : 69 (an Erroneous Subsequent Spelling for *Filaria* Müller, 1787, placed on the *Official List* in *Opinion* 104)
9. The under-mentioned Erroneous Subsequent Spellings for *Gastrodiscus* Cobbold, 1877, placed on the *Official List* in *Opinion* 84 :—
- (a) *Gastrodiseus* Kowalewski, 1899, *Rozpr. Akad. Krakow* (2) **15** : 158
  - (b) *Gastrodiskus* Schneidemuehl, 1896, *Lehrb. vergl. Path.* (fasc. 2) : 295
10. *Gigantorhynchus* Weinberg & Romanowitsch, 1908, *Clin. veter.* **31** : 41 (an Erroneous Subsequent Spelling for *Gigantorhynchus* Hamann, 1892, placed on the *Official List* in *Opinion* 84)

11. The under-mentioned Erroneous Subsequent Spellings for *Gnathostoma* Owen, [1837], placed on the *Official List* in *Opinion* 66 :—
- (a) *Gnathosoma* Kreft, 1871, *Trans. ent. Soc. N.S. Wales* **2** : 210
  - (b) *Gnathostome* Ward, 1903, *Trans. Amer. micr. Soc.* **24** : 104
  - (c) *Gnathostomum* Blanchard, 1896, in Bouchard, *Traité Path.* **2** : 651, 747
12. *Gordius* Slabber, [1769—1778], *Natuurk. Verhustig.* : 61 (a junior homonym of *Gordius* Linnaeus, 1758, placed on the *Official List* in *Opinion* 66)
13. *Gynaecophorus* Diesing, 1858, *SitzBer. Akad. Wiss. Wien* (Math. naturw. Kl.) **32** : 356 (a junior objective synonym of *Schistosoma* Weinland, 1858, placed on the *Official List* in *Opinion* 77)
14. *Hemius* Gervais, 1855, in Laporte, *Exp. Amér. Sud.* **1** (Mamm.) : 101 (a junior homonym of *Hemius* Rudolphi, 1809, placed on the *Official List* in *Opinion* 77)
15. *Hirudo* Müller, 1788, *Zool. dan.* [ed. 3] **1** : 21 (a junior homonym of *Hirudo* Linnaeus, 1758, placed on the *Official List* in *Opinion* 75)
16. *Laverania* Theobald, 1902, *J. Trop. Med.* **5** : 183 ; *id.*, 1903, *Monogr. Culic.* **3** : 181 (a junior homonym of *Laverania* Grassi & Feletti, 1890, placed on the *Official List* in *Opinion* 104)
17. *Ligula* Montagu, 1808, *Test. Brit. Suppl.* : 22 (a junior homonym of *Ligula* Bloch, 1782, placed on the *Official List* in *Opinion* 104)
18. *Lithostrotium* Agassiz, 1846, *Nomencl. zool. Index Univ.* : 214 (an Invalid Emendation of *Lithostrotion* Fleming, 1828, placed on the *Official List* in *Opinion* 128)
19. The under-mentioned Erroneous Subsequent Spellings for *Moniezia* Blanchard, 1891, placed on the *Official List* in *Opinion* 77 :—
- (a) *Monietia* Diamare, 1900, *Zbl. Bakt.* (I Orig.) **28** : 849
  - (b) *Monieza* Smith, 1908, *Med. Bull. Pennsylvania* **20** (no. 12) : 264

20. *Physalia* Langerhans, 1884, *Z. Wiss. Zool.* **40** : 264 (a junior homonym of *Physalia* Lamarck, 1801, placed on the *Official List* in *Opinion* 80)
21. *Physalis* Lamarck, 1816, *Hist. nat. Anim. sans Vertèbr.* **2** : 480 (an Invalid Emendation of *Physalia* Lamarck, 1801)
22. The under-mentioned junior homonyms of *Schistosoma* Weinland, 1858, placed on the *Official List* in *Opinion* 77 :—  
 (a) *Schistosoma* Brady, 1877, *Proc. zool. Soc. Lond.* **1877** : 27  
 (b) *Schistosoma* Hansen, 1916, *Danish Ingolf Exped.* **3(5)** : 53
23. *Schistosomum* Laveran & Blanchard, 1895, *Hématoz.* **2** : 40 (an Invalid Emendation of *Schistosoma* Weinland, 1858)
24. *Sclerostoma* Rudolphi, 1809, *Entozoorum* **2(1)** : 35 (a junior objective synonym of *Strongylus* Müller (O.F.), 1780, placed on the *Official List* in *Opinion* 104)
25. *Strongylus* Herbst, 1792, in Jablonsky, *Nat. Ins.* (Käfer) **4** : 179 (a junior homonym of *Strongylus* Müller (O.F.), 1780, placed on the *Official List* in *Opinion* 104)
26. The under-mentioned junior homonyms of *Taenia* Linnaeus, 1758, placed on the *Official List* in *Opinion* 84 :—  
 (a) *Taenia* Pallas, 1786, *Elench. Zooph.* : 415  
 (b) *Taenia* Walker, 1866, *List. Spec. Lep. Ins. Brit. Mus.* **4** : 927 (published in synonymy)
27. *Thecosoma* Moquin-Tandon, 1860, *Elém. Zool. méd.* : 342 (a junior objective synonym of *Schistosoma* Weinland, 1858, placed on the *Official List* in *Opinion* 77)
28. *Thysanosomum* Galli-Valerio, 1897, *Moderno Zoiatro* **8** : 7, 8 (an Invalid Emendation of *Thysanosoma* Diesing, 1835, placed on the *Official List* in *Opinion* 77).

**Section B : Proposed addition of six specific names to the  
 “ Official Index of Rejected and Invalid Specific Names in  
 Zoology ”**

1. *aegyptiaca* Cobbold, 1866, *Tapeworms* : 6 as published in the combination *Heterophyes aegyptiaca* (a *nom. nov.* for *heterophyes* Siebold, [1852], as published in the combination *Distomum heterophyes*)

2. *lanceolata* Rudolphi, 1803, Wiedemann's *Arch. Zool.* 3(2) 1803 : 24, as published in the combination *Fasciola lanceolata* (a junior primary homonym of *lanceolata* Schrank, 1790, as published in the combination *Fasciola lanceolata*)
3. *miescheri* Lankester, 1882, *Quart. J. micr. Sci.* (n.s.) 22 : 54, 60, as published in the combination *Sarcocystis miescheri* (a junior objective synonym of *miescherianum* Kühn (J.), 1865, as published in the combination *Synchytrium miescherianum*)
4. *pelagica* Lamarck, 1801, *Syst. Anim. sans Vertèbr.* : 335, as published in the combination *Physalia pelagica* (a *nom. nov.* for *physalis* Linnaeus, 1758, as published in the combination *Holothuria physalis*)
5. *trachealis* Siebold, 1836, *Arch. Naturg.* 2(1) : 105, as published in the combination *Syngamus trachealis* (a junior objective synonym of *trachea* Montagu, 1811, as published in the combination *Fasciola trachea*)
6. *zeylanica* Moquin-Tandon, [July] 1827, *Mon. Hirud.* : 120 as published in the combination *Sanguisuga zeylanica* (a junior objective synonym of *ceylanica* Blainville, [June] 1827, as published in the combination *Hirudo ceylanica*).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of completing and correcting in the manner proposed the entries relating to the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes and Annelida made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1125.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)26 :** On 16th November 1956 a Voting Paper (V.P.(O.M.)(56)26) was issued in which each Member of the Commission was asked (1) to state whether he agreed "that, in accordance with the General Directives

issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1936, and other matters on which action is required in order to complete, to clarify, or to correct Rulings given in *Opinions* rendered in the foregoing period, the action recommended in paragraph 17 of the paper numbered Z.N.(S.)1125, regarding the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes and Annelida, submitted by the Secretary simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be now taken as there recommended", and (2), if he did not so agree as regards any given item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period would normally have closed on 16th December 1956. In view, however, of the possibility of delays in overseas mails consequent upon the abnormally heavy traffic at Christmas time, the Secretary on 16th December 1956 executed a Minute extending the Prescribed Voting Period on the above Voting Paper to 28th December 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)26 :** At the close of the Prescribed Voting Period, extended as specified in paragraph 4 above, the state of the voting on Voting Paper V.P.(O.M.)(56)26 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which the Votes were received) :*

Mayr ; Hering ; Vokes ; Lemche ; Esaki ; Kühnelt ;  
Holthuis ; Tortonese ; Bradley (J.C.) ; Mertens ;

Prantl ; Miller ; Dymond ; Stoll ; Boschma ; Sylvester-Bradley ; Cabrera ; Bonnet ; Hemming ; do Amaral ; Key ; Jaczewski ; Riley ; Bodenheimer ;

(b) *Negative Votes* :

None ;

(c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1)* :

Hankó ;

(d) *Voting Papers not returned* :

None.

**6. Declaration of Result of Vote :** On 29th December 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(56)26, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Determination of the date of publication of, and the bibliographical reference for, the name "Taenia globipunctata" Rivolta :** On 23rd May 1957 Mr. Hemming executed the following Minute in which under the authority delegated to him by the International Commission when by its vote on Voting Paper V.P.(O.M.)(56)26 it approved the proposal submitted in paragraph 17(9) of the paper submitted therewith, he gave directions as to the date and bibliographical reference to be assigned to the name

*Taenia globipunctata* Rivolta in the entry on the *Official List of Generic Names in Zoology* relating to the name *Stilesia* Stiles & Hassall, 1893, of which the species so named is the type species :—

**Determination of the date and place of publication of the name “*Taenia globipunctata*” Rivolta (Class Cestoda)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

Now that the vote by the International Commission on Voting Paper V.P.(O.M.)(56)26 has been completed, it is necessary to consider what action I should take in the matter of the determination of the date and place of publication of the name *Taenia globipunctata* Rivolta under the duties in this matter delegated to myself as Secretary by the vote so taken.

2. The need for an immediate decision in regard to the foregoing matter arises, it will be recalled, from the fact that the nominal species cited above is the type species of the genus *Stilesia* Stiles & Hassall, 1893 (Class Cestoda), the name of which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 77*. In consequence, the particulars hitherto missing must be ascertained as a preliminary to the publication in book-form of the first instalment of the foregoing *Official List*, the preparations for which are now well advanced.

3. When in 1922 (*Smithson. misc. Coll.* 73 (No. 1) : 71—73) the generic name *Stilesia* Stiles & Hassall, 1893 (there incorrectly attributed to Railliet, by whom at that date this name had not as yet been published), was placed on the *Official List*, no particulars of any kind were given as to where the name *Taenia globipunctata* Rivolta had first been published. Moreover, in a note inserted in *Opinion 77* at this point my predecessor, the late Dr. C. W. Stiles, stated that he had been unable to verify the bibliographical reference for this name. Dr. Stiles added that Railliet had attributed this name to “1877” but that Monticelli had treated it as having been published in “1874”. The latter date was accepted in *Opinion 77*.

4. When this matter was re-examined in connection with the current preparations for the publication of the *Official List*, a thorough search was made by the Office of the Commission both in the *Zoological Record* and in the literature generally for the title of any paper by Rivolta which appeared either in 1874 or in 1877 or in other years in the same period in which the name *Taenia globipunctata* might have been published. By the autumn of 1956 it had become clear

that the only recorded paper of Rivolta's in which it was at all likely that the above name had been published was a paper entitled "Sopra alcune specie di Tenie pecore e sopra speciali cellule oviforme dei villi del cane e del gutto". This paper was recorded as having been published at Pisa in 1874.

5. Unfortunately, no copy of the above paper appeared to exist in any library in the United Kingdom and it was accordingly impossible to verify by personal inspection whether it was here that the name *Taenia globipunctata* had been published by Rivolta. At this point it was decided therefore to enlist aid from specialists in Italy where it was presumed that a copy of Rivolta's paper would be available. Accordingly, in October 1956 I addressed myself on this subject both to Dr. M. Ricci (*Istituto Superiore di Sanita, Roma*) as a leading specialist in the group and to Professor Enrico Tortonese (*Director of the Museo Civico di Storia Naturale "Giacomo Doria", Genoa*), the Italian Member of the International Commission.

6. The above specialists had not had time to report on the above matter when the stage was reached at which it was necessary that I should prepare for the consideration of the Commission a paper setting out various matters relating to the names of genera of the lower invertebrates which had been placed on the *Official List* in the period up to the end of 1936 on which further action by the Commission was required before the *List* could be published in book-form. In the paper so prepared (which bore the Registered Number Z.N.(S.) 1125) I drew attention to the present problem and invited any member of the Commission who might be in contact with any specialist who could throw light on this subject to assist by asking that specialist to communicate with the Office of the Commission (paragraph 12). At the same time I asked the Commission (paragraph 17(9)) to take note of the present matter and to authorise me as Secretary to insert in the *Official List* the relevant particulars regarding the date and reference for the name *Taenia globipunctata* Rivolta as soon as these had been ascertained, without further reference to the Commission, unless any at present unsuspected difficulties were to be disclosed, in which case the matter should be resubmitted to the Commission for decision.

7. Both Dr. Ricci and Professor Tortonese reported in due course that the name *Taenia globipunctata* had been published (: 3) in 1874 in the paper, the title of which has been given in paragraph 4 above. It there appeared in the defective form *Taenia globi punctata*. This does not, however, invalidate the name, as Rivolta was a binominal author but it is necessary under the *Règles* to run the two parts of the specific name into one, forming the name *globipunctata*. The paper containing this name was published as a pamphlet (consisting of 20 pages and 1 pl.) in 1874 at Pisa by the "Presso lo Stabilimento Gozani,



Via V. Emanuele". The paper discussed above is noticed in a work on Italian helminthology in the period up to the end of 1910 by C. Parona which was published in Novara in 1911. In this work it is stated (: 393) that the above paper by Rivolta was published in the serial publication "*Giorn. Anat. Fisiol. Patol. Anim. Dom.*". No volume number or page reference was given by Parona. It has not been found possible definitely to establish whether in fact Rivolta's paper was published in this serial. The grateful thanks of the Commission are due to Dr. Ricci and Professor Tortonese for supplying the information required in this case.

8. In the light of the information summarised above, I now in virtue of the authority delegated to me by the International Commission by its vote on Voting Paper V.P.(O.M.)(56)26 hereby direct that in the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Stilesia* Stiles & Hassall, 1893, the entry regarding the type species of that genus be made in the following form: *Taenia globipunctata* Rivolta, 1874, *Sopra alcune Spec. Tenie pecora* : 3.

**8. Preparation of the Ruling given in the present "Direction" :**  
On 24th May 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of Points (1) to (7) and of Points (9) to (16) were in full accord with those of the proposal approved by the International Commission by its Vote on Voting Paper V.P.(O.M.)(56)26 and that the terms of Point (8) were in full accord with the directions given by the Secretary in the Minute executed on 23rd May 1957 by the Secretary under the powers expressly delegated to him so to do by the Vote taken by the Commission on the foregoing Voting Paper.

**9. Original References :** The original references for the names placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* are as set out in Section A of Annexe 2 of the paper reproduced in the first paragraph of the present *Direction*. The corresponding references for the names so placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* are as set out in Section B of the same Annexe.

**10.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in

dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**11.** The present *Direction* shall be known as *Direction Seventy-Six (76)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Fourth day of May, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

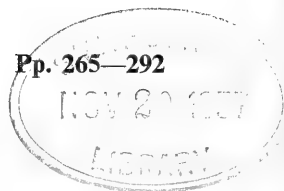
# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.15. Pp. 265—292



## **DIRECTION 77**

Addition to the *Official List of Specific Names in Zoology* (a) of the specific names of thirty-four species belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes, and Annelida, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and (b) of five specific names which are currently treated as senior subjective synonyms of the names of such species

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 77

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts, England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a. M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale, "G. Doria," Genova, Italy*)  
(16th December 1954)

## DIRECTION 77

ADDITION TO THE "OFFICIAL LIST OF SPECIFIC NAMES IN ZOOLOGY" (a) OF THE SPECIFIC NAMES OF THIRTY-FOUR SPECIES BELONGING TO THE PHyla PROTOZOA, COELENTERATA, PLATYHELMINTHES, NEMATHELMINTHES, AND ANNELIDA, EACH OF WHICH IS THE TYPE SPECIES OF A GENUS, THE NAME OF WHICH WAS PLACED ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" IN THE PERIOD UP TO THE END OF 1936, AND (b) OF FIVE SPECIFIC NAMES WHICH ARE CURRENTLY TREATED AS SENIOR SUBJECTIVE SYNONYMS OF THE NAMES OF SUCH SPECIES

**RULING** :—(1) The under-mentioned specific names of species belonging to the Classes severally specified below, each of which is the type species of a genus, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the close of 1936 by the Rulings given in the *Opinions* cited in each case against the name in question are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

### (a) Class Rhizopoda

- (i) *vulgaris* Ehrenberg, [1830], as published in the combination *Arcella vulgaris* (specific name of type species of *Arcella* Ehrenberg, [1830]) (*Opinion* 77) (Name No. 1388) ;
- (ii) *mantelli* Morton, 1833, as published in the combination *Nummulites mantelli* (specific

name of type species of *Lepidocyclina* Gumbel, [1870] (*Opinion* 127) (Name No. 1389) ;

**(b) Class Ciliata**

- (iii) *truncatella* Müller (O.F.), 1773, as published in the combination *Bursaria truncatella* (specific name of type species of *Bursaria* Müller (O.F.), 1773) (*Opinion* 104) (Name No. 1390) ;

**(c) Class Mastigophora**

- (iv) *globator* Linnaeus, 1758, as published in the combination *Volvox globator* (specific name of type species of *Volvox* Linnaeus, 1758) (*Opinion* 75) (Name No. 1391) ;

**(d) Class Sporozoa**

- (v) *falciformis* Eimer, 1870, as published in the combination *Gregarina falciformis* (specific name of type species of *Eimeria* Schneider, 1875) (*Opinion* 104) (Name No. 1392) ;

**(e) Class Neosporidia**

- (vi) *miescherianum* Kühn (J.), 1865, as published in the combination *Synchytrium miescherianum* (specific name of type species<sup>1</sup> of *Sarcocystis* Lankester, 1881) (*Opinion* 104) (Name No. 1393) ;

**(f) Class Hydrozoa**

- (vii) *physalis* Linnaeus, 1758, as published in the combination *Holothuria physalis* (specific name of type species of *Physalia* Lamarck, 1801) (*Opinion* 80) (Name No. 1394) ;

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<sup>1</sup> For the ascription of *Synchytrium miescherianum* Kühn, 1865, as the name for the type species of *Sarcocystis* Lankester, 1880 see Ruling (9) given in *Direction* 76 (: 231) which is being published simultaneously with the present *Direction*.

**(g) Class Anthozoa**

- (viii) *striatum* Fleming, 1828, as published in the combination *Lithostrotion striatum* (specific name of type species of *Lithostrotion* Fleming, 1828 (*Opinion* 117) (Name No. 1395) ;

**(h) Class Cestoda**

- (ix) *expansa* Rudolphi, 1805, as published in the combination *Taenia expansa* (specific name of type species of *Moniezia* Blanchard, 1891) (*Opinion* 77) (Name No. 1396) ;
- (x) *globipunctata* Rivolta, 1874,<sup>2</sup> as published in the combination *Taenia globipunctata* (specific name of type species of *Stilesia* Stiles & Hassall, 1893<sup>2</sup>) (*Opinion* 77) (Name No. 1397) ;
- (xi) *actinioides* Diesing, 1835, as published in the combination *Thysanosoma actinioides* (specific name of type species of *Thysanosoma* Diesing, 1835) (*Opinion* 77) (Name No. 1398) ;
- (xii) *proglottina* Davaine, 1860, as published in the combination *Taenia proglottina* (specific name of type species of *Davainea* Blanchard & Railliet, 1891) (*Opinion* 84) (Name No. 1399) ;
- (xiii) *canina* Linnaeus, 1758, as published in the combination *Taenia canina* (specific name of type species of *Dipylidium* Leuckart, 1863) (*Opinion* 84) (Name No. 1400) ;
- (xiv) *avium* Bloch, 1782, as published in the combination *Ligula avium* (specific name of type

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<sup>2</sup> The date "1874" is here attributed to the name *Taenia globipunctata* Rivolta in accordance with Ruling (8) given in *Direction* 76 (: 230). The generic name *Stilesia* is here attributed to "Stiles & Hassall, 1893" instead of to "Railliet, 1893" in accordance with Ruling (7) in the same *Direction* (: 230).

species of *Ligula* Bloch, 1782) (*Opinion* 104) (for use by specialists who are of the opinion that the taxon so named is distinct from that represented by the nominal species *Fasciola intestinalis* Linnaeus, 1758) (Name No. 1401) ;

### (i) Class Trematoda

- (xv) *appendiculata* Rudolphi, 1802, as published in the combination *Fasciola appendiculata* (specific name of type species of *Hemiurus* Rudolphi, 1809) (*Opinion* 77) (Name No. 1402) ;
- (xvi) *haematobium* Bilharz, 1852, as published in the combination *Distoma haematobium* (specific name of type species of *Schistosoma* Weinland, 1858<sup>3</sup>) (*Opinion* 77) (Name No. 1403) ;
- (xvii) *hepatica* Linnaeus, 1758, as published in the combination *Fasciola hepatica* (specific name of type species of *Fasciola* Linnaeus, 1758) (*Opinion* 84) (Name No. 1404) ;
- (xviii) *heterophyes* Siebold, [1852], as published in the combination *Distomum heterophyes* (specific name of type species of *Heterophyes* Cobbold, 1866) (*Opinion* 84) (Name No. 1405) ;

### (j) Class Nematoda

- (xix) *duodenale* Dubini, 1843, as published in the combination *Agchylostoma* [sic] *duodenale* (specific name of type species of *Ancylostoma* (emend. of *Agchylostoma*<sup>4</sup>) Dubini, 1843) (*Opinion* 66) (Name No. 1406) ;

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<sup>3</sup> The name *Schistosoma* Weinland was found to be invalid after it had been placed on the *Official List of Generic Names in Zoology* and was thereupon validated under the Plenary Powers by the Ruling given in *Opinion* 226 (1954, *Ops. Decls. int. Comm. zool. Nomencl.* 4 : 177—200).

<sup>4</sup> The spelling *Ancylostoma* for the name published as *Agchylostoma* is here accepted as a Valid Emendation in accordance with Ruling (10) given in *Direction* 76 (: 231).



- (xx) *lumbricoides* Linnaeus, 1758, as published in the combination *Ascaris lumbricoides* (specific name of type species of *Ascaris* Linnaeus, 1758) (*Opinion* 66) (Name No. 1407) ;
- (xxi) *spinigerum* Owen, [1837], as published in the combination *Gnathostoma spinigerum* (specific name of type species of *Gnathostoma* Owen, [1837]<sup>5</sup>) (*Opinion* 66) (Name No. 1408) ;
- (xxii) *americana* Stiles, 1902, as published in the combination *Uncinaria americana* (specific name of type species of *Necator* Stiles, 1903<sup>6</sup>) (*Opinion* 66) (Name No. 1409) ;
- (xxiii) *retortaeformis* Zeder, 1800, as published in the combination *Strongylus retortaeformis* (specific name of type species of *Trichostrongylus* Looss, 1905) (*Opinion* 66) (Name No. 1410) ;
- (xxiv) *martis* Gmelin, [1790], as published in the combination *Filaria martis* (specific name of type species of *Filaria* Müller (O.F.), 1787) (*Opinion* 104) (Name No. 1411) ;
- (xxv) *schachtii* Schmidt, 1871, as published in the combination *Heterodera schachtii* (specific name of type species of *Heterodera* Schmidt, 1871) (*Opinion* 104) (Name No. 1412) ;
- (xxvi) *equinus* Müller (O.F.), 1780, as published in the combination *Strongylus equinus* (specific name of type species of *Strongylus* Müller (O.F.), 1780) (*Opinion* 104) (Name No. 1413) ;

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<sup>5</sup> The date "[1837]" is here attributed to the name *Gnathostoma* Owen in accordance with Ruling (4) given in *Direction* 76 (: 230).

<sup>6</sup> The name *Necator* Stiles was found to be invalid after it had been placed on the *Official List of Generic Names in Zoology* and was thereupon validated under the Plenary Powers by the Ruling given in *Opinion* 201 (1954, *Ops. Decls. int. Comm. zool. Nomencl.* 3 : 267—274).

- (xxvii) *trachea* Montagu, 1811, as published in the combination *Fasciola trachea* (specific name of type species of *Syngamus* Siebold, [1852]) (*Opinion* 104) (Name No. 1414) ;

**(k) Class Acanthocephala**

- (xxviii) *echinodiscus* Diesing, 1851, as published in the combination *Echinorhynchus echinodiscus* (specific name of type species of *Gigantorhynchus* Hamann, 1892) (*Opinion* 84) (Name No. 1415) ;

**(l) Class Nematomorpha**

- (xxix) *aquaticus* Linnaeus, 1758, as published in the combination *Gordius aquaticus* (specific name of type species of *Gordius* Linnaeus, 1758) (*Opinion* 66) (Name No. 1416) ;
- (xxx) *varius* Leidy, 1851, as published in the combination *Gordius varius* (specific name of type species of *Paragordius* Camerano, 1897) (*Opinion* 66) (Name No. 1417) ;

**(m) Class Hirudinea**

- (xxxi) *medicinalis* Linnaeus, 1758, as published in the combination *Hirudo medicinalis* (specific name of type species of *Hirudo* Linnaeus, 1758) (*Opinion* 75) (Name No. 1418) ;
- (xxxii) *nilotica* Savigny, 1822, as published in the combination *Bdella nilotica* (specific name of type species of *Limnatis* Moquin-Tandon, 1827) (*Opinion* 104) (Name No. 1419) ;
- (xxxiii) *ceylanica* Blainville, [June] 1827, as published in the combination *Hirudo ceylanica* (specific name of type species of *Haemadipsa* Tennent, 1859) (*Opinion* 104) (Name No. 1420) ;

**(n) Class Chaetopoda**

- (xxxiv) *albidus* Henle, 1837, as published in the combination *Enchytraeus albidus* (specific name of type species of *Enchytraeus* Henle, 1837) (*Opinion* 104) (Name No. 1421).

(2) The under-mentioned specific names, which are currently regarded as senior subjective synonyms of the specific names of the type species of genera, the names of which were placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 by the Rulings given in the *Opinions* severally specified below, are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

**(a) Class Mastigophora**

- (i) *rotatoria* Mayer (A.F.J.C.), [July]<sup>7</sup> 1843, as published in the combination *Amoeba rotatoria* (*Opinion* 95) (Name No. 1422) ;

**(b) Class Cestoda**

- (ii) *intestinalis* Linnaeus, 1758, as published in the combination *Fasciola intestinalis* (*Opinion* 104) (Name No. 1423) ;

**(c) Class Trematoda**

- (iii) *aegyptiacum* Cobbold, 1876, as published in the combination *Diplostomum aegyptiacum* (*Opinion* 84) (Name No. 1424) ;
- (iv) *dendriticum* Rudolphi, 1819, as published in the combination *Distoma dendriticum* (*Opinion* 77) (Name No. 1425) ;

<sup>7</sup> The notation "[July]" is inserted here before the date "1843" for the name *Amoeba rotatoria* Mayer in accordance with Ruling (6) given in *Direction* 76 (see page 230 of the present volume).

**(d) Class Nematoda**

- (v) *stercoralis* Bavay, 1876, as published in the combination *Rhabditis stercoralis* (*Opinion* 66) (Name No. 1426).

I. THE SUBJECT MATTER OF THE PRESENT  
“ DIRECTION ”

The present *Direction* completes the eighth and concluding instalment of *Directions* embodying the result of the review of the entries on the *Official List of Generic Names in Zoology* made by Rulings given in *Opinions* published up to the end of 1936 undertaken by the International Commission in accordance with a General Directive issued to it by the Thirteenth International Congress of Zoology. In the present *Direction* a review is made of the entries on the *Official List* made in the foregoing period in respect of the names of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes, and Annelida and additions are made to the *Official List of Specific Names in Zoology* in compliance with the General Directive referred to above. The proposals upon which the decisions embodied in the present *Direction* were based were submitted by the Secretary on 16th November 1956 in the following paper :—

**Proposed addition to the “ Official List of Specific Names in Zoology ”**

- (a) of the specific names of thirty-four species belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes, and Annelida, each of which is the type species of a genus, the name of which was placed on the “ Official List of Generic Names in Zoology ” in the period up to the end of 1936 and (b) of four specific names which are currently treated as senior subjective synonyms of the names of such species

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper contains the eighth and concluding instalment of proposals for giving effect to the General Directive issued to the

International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, that in every case where the specific name of the type species of a genus, the name of which had been placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, is the oldest available name for the species concerned, that name shall be placed on the *Official List of Specific Names in Zoology* and that in other cases the specific name currently regarded as the oldest available subjective synonym of that name shall be similarly placed on that *List*. The immediately preceding instalment, which completed the consideration of the foregoing problem in relation to the names of the type species of genera belonging to the Phyla Mollusca, Brachiopoda, Echinodermata and Chordata (Z.N.(S.) 1124), was submitted to the International Commission on 28th August 1956 with Voting Paper V.P.(O.M.)(56)21.<sup>8</sup>

2. The proposals now submitted relate to the names of the type species of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes and Annelida. The number of names of genera belonging to the foregoing Phyla, the names of which were placed on the *Official List* in the period under review was forty-nine. These names were placed on the *Official List* by Rulings given in the following *Opinions*: *Opinion* 66 (nine names); *Opinion* 75 (three names); *Opinion* 77 (nine names); *Opinion* 80 (one name); *Opinion* 84 (nine names); *Opinion* 95 (two names); *Opinion* 104 (fourteen names); *Opinions* 117 and 127 (one name each).

3. In four cases it has already been found necessary to use the Commission's Plenary Powers to validate, or to correct, the entries made on the *Official List of Generic Names in Zoology* in the *Opinions* referred to above and in each of these cases the opportunity was taken to place on the *Official List of Specific Names in Zoology* the specific name of the type species of the genus concerned. The specific names concerned are the following:—

- (1) *solium* Linnaeus, 1758, as published in the combination *Taenia solium*, placed on the *Official List* with the Name Number 95 by the Ruling given in *Opinion* 272.

Separate action was required in this case because the entry on the *Official List of Generic Names in Zoology* of the above species as the type species of *Taenia* Linnaeus, 1758, by the Ruling given in *Opinion* 84 was found to be incorrect and could only be regularised by the use of the Commission's Plenary Powers.

<sup>8</sup> The decision taken by the International Commission on the Voting Paper here referred to has since been embodied in *Direction* 73 (1957, *Ops. Dæcls. int. Comm. zool. Nomencl.* 1(E) : 193—214)

- (2) *falciparum* Welch, 1897, as published in the combination *Haematozoon falciparum*, placed on the *Official List* with the Name Number 112 by the Ruling given in *Opinion* 283,  
and
- (3) *malariae* Feletti & Grassi, 1889, as published in the combination *Haemamoeba malariae*, placed on the *Official List* with the Name Number 113 by the Ruling given in the foregoing *Opinion*.

Investigations showed that the entries on the *Official List* in respect of the generic names *Laverania* Feletti & Grassi, 1889, and *Plasmodium* Marchiafava & Celli, 1885, made by the Ruling given in *Opinion* 104 were incorrect in almost every particular. In order to give valid force to the entries on the *Official List* which the Commission had attempted to make by the Ruling given in the above *Opinion*, it was found necessary in *Opinion* 283, to have extensive resort to the Commission's Plenary Powers. As part of the settlement so effected the original entries on the *Official List* were replaced by revised entries in which, *inter alia*, the above species were designated under the Plenary Powers to be the type species of *Laverania* Feletti & Grassi and *Plasmodium* Marchiafava & Celli respectively.

- (4) *blattae* Bütschli, 1878, as published in the combination *Amoeba blattae*, placed on the *Official List* with the Name Number 176 by the Ruling given in *Opinion* 312

In this case action was required to correct the Ruling given in *Opinion* 95, not because of any defect in the entry therein relating to the above name (which was there correctly stated to be the name of the type species of *Endamoeba* Leidy, 1879), but in order to correct the erroneous rejection by that Ruling of *Entamoeba* Casagrandi & Barbagallo, 1895, as a junior homonym of *Endamoeba* Leidy, 1879.

4. In one other case a generic name belonging to one of the Phyla with which the present paper is concerned has been the subject of a later Ruling by the Commission, this action having been rendered necessary by reason of the fact that the generic name in question (*Schistosoma* Weinland, 1859) was a junior objective synonym of a long-overlooked name of older date (*Bilharzia* Meckel von Hemsbach, 1856) which it was then necessary for the Commission to suppress under the Plenary Powers in order to validate the entry of the name *Schistosoma* Weinland on the *Official List*. In the *Opinion* (*Opinion* 226) in which the foregoing action was taken the Commission (contrary to the procedure followed in the *Opinions* cited in paragraph 3 above) did not place the specific name of the type species of *Schistosoma* Weinland on the *Official List of Specific Names in Zoology*.

Accordingly, a recommendation in the foregoing sense is included in the proposals submitted with the present paper.

5. The investigations carried out by the Office of the Commission show that in the case of seven of the genera falling in the present group further action by the Commission is required before the specific names of the type species of these genera can be placed on the *Official List of Specific Names in Zoology*. In consequence these names have been postponed for further consideration. The names in question are the following :—

(1) *Hydra* Linnaeus, 1758 (Z.N.(S.) 561)

The name *Hydra* Linnaeus, 1758 (Class Hydrozoa) was placed on the *Official List of Generic Names in Zoology* by a Ruling given in *Opinion 77*. The difficulty in this case arises from doubts as to the interpretation of the nominal species which is the type species of this genus.

(2) *Hymenolepis* Weinland, 1858 (Z.N.(S.) 1156)

The name *Hymenolepis* Weinland, 1858 (Class Cestoda) was placed on the *Official List* by the Ruling given in *Opinion 77*. The nominal species which apparently is currently accepted as the type species of this genus is not the one designated as such when the genus was first established by Weinland.

(3) and (4) *Anoplocephala* Blanchard, 1848, and *Echinococcus* Rudolphi, 1801 (Z.N.(S.) 1157)

The names *Anoplocephala* Blanchard, 1848, and *Echinococcus* Rudolphi, 1801, are both names of genera belonging to the Class Cestoda. The former was placed on the *Official List* by a Ruling given in *Opinion 77*, the latter by a Ruling given in *Opinion 84*. The difficulty in each of these cases is the same, namely that the specific name of the type species was published in a non-binominal work, Goeze's *Versuch* of 1782.

(5) *Dracunculus* Reichard, 1759 (Z.N.(S.) 553)

The name *Dracunculus* Reichard, 1759 (Class Nematoda) was placed on the *Official List* by a Ruling given in *Opinion 66*. The difficulty in this case arises from the fact that the work in which this name was first published is non-binominal. In order to secure the position of this name it will therefore be necessary for the Commission to validate it either from Reichard, 1759, or from some later author and work.<sup>9</sup>

<sup>9</sup> An application in regard to the generic name *Dracunculus* Reichard has since been published in the *Bulletin of Zoological Nomenclature* (Hemming, 1957, *Bull. zool. Nomencl.* 13 : 154—159).

(6) *Rhabditis* Dujardin, [1844] (Z.N.(S.) 937)

The name *Rhabditis* Dujardin, [1844] (Class Nematoda) was placed on the *Official List* by a Ruling given in *Opinion 77*. The identity of the taxon represented by the type species of this genus is at present uncertain and requires further investigation.

(7) *Lumbricus* Linnaeus, 1758 (Z.N.(S.) 272)

The name *Lumbricus* Linnaeus, 1758 (Class Chaetopoda) was placed on the *Official List* by a Ruling given in *Opinion 77*. The difficulty in this case arises from the fact that the Linnean species which is the type species of this genus is, it is agreed by specialists, a composite, and it has not yet been possible to trace by whom, when, and where, an effective First Reviser selection was made for this nominal species. In consequence, it has not been possible to determine whether current practice is in harmony with the provisions of the *Règles*. (In so far as some specialists appear to have dropped altogether the use of the specific name *terrestris*, that action clearly calls for consideration by the Commission, for it would be quite inappropriate to have on the *Official List* a generic name (*Lumbricus*) the specific name (*terrestris*) of the type species of which is a discarded *nomen dubium*.)

(PARENTHETICAL NOTE TO COMMISSIONERS: *If any member of the Commission possesses any first-hand knowledge in regard to the problems involved in connection with any of the names discussed above or is in touch with any specialist who possesses such knowledge, it will be a great help if he will, in the first case, communicate to this Office his information in regard to the name in question or, in the second case, ask any colleague who may possess such knowledge to write to this Office on the subject. As all Commissioners will agree, it is a grave embarrassment to the Commission as a body that it is still unable to comply with the widespread desire of zoologists in many parts of the world to arrange for the publication of the "Official List" in book-form, by reason solely of the existence of unsolved problems in regard to entries on the "List" made with insufficient care in the period before the close of 1936.*)

6. From the particulars given in paragraphs 3 and 5 above it will be seen that of the forty-nine names of genera falling within the group dealt with in the present paper, the specific names of the type species of four of the genera concerned have already been placed on the *Official List of Specific Names in Zoology* (paragraph 3), while in the case of seven other names unresolved difficulties of various kinds make it impossible to submit recommendations at the present time for the addition to the foregoing *Official List* of the specific names of the respective type species of the genera concerned (paragraph 5). Accordingly, the number of names on which recommendations are now submitted is reduced to thirty-eight.



7. As on previous similar occasions the search of the literature undertaken by the Office of the Commission for the purpose of checking and, where necessary, completing, the entries on the *Official List* in the period under review has disclosed a number of problems which require to be brought to the attention of the International Commission. These problems are discussed in a paper numbered Z.N.(S.) 1125, which is being submitted to the Commission with Voting Paper V.P.(O.M.)(56) 26, simultaneously with the present paper.<sup>10</sup>

8. The elucidation of the problems involved in the present group of names has been rendered possible by the co-operation and assistance afforded by a number of specialists. To all of these the grateful thanks of the International Commission are due. The specialists who have assisted in this way, together with particulars (a) of their present appointments or of the appointments which they held at the time when consultations took place and (b) of the Classes on the names of genera of which assistance has been afforded, are the following :—

- H. A. Baylis (*British Museum (Natural History), London*) (Class Nematoda)
- L. Cernovitov (*Reading, England*) (Class Chaetopoda)
- Ellsworth C. Dougherty (*University of California, Berkeley, California, U.S.A.*) (Class Nematoda)
- R. F. Ewer (*Natal University College, Pietermaritzburg, South Africa*) (Class Hydrozoa)
- H. Munro Fox (*Bedford College, University of London*) (Class Chaetopoda)
- A. Gillard (*Rijkslandbouwhogeschool, Ghent, Belgium*) (Class Nematoda)
- E. M. Hering (*Humboldt-Universität zu Berlin*) (Class Protozoa)
- C. A. Hoare (*The Wellcome Laboratories of Tropical Medicine, London*) (Class Protozoa)
- Karl Jordan (*British Museum (Natural History), The Zoological Museum, Tring, Herts, England*) (Class Hirudinea)
- R. T. Leiper (*Institute of Animal Parasitology, St. Albans, England*) (Class Nematoda)
- S. Prudhoe (*British Museum (Natural History), London*) (Class Trematoda)

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<sup>10</sup> The paper here referred to has since been reproduced in the first paragraph of *Direction* 76 (: 239—258) which is being published simultaneously with the present *Direction*.

W. J. Rees (*British Museum (Natural History), London*) (Class Hydrozoa)

M. Ricci (*University of Rome, Italy*) (Class Cestoda)

A. K. Totton (*British Museum (Natural History), London*) (Class Hydrozoa).

9. In submitting to the International Commission the present paper which is the concluding portion of the eighth instalment of, and the sixteenth paper arising out of, the general review of the entries made on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, I wish to express my special gratitude to Miss D. N. Noakes, B.Sc., who was appointed in 1954 to take charge of this work under my directions and to whom I am greatly indebted for the skill, accuracy and enthusiasm with which she has carried out the long and often difficult investigations involved.

10. Within the field covered by the present paper the search of the literature shows that in thirty-four cases the specific name of the type species of the genus concerned is not only an available name but is in addition accepted as the oldest such name for the species concerned. These names are enumerated in Annexe 1 to the present paper. In three of the four remaining cases the specific name of the type species of the genus in question is also an available name but is currently treated by specialists as a junior subjective synonym of another name. In the fourth case the specific name of the type species of the genus concerned is invalid, being a junior primary homonym of an identical name previously published for a different taxon. Particulars of these four cases are given in Annexe 2 to the present paper.

11. It is recommended that in accordance with the General Directive referred to in the first paragraph of the present paper the International Commission on Zoological Nomenclature should place on the *Official List of Specific Names in Zoology* :—

- (1) the thirty-four specific names enumerated in Column (1) of Annexe 1, each of which (a) is the specific name of the type species of a genus belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes or Annelida, the name of which was placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 and (b) is the oldest available name for the species concerned ;
- (2) the four specific names enumerated in Column (1) of Annexe 2 each of which (a) is currently accepted by specialists as a senior subjective synonym of the specific name of the type species of a genus (i) which belongs to one or other of the Phyla specified in (1) above, and (ii) the name of which was placed on the

foregoing *Official List* in the period referred to above, and (b) is considered to be the oldest available such synonym applicable to the species concerned.

## ANNEXE 1

Specific names of thirty-four nominal species belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nemathelminthes, and Annelida, each of which (a) is the specific name of the type species of a genus, the name of which was placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936, and (b) is the oldest available name for the species concerned

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Combination in which name specified in Col. 1 was originally published</i> | <i>Name of genus of which species specified in Col. 1 is the type species</i> |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                           | (3)                                                                           |

## CLASS RHIZOPODA

## "Opinion" 77

|                                   |                         |                                  |
|-----------------------------------|-------------------------|----------------------------------|
| <i>vulgaris</i> Ehrenberg, [1830] | <i>Arcella vulgaris</i> | <i>Arcella</i> Ehrenberg, [1830] |
|-----------------------------------|-------------------------|----------------------------------|

## "Opinion" 127

|                               |                            |                                     |
|-------------------------------|----------------------------|-------------------------------------|
| <i>mantelli</i> Morton, 1833. | <i>Nummulites mantelli</i> | <i>Lepidocyclina</i> Gumbel, [1870] |
|-------------------------------|----------------------------|-------------------------------------|

## CLASS CILIATA

## "Opinion" 104

|                                       |                             |                                     |
|---------------------------------------|-----------------------------|-------------------------------------|
| <i>truncatella</i> Müller (O.F.) 1773 | <i>Bursaria truncatella</i> | <i>Bursaria</i> Müller (O.F.), 1773 |
|---------------------------------------|-----------------------------|-------------------------------------|

## CLASS MASTIGOPHORA

## "Opinion" 75

|                                |                        |                              |
|--------------------------------|------------------------|------------------------------|
| <i>globator</i> Linnaeus, 1758 | <i>Volvox globator</i> | <i>Volvox</i> Linnaeus, 1758 |
|--------------------------------|------------------------|------------------------------|

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name specified<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                                       | (3)                                                                                       |
| <b>CLASS SPOROZOA</b>                                                                                              |                                                                                           |                                                                                           |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>falciformis</i> Eimer,<br>1870                                                                                  | <i>Gregarina falciformis</i>                                                              | <i>Eimeria</i> Schneider,<br>1875                                                         |
| <b>CLASS NEOSPORIDIA</b>                                                                                           |                                                                                           |                                                                                           |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>miescherianum</i> Kühn<br>(J.), 1865                                                                            | <i>Synchytrium<br/>miescherianum</i>                                                      | <i>Sarcocystis</i><br>Lankester, 1881                                                     |
| <b>CLASS HYDROZOA</b>                                                                                              |                                                                                           |                                                                                           |
| <b>"Opinion" 80</b>                                                                                                |                                                                                           |                                                                                           |
| <i>physalis</i> Linnaeus,<br>1758                                                                                  | <i>Holothuria physalis</i>                                                                | <i>Physalia</i> Lamarck,<br>1801                                                          |
| <b>CLASS ANTHOZOA</b>                                                                                              |                                                                                           |                                                                                           |
| <b>"Opinion" 117</b>                                                                                               |                                                                                           |                                                                                           |
| <i>striatum</i> Fleming,<br>1828                                                                                   | <i>Lithostrotion striatum</i>                                                             | <i>Lithostrotion</i><br>Fleming, 1828                                                     |
| <b>CLASS CESTODA</b>                                                                                               |                                                                                           |                                                                                           |
| <b>"Opinion" 77</b>                                                                                                |                                                                                           |                                                                                           |
| <i>expansa</i> Rudolphi,<br>1805                                                                                   | <i>Taenia expansa</i>                                                                     | <i>Moniezia</i> Blanchard,<br>1891                                                        |
| <i>globipunctata</i> Rivolta,<br>1874                                                                              | <i>Taenia globipunctata</i>                                                               | <i>Stilesia</i> Stiles &<br>Hassall, 1893                                                 |
| <i>actinioides</i> Diesing,<br>1835                                                                                | <i>Thysanosoma<br/>actinioides</i>                                                        | <i>Thysanosoma</i><br>Diesing, 1835                                                       |

*Specific name  
proposed to be  
placed on the  
"Official List of  
Specific Names in  
Zoology"*

(1)

*Combination in  
which name specified  
in Col. 1 was  
originally published*

(2)

*Name of genus of  
which species specified  
in Col. 1 is the  
type species*

(3)

**"Opinion" 84**

|                                     |                           |                                               |
|-------------------------------------|---------------------------|-----------------------------------------------|
| <i>proglottina</i> Davaine,<br>1860 | <i>Taenia proglottina</i> | <i>Davainea</i> Blanchard<br>& Railliet, 1891 |
| <i>canina</i> Linnaeus, 1758        | <i>Taenia canina</i>      | <i>Dipylidium</i><br>Leuckart, 1863           |

**"Opinion" 104**

|                          |                     |                           |
|--------------------------|---------------------|---------------------------|
| <i>avium</i> Bloch, 1782 | <i>Ligula avium</i> | <i>Ligula</i> Bloch, 1782 |
|--------------------------|---------------------|---------------------------|

## CLASS TREMOTODA

**"Opinion" 77**

|                                        |                                         |                                      |
|----------------------------------------|-----------------------------------------|--------------------------------------|
| <i>appendiculata</i><br>Rudolphi, 1802 | <i>Fasciola</i><br><i>appendiculata</i> | <i>Hemiurus</i><br>Rudolphi, 1809    |
| <i>haematobium</i> Bilharz,<br>1852    | <i>Distoma haematobium</i>              | <i>Schistosoma</i><br>Weinland, 1858 |

**"Opinion" 84**

|                                       |                             |                                     |
|---------------------------------------|-----------------------------|-------------------------------------|
| <i>hepatica</i> Linnaeus,<br>1758     | <i>Fasciola hepatica</i>    | <i>Fasciola</i> Linnaeus,<br>1758   |
| <i>heterophyes</i> Siebold,<br>[1852] | <i>Distomum heterophyes</i> | <i>Heterophyes</i><br>Cobbold, 1866 |

## CLASS NEMATODA

**"Opinion" 66**

|                                       |                                               |                                    |
|---------------------------------------|-----------------------------------------------|------------------------------------|
| <i>duodenale</i> Dubini,<br>1843      | <i>Agchylostoma</i> [sic]<br><i>duodenale</i> | <i>Ancylostoma</i><br>Dubini, 1843 |
| <i>lumbricoides</i> Linnaeus,<br>1758 | <i>Ascaris lumbricoides</i>                   | <i>Ascaris</i> Linnaeus,<br>1758   |
| <i>spinigerum</i> Owen, [1837]        | <i>Gnathostoma</i><br><i>spinigerum</i>       | <i>Gnathostoma</i> Owen,<br>[1837] |

| <i>Specific name<br/>proposed to be<br/>placed on the<br/>"Official List of<br/>Specific Names in<br/>Zoology"</i> | <i>Combination in<br/>which name specified<br/>in Col. 1 was<br/>originally published</i> | <i>Name of genus of<br/>which species specified<br/>in Col. 1 is the<br/>type species</i> |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| (1)                                                                                                                | (2)                                                                                       | (3)                                                                                       |
| <i>americana</i> Stiles, 1902                                                                                      | <i>Uncinaria americana</i>                                                                | <i>Necator</i> Stiles, 1903                                                               |
| <i>retortaeformis</i> Zeder,<br>1800                                                                               | <i>Strongylus<br/>retortaeformis</i>                                                      | <i>Trichostrongylus</i><br>Looss, 1905                                                    |
| <b>"Opinion" 104</b>                                                                                               |                                                                                           |                                                                                           |
| <i>martis</i> Gmelin, [1790]                                                                                       | <i>Filaria martis</i>                                                                     | <i>Filaria</i> Müller<br>(O.F.), 1787                                                     |
| <i>schachtii</i> Schmidt,<br>1871                                                                                  | <i>Heterodera<br/>schachtii</i>                                                           | <i>Heterodera</i> Schmidt,<br>1871                                                        |
| <i>equinus</i> Müller (O.F.),<br>1780                                                                              | <i>Strongylus equinus</i>                                                                 | <i>Strongylus</i> Müller<br>(O.F.), 1780                                                  |
| <i>trachea</i> Montagu, 1811                                                                                       | <i>Fasciola trachea</i>                                                                   | <i>Syngamus</i> Siebold,<br>[1852]                                                        |

## CLASS ACANTHOCEPHALA

**"Opinion" 84**

|                                      |                                        |                                        |
|--------------------------------------|----------------------------------------|----------------------------------------|
| <i>echinodiscus</i> Diesing,<br>1851 | <i>Echinorhynchus<br/>echinodiscus</i> | <i>Gigantorhynchus</i><br>Hamann, 1892 |
|--------------------------------------|----------------------------------------|----------------------------------------|

## CLASS NEMATOMORPHA

**"Opinion" 66**

|                                    |                          |                                      |
|------------------------------------|--------------------------|--------------------------------------|
| <i>aquaticus</i> Linnaeus,<br>1758 | <i>Gordius aquaticus</i> | <i>Gordius</i> Linnaeus,<br>1758     |
| <i>varius</i> Leidy, 1851          | <i>Gordius varius</i>    | <i>Paragordius</i><br>Camerano, 1897 |

## CLASS HIRUDINEA

**"Opinion" 75**

|                                      |                           |                                 |
|--------------------------------------|---------------------------|---------------------------------|
| <i>medicinalis</i> Linnaeus,<br>1758 | <i>Hirudo medicinalis</i> | <i>Hirudo</i> Linnaeus,<br>1758 |
|--------------------------------------|---------------------------|---------------------------------|

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Combination in which name specified in Col. 1 was originally published</i> | <i>Name of genus of which species specified in Col. 1 is the type species</i> |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                           | (3)                                                                           |
| <b>"Opinion" 104</b>                                                                           |                                                                               |                                                                               |
| <i>nilotica</i> Savigny, 1822                                                                  | <i>Bdella nilotica</i>                                                        | <i>Limnatis</i> Moquin-Tandon, 1827                                           |
| <i>ceylanica</i> Blainville, [June] 1827                                                       | <i>Hirudo ceylanica</i>                                                       | <i>Haemadipsa</i> Tennent, 1859                                               |

## CLASS CHAETOPODA

**"Opinion" 104**

|                            |                            |                                |
|----------------------------|----------------------------|--------------------------------|
| <i>albidus</i> Henle, 1837 | <i>Enchytraeus albidus</i> | <i>Enchytraeus</i> Henle, 1837 |
|----------------------------|----------------------------|--------------------------------|

## ANNEXE 2

The specific names of four nominal species each of which is subjectively identified with a nominal species which is the type species of a genus belonging to the Phyla Protozoa, Platyhelminthes and Nemathelminthes, the name of which was placed on the "Official List of Generic Names in Zoology" in the period up to the end of 1936

| <i>Specific name proposed to be placed on the "Official List of Specific Names in Zoology"</i> | <i>Remarks<br/>(not for inclusion in the entry to be made on the "Official List")</i> |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| (1)                                                                                            | (2)                                                                                   |
|                                                                                                |                                                                                       |

## CLASS MASTIGOPHORA

|                                                                                              |                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>rotatoria</i> Mayer, [July] 1843, as published in the combination <i>Amoeba rotatoria</i> | a senior subjective synonym of <i>sanguinis</i> Gruby, 1843, as published in the combination <i>Trypanosoma sanguinis</i> , the specific name of the type species of <i>Trypanosoma</i> Gruby, 1843 ( <i>Opinion</i> 95) |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

*Specific name proposed to be placed on the "Official List of Specific Names in Zoology"*

(1)

*Remarks (not for inclusion in the entry to be made in the "Official List")*

(2)

## CLASS TREMATODA

- aegyptiacum* Cobbold, 1876, as published in the combination *Diplostomum aegyptiacum* a senior subjective synonym of *sonsinoi* Cobbold, 1877, as published in the combination *Gastrodiscus sonsinoi*, the specific name of the type species of *Gastrodiscus* Cobbold, 1877 (*Opinion* 84)
- dendriticum* Rudolphi, 1819, as published in the combination *Distoma dendriticum* a senior subjective synonym of *lanceatum* Stiles & Hassall, 1896, as published in the combination *Dicrocoelium lanceatum* (a substitute name for *lanceolata* Rudolphi, 1803, as published in the combination *Fasciola lanceolata* (the specific name of the type species of *Dicrocoelium* Dujardin, [1844]) which is a junior primary homonym of *Fasciola lanceolata* Schrank, 1790)

## CLASS NEMATODA

- stercoralis* Bavay, 1876, as published in the combination *Rhabditis stercoralis* a senior subjective synonym of *intestinalis* Bavay, 1877, as published in the combination *Anguillula intestinalis*, the specific name of the type species of *Strongyloides* Grassi, 1879 (*Opinion* 66)

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper, the question of placing on the *Official List of Specific Names in Zoology* the specific names of the type



species of genera belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes, and Annelida placed on the *Official List of Generic Names in Zoology* by Rulings given in *Opinions* published in the period up to the end of 1936 was allotted the Registered Number Z.N.(S.) 1126.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(56)27 :** On 16th November 1956 a Voting Paper (V.P.(O.M.)(56)27) was issued in which each Member of the Commission was asked (1) to state whether he agreed "that, in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress on Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, the names of species belonging to the Phyla Protozoa, Coelenterata, Platyhelminthes, Nematelminthes and Annelida referred to in Points (1) and (2) of paragraph 11 of the paper bearing the Registered Number Z.N.(S.) 1126 by the Secretary submitted simultaneously with the present Voting Paper [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] be placed on the *Official List of Specific Names in Zoology* as there recommended", and (2) if he did not so agree as regards any item, to indicate that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period would normally have closed on 16th December 1956. In view, however, of the possibility of delays in overseas mails consequent upon the abnormally heavy traffic at Christmas time, the Secretary on 16th December 1956 executed a Minute extending the Prescribed Voting Period on the above Voting Paper to 28th December 1956.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(56)27 :**  
 At the close of the Prescribed Voting Period, extended as specified in paragraph 4 above, the state of the voting on V.P.(O.M.)(56)27 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Mayr ; Hering ; Vokes ; Lemche ; Esaki ; Kühnelt ;  
 Holthuis ; Tortonese ; Bradley (J.C.) ; Mertens ;  
 Prantl ; Miller ; Dymond ; Stoll ; Boschma ;  
 Sylvester-Bradley ; Cabrera ; Bonnet ; Hemming ;  
 do Amaral ; Key ; Jaczewski ; Riley ; Bodenheimer ;

(b) *Negative Votes :*

None ;

(c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

(d) *Voting Papers not returned :*

None.

**6. Declaration of Result of Vote :** On 29th December 1956, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(56)27, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

7. Direction as to the insertion of an endorsement of the entry on the "Official List of Specific Names in Zoology" to be made in relation to the specific name "avium" Bloch, 1782, as published in the combination "Ligula avium" and matters consequential thereon : On 17th June 1957 Mr. Hemming, as Secretary, executed the following Minute directing that for the reasons there set out an endorsement in the terms specified in paragraph 5 thereof be made in the entry in relation to the specific name *avium* Bloch, 1782, as published in the combination *Ligula avium*, to be inserted in the *Official List of Specific Names in Zoology* and the other action there specified taken, as part of the decision taken by the International Commission by its vote on Voting Paper V.P.(O.M.)(56)27 :—

The specific name "avium" Bloch, 1782 ("Ligula") and the specific name "intestinalis" Linnaeus, 1758 ("Fasciola") (Class Cestoda)

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

When returning his completed copy of Voting Paper V.P.(O.M.)(56) 27, Professor Tadeusz Jaczewski (*Warsaw*) informed the Office of the Commission that Professor Dr. E. Grabda had raised with him a question relating to the specific name *avium* Bloch, 1782, as published in the combination *Ligula avium*, the specific name of the type species of the genus *Ligula* Bloch, 1782 (Class Cestoda), one of the names dealt with in the foregoing Voting Paper.

2. In this connection Professor Grabda had observed that it was still a matter of discussion among specialists whether the older name *Fasciola intestinalis* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 649) applied to the same taxon as that represented by the nominal species *Ligula avium* Bloch, 1782.

3. Upon the receipt of Professor Jaczewski's note reporting the information furnished by Professor Grabda, I consulted Dr. Benjamin Schwartz (*U.S. Department of Agriculture, Agricultural Research Service, Animal Disease and Parasite Research Division, Beltsville, Maryland, U.S.A.*) who in response to my request for advice has very kindly furnished the following additional information (*in litt.*, 13th June 1957) :—

I must agree with Professor Grabda that many, in fact, most helminthologists accept the view that the two names [i.e. *avium* Bloch and *intestinalis* Linnaeus] are synonymous and that the

correct name of the tapeworm in question is therefore *Ligula intestinalis* (Linnaeus, 1758), Gmelin, 1790<sup>11</sup>. The confusion regarding these two names stemmed from the fact that Bloch and Goeze, who wrote on this species in the XVIIIth century, separated the two forms, which occur, respectively, in the body cavity of fishes and in the intestine of fish-eating birds, on the basis of such characters as localization within the host, length, width, state of contraction, etc. Actually, however, Bloch expressed the view at one time, according to a letter which he wrote to Goeze, that the worm found in fishes was the same as his *Ligula avium*, 1782, and he assumed moreover that birds became infected by eating parasitized fish. According to Goeze, Bloch later changed his view, not because he carried out feeding experiments with these parasites, but for the reasons previously given in this communication.

Most heminthologists believe, now that the facts in the life history of this tapeworm are well known, that *Ligula intestinalis* is the only species of the genus. The name *Ligula avium* is therefore a synonym, because it was used by Bloch to designate the sexually mature worm of which *Ligula intestinalis* (Linnaeus) is an incompletely developed form. The earlier larval form, as you know, lives in copepods.

4. In the circumstances it appears to me that, while adhering to the decision taken by the Commission on Voting Paper V.P.(O.M.)(56)27 that the specific name *avium* Bloch, 1782, as published in the combination *Ligula avium*, be placed on the *Official List of Specific Names in Zoology*, the proper course in this, as in similar previous cases, will be to apply at the specific-name level the procedure laid down by the Thirteenth International Congress of Zoology, Paris, 1948, for use in analogous cases at the generic-name level, namely (a) to add to the entry on the *Official List* relating to the specific name *avium* an endorsement that it is placed on the *List* for use by any author who on taxonomic grounds may take the view that the taxon represented by the nominal species *Ligula avium* Bloch, 1782, is different from that represented by the nominal species *Fasciola intestinalis* Linnaeus, 1758, and (b) to place on the same *List* the specific name *intestinalis* Linnaeus, 1758, as published in the combination *Fasciola intestinalis*.

5. Accordingly, as Secretary, I hereby direct that in the Ruling to be incorporated in the *Direction* giving effect to the vote taken by the Commission on Voting Paper V.P.(O.M.)(56)27 there be added

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<sup>11</sup> The reference here to Gmelin is to the fuller treatment of this nominal species by Gmelin in [1791] (*in* Linnaeus, *Syst. Nat.* (ed. 13) 1(6) : 3042) under the name *Ligula intestinalis*.

to the entry relating to the specific name *avium* Bloch, 1782, as published in the combination *Ligula avium*, to be made on the *Official List of Specific Names in Zoology* an endorsement in the terms specified in paragraph 4 of the present Minute and that at the same time the specific name *intestinalis* Linnaeus, 1758, as published in the combination *Fasciola intestinalis* be entered on the said *Official List*.

**8. Preparation of the Ruling given in the present " Direction " :**

On 17th June 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission by its vote on Voting Paper V.P.(O.M.)(56)27, subject to the drafting amendment relating to the form of the entry to be made on the *Official List of Specific Names in Zoology* in relation to the specific name *avium* Bloch, 1782, as published in the combination *Ligula avium*, as specified in the Minute executed by the Secretary on 17th June 1957, the text of which has been reproduced in paragraph 7 of the present *Direction*.

**9. Original References :** The original references for the specific names placed on the *Official List of Specific Names in Zoology* by the Ruling given in the present *Direction* have already been noted in connection with the *Official List of Generic Names in Zoology*, the nominal species bearing the names concerned being either (i) the type species of genera, the names of which have been inscribed on that *List* or (ii), in four cases, nominal species which are in each case currently subjectively identified as representing the same taxon as that represented by a nominal species which is the type species of such a genus.

10. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

11. The present *Direction* shall be known as *Direction* Seventy-Seven (77) of the International Commission on Zoological Nomenclature.

DONE in London, this Seventeenth day of June Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

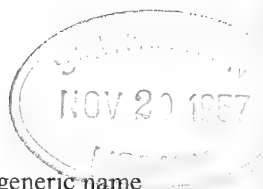
# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

**VOLUME 1. SECTION E. Part E.16. Pp. 293—304**

## **DIRECTION 78**



Validation under the Plenary Powers of the generic name  
*Daira* de Haan, [1833] (Class Crustacea, Order Decapoda)  
(validation of an entry on the *Official List of Generic  
Names in Zoology* made by the Ruling given in *Opinion 73*)

**LONDON :**

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 78

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

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*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

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Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

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Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August  
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(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November  
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)



## DIRECTION 78

VALIDATION UNDER THE PLENARY POWERS OF THE  
GENERIC NAME "DAIRA" DE HAAN, [1833] (CLASS  
CRUSTACEA, ORDER DECAPODA) (VALIDATION OF  
AN ENTRY ON THE "OFFICIAL LIST OF GENERIC  
NAMES IN ZOOLOGY" MADE BY THE RULING  
GIVEN IN "OPINION" 73)

**RULING** :—(1) Under the Plenary Powers the generic name *Daira* Milne Edwards (H.), 1830, is hereby suppressed for the purposes both of the Law of Priority and of the Law of Homonymy.

(2) The following revised entry relating to the generic name *Daira* de Haan, [1833] (Class Crustacea, Order Decapoda) is hereby substituted for the entry made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 73 :—

*Daira* de Haan, [1833], as validated by the suppression of the senior homonym *Daira* Milne

Edwards (H.), 1830, under the Plenary Powers in (1) above (gender : feminine<sup>1</sup>) (type species, by monotypy : *Cancer perlatus* Herbst, [1790])

(3) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* with the Name Number 1223 :—

*Dairilia* Dana, 1853, as validated under the Plenary Powers in (1) above (gender : feminine) (type species, by monotypy under Rule (f) in Article 30 through *Daira* Milne Edwards (H.), 1830, for which name *Dairilia* Dana was published as a substitute : *Daira gabertii* Milne Edwards (H.), 1830)

(4) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

(a) *perlatus* Herbst, [1790], as published in the combination *Cancer perlatus* (specific name of type species of *Daira* de Haan, [1833]) (Name No. 1427) ;

(b) *gabertii* Milne Edwards (H.), 1830, as published in the combination *Daira gabertii* (specific name of type species of *Dairilia* Dana, 1853 (Name No. 1428).

(5) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid*

---

<sup>1</sup> At the time when the generic name *Daira* de Haan, [1833], was placed on the *Official List of Generic Names in Zoology*, the International Commission was not required to assign a gender to each name placed on that *List*. Following the receipt of a General Directive on this subject from the Thirteenth International Congress of Zoology, Paris, 1948, the Commission has now assigned an appropriate gender to every name previously placed on the *Official List*, subject to exceptions in the case of a few names, the gender attributable to which is still under examination. The gender attributable to the name *Daira* de Haan, [1833], was determined as the feminine gender by the Ruling given in *Direction 11* (1955, *Ops. Decls. int. Comm. zool. Nomencl.* 1(C) : 15—34).

*Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Daira* Milne Edwards (H.), 1830, as suppressed under the Plenary Powers in (1) above (Name No. 1044) ;
- (b) *Daira* Gistel, [1847] (a junior homonym of *Daira* de Haan, [1833]) (Name No. 1045) ;
- (c) *Dairinia* Bate (C.S.), 1862 (an Erroneous Subsequent Spelling for *Dairilia* Dana, 1853) (Name No. 1046).

## I. THE STATEMENT OF THE CASE

The present *Direction* is concerned with the validation of an erroneous entry relating to the generic name *Daira* de Haan, [1833] (Class Crustacea, Order Decapoda) made on the *Official List of Generic Names in Zoology* in 1922 by the Ruling given in *Opinion* 73. The flaw in the entry so made on the *Official List* was detected in the Office of the Commission in the course of work on the preparation of the *Official List* for publication in book-form. The circumstances of this case were submitted to the International Commission by the Secretary on 6th December 1955 in the following paper :—

**Proposed use of the Plenary Powers to validate the generic names “*Daira*” de Haan, [1833] (Class Crustacea, Order Decapoda) (a name placed on the “*Official List of Generic Names in Zoology*” by the Ruling given in “*Opinion*” 73) and “*Dairilia*” Dana, 1853 (Class Crustacea, Order Amphipoda)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present application is to ask the International Commission to rectify an error in the Ruling given in *Opinion* 73

(1922, *Smithson. misc. Coll.* 73 (No. 1) : 23—31) when the name *Daira* de Haan, [1833] (*in* von Siebold, *Faun. japon.*, Crust. : 18) (Class Crustacea, Order Decapoda) was placed on the *Official List of Generic Names in Zoology*. The type species of this genus is, by monotypy, *Cancer perlatus* Herbst, [1790] (*Versuch. Naturgesch. Krabben Krebse* 1(8) : 265). The error in question came to light in the early part of 1955 when a final check was carried out by this Office of all the entries relating to the names of Decapod Crustacea made on the *Official List of Generic Names in Zoology* during the pre-Lisbon (1935) period for the purpose of formulating such proposals as might be necessary for completing the entries so made in the *Official List*, in accordance with the General Directives issued to the Commission by the Thirteenth International Congress of Zoology, Paris, 1948.

2. The error in question arises from the fact that the name *Daira* de Haan, [1833], is invalid by reason of being a junior homonym of *Daira* Milne Edwards (H.), 1830 (*Ann. Sci. nat.*, Paris 20 : 392), a name given to a genus of the Order Amphipoda (Class Crustacea), of which the type species, by monotypy, is *Daira gabertii* Milne Edwards (H.), 1830 (*loc. cit.* 20 : 393).

3. The entry in Neave's *Nomenclator Zoologicus* relating to the name *Daira* Milne Edwards contained a note that this name had later been replaced by the name *Dairilia* Dana, 1853 (*U.S. explor. Exped.* 13(2) : 1595—1596).

4. At this point I consulted Dr. Isobel Gordon (*British Museum (Natural History), London*) as to the action which it was desirable should be taken to deal with the situation which had been disclosed. In reply Dr. Gordon informed me (*in litt.*, 1st November 1955) (1) that fortunately Dana had replaced the name *Daira* Milne Edwards by the name *Dairilia* in the erroneous belief that it was of later date than the name *Daira* de Haan. Dr. Gordon added that both these invalid names (*Daira* de Haan and *Dairilia* Dana) were in current use and that it was undesirable that either should be disturbed. The advice so received clears the way for the rectification of the error in *Opinion* 73 by the suppression under the Plenary Powers of the name *Daira* Milne Edwards, 1830, thus validating the entry of *Daira* de Haan, [1833], on the *Official List* and incidentally validating also the long-established name *Dairilia* Dana, 1853.

5. Further, I have been informed by Dr. Gordon that the names *Cancer perlatus* Herbst, [1790], and *Daira gabertii* Milne Edwards,

1830, both of which are available names, are currently accepted as the oldest such names for the type species of *Daira* de Haan, [1833], and *Dairilia* Dana, 1853, respectively.

6. There is one Erroneous Subsequent Spelling for *Dairilia* Dana, namely *Dairinia* Bate (C.S.), 1862 (*Cat. Amph. Crust. Brit. Mus.* : 309). In addition, there is one generic name *Daira* which is junior to *Daira* de Haan as well as to *Daira* Milne Edwards. This is *Daira* Gistel, [1847] (*Handb. Naturgesch.* 1850 : 575 ; *id.*, 1848, *Nat. Thierr.* : 174).

7. In the light of the foregoing considerations, I recommend the International Commission :—

- (1) to use its Plenary Powers to correct the error in the Ruling given in *Opinion 73* by suppressing the generic name *Daira* Milne Edwards (H.), 1830, for the purposes both of the Law of Priority and of the Law of Homonymy ;
- (2) to substitute the following revised entry relating to the generic name *Daira* de Haan, [1833], on the *Official List of Generic Names in Zoology* : *Daira* de Haan, [1833], as validated under (1) above (gender : feminine) (type species, by monotypy : *Cancer perlatus* Herbst, [1790]) ;
- (3) to place the under-mentioned generic name on the *Official List of Generic Names in Zoology* : *Dairilia* Dana, 1853 (gender : feminine) (type species, by monotypy through *Daira* Milne Edwards (H.), 1830, for which the name *Dairilia* Dana is a substitute : *Daira gabertii* Milne Edwards (H.), 1830) ;
- (4) to place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—
  - (a) *perlatus* Herbst, [1790], as published in the combination *Cancer perlatus* (specific name of type species of *Daira* de Haan, [1833]) ;
  - (b) *gabertii* Milne Edwards (H.), 1830, as published in the combination *Daira gabertii* (specific name of type species of *Dairilia* Dana, 1853) ;
- (5) to place the under-mentioned generic names on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—
  - (a) *Daira* Milne Edwards (H), 1830, as suppressed under the Plenary Powers under (1) above ;

- (b) *Daira* Gistl, [1847] (a junior homonym of *Daira* de Haan, [1833]) ;
- (c) *Dairinia* Bate (C.S.), 1862 (an Erroneous Subsequent Spelling for *Dairilia* Dana, 1853).

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of the validation of the generic name *Daira* de Haan, [1833], was allotted the Registered Number Z.N.(S.) 911.

**3. Publication of the present application :** The present application was sent to the printer on 20th February 1956 and was published on 12th June in the same year in Part 1 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Hemming, 1956, *Bull. zool. Nomencl.* **12** : 19—21).

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 12th June 1956 (a) in Part 1 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's paper was published) and (b) to the other prescribed serial publications. In addition such Notice was given to four general zoological serial publications.

**5. Support received from Isobel Gordon (British Museum (Natural History), London) and L. B. Holthuis (Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands) :** Support for the action recommended in the present case was received from two specialists : Dr. Isobel Gordon (*British Museum (Natural History), London*) ; Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*). Particulars of the support given by Dr. Gordon are given in paragraph 4 of the application submitted in this case. Dr. Holthuis who commented on this case shortly before its publication in the *Bulletin of Zoological Nomenclature* wrote : " I fully agree " (*in litt.*, 2nd May 1956).

**6. No objection received :** No objection to the use of the Plenary Powers in the manner recommended in the present case was received from any source.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**7. Issue of Voting Paper V.P.(57)3 :** On 22nd January 1957 a Voting Paper (V.P.(57)3) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the generic name *Daira* de Haan, [1833], and matters incidental thereto, as set out in Points (1) to (5) in paragraph 7 on pages 20 and 21 of Volume 12 of the *Bulletin of Zoological Nomenclature* " [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**8. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 22nd April 1957.

**9. Particulars of the Voting on Voting Paper V.P.(57)3 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)3 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-one (21) Commissioners (arranged in the order in which Votes were received) :*

Hering ; Boschma ; Holthuis ; Prantl ; Lemche ;  
Jaczewski ; Mayr ; Dymond ; Bodenheimer ; Vokes ;  
Key ; Riley ; Esaki ; Hemming ; Bonnet ; Mertens ;  
Stoll ; do Amaral ; Tortonese ; Sylvester-Bradley ;  
Miller ;

- (b) *Negative Votes, two (2) :*

Cabrera ; Kühnelt ;

- (c) *On Leave of Absence, one (1) :*

Bradley (J.C.) ;

- (d) *Prevented from Voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

- (e) *Voting Papers not returned :*

None.

**10. Declaration of Result of Vote :** On 24th April 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)3, signed a Certificate that the Votes cast were as set out in paragraph 9 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so



taken was the decision of the International Commission in the matter aforesaid.

**11. Preparation of the Ruling given in the present " Direction " :**

On 18th June 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)3.

**12. Original References :** The following are the original references for the names placed on the *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*Daira* Milne Edwards (H.), 1830, *Ann. Sci. nat.*, Paris, **20** : 392

*Daira* Gistel, [1847], *Handb. Naturgesch.* : 575 ; *id.*, 1848, *Nat. Thierr.* : 174

*Dairilia* Dana, 1853, *U.S. explor. Exped.* **13**(2) : 1595—1596

*Dairinia* Bate (C.S.), 1862, *Cat. Amph. Crust. Brit. Mus.* : 309

*gabertii*, *Daira*, Milne Edwards (H.), 1830, *Ann. Sci. nat.*, Paris **20** : 393

*perlatus*, *Cancer*, Herbst, [1790], *Versuch. Naturgesch. Krabben Krebse* **1**(8) : 265

**13.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

14. The present *Direction* shall be known as *Direction Seventy-Eight (78)* of the International Commission on Zoological Nomenclature.

DONE in London, this Eighteenth day of June, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

VOLUME 1. SECTION E. Part E17. Pp. 305—314

## DIRECTION 80

Confirmation of the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Molgula* Forbes, 1848 (Class Urochorda) (*Direction* supplementary to *Opinion* 94)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 80

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

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*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

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Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

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Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor ENRICO TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 80

### CONFIRMATION OF THE ENTRY ON THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY" RELATING TO THE GENERIC NAME "MOLGULA" FORBES, 1848 (CLASS UROCHORDA) ("DIRECTION" SUPPLEMENTARY TO "OPINION" 94)

**RULING** :—(1) The position on the *Official List of Generic Names in Zoology* of the name *Molgula* Forbes, 1848 (Class Urochorda) is hereby confirmed, subject to the substitution in respect of the above name of the following amended entry in place of that made by the Ruling given in *Opinion* 94 :—

*Molgula* Forbes, 1848 (gender : feminine) (type species, by selection by Hartmeyer (R.) (1914) : *Molgula oculata* Forbes, 1848).

(2) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name No. 1441 :—

*oculata* Forbes, 1848, as published in the combination *Molgula oculata* (specific name of type species of *Molgula* Forbes, 1848).

(3) The under-mentioned family-group name is hereby placed on the *Official List of Family-Group Names in Zoology* with the Name No. 197 :—

MOLGULIDAE Lacaze-Duthiers (F.J.H.de), 1877 (type genus : *Molgula* Forbes, 1848).

#### I. THE SUBJECT MATTER OF THE PRESENT "DIRECTION"

The purpose of the present *Direction* is to confirm and complete the entry relating to the generic name *Molgula* Forbes, 1848 (Class Urochorda) made on the *Official List of Generic Names in*

*Zoology* by the Ruling given in *Opinion* 94. The circumstances of this case were brought to the attention of the International Commission on Zoological Nomenclature in the following paper submitted by the Secretary on 11th April 1957 :—

**Proposed confirmation of the entry relating to the generic name  
“Molgula” Forbes, 1848 (Class Urochorda) made on the  
“Official List of Generic Names in Zoology” by the  
Ruling given in “Opinion” 94 and matters incidental  
thereto**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

1. The purpose of the present note is to lay before the International Commission on Zoological Nomenclature certain supplementary information regarding the generic name *Molgula* Forbes, 1848 (Class Urochorda), which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 94 (1926, *Smithson. misc. Coll.* 73 (No. 4) : 13) and to submit recommendations for the disposal of outstanding matters connected with this name.

2. When the name *Molgula* Forbes was placed on the *Official List*, the entry so made, which was drawn up in the contracted and incomplete form then in vogue, was as follows :—“*Molgula* Forbes, 1848 ; 1853, 36, type *M. oculata* Forbes, 1848 ; 1853, 36”. The correct reference for this name is :—*Molgula* Forbes, 1848, in Forbes & Hanley, *Hist. Brit. Moll.* 1 : 36. The gender attributable to the name *Molgula* Forbes has been determined as being the feminine gender by the Ruling given by the Commission in *Direction* 42 (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 1(D) : 153—179).

3. Forbes cited two nominal species as belonging to his genus *Molgula*, namely, (i) *Molgula oculata* Forbes, then a new species (: 36) and (ii) what he called *Molgula tubulosa* Rathke (: 36). (The specific name *tubulosa* cited by Forbes is an Erroneous Subsequent Spelling for the name *tubularis* Rathke, 1806, as published in the combination *Ascidia tubularis* (Rathke, (J.), 1806 in Müller (O.F.), *Zool. dan.* (ed. 13) 4 : 12). Rathke's name is now treated as a junior subjective synonym of the name of a species currently placed in a different genus.

4. No type species was designated or indicated by Forbes for the genus *Molgula*, the type species of which must therefore be one of the two nominal species cited above. The first author definitely to select a type species for this genus was Hartmeyer who in 1914 (*SitzBer. Ges. naturf. Freunde Berlin* 1914 (No. 1) : 5) so selected the nominal species *Molgula oculata* Forbes, 1848.

5. The genus *Molgula* Forbes is a well-known taxon in the Class Urochorda and is the type genus of the family MOLGULIDAE which was established by Lacaze-Duthiers (F.J.H. de) in 1877 (*Arch. Zool. expér. gén.* 6 : 488). The nominal species *Molgula oculata* Forbes, the type species of this genus, is currently regarded as representing a taxonomically good species, for which Forbes' name *oculata* is the oldest available specific name.

6. In common with the names of genera of other groups, the names of genera of the Class Urochorda placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936 were reviewed in the Office of the Commission in the period 1955—1956 for the purpose of determining the nature and extent of any supplementary action by the Commission required as a preliminary to the publication of the forthcoming edition of the *Official List* in book-form. The result of this review, so far as concerns the names of genera of the Phyla Mollusca, Brachiopoda and Echinodermata and of the Class Urochorda of the Phylum Chordata, was submitted to the Commission on 28th August 1956 in a paper bearing the Registered Number Z.N.(S.) 1124 simultaneously with Voting Paper V.P.(O.M.)(56)21. On that occasion it was explained that no proposals were being submitted in connection with the generic name *Molgula* Forbes, it having been judged desirable temporarily to postpone consideration of the position of that name on the *Official List* in order to permit of a further examination of a generic name of older date long treated as a *nomen dubium* which it had in the past been claimed should be looked upon as a senior subjective synonym of *Molgula* Forbes. This question has now been examined in consultation with interested specialists. The results are set out in the following paragraphs.

7. The generic name which, as explained above, might, it was thought, endanger the position of *Molgula* Forbes was the name *Caesira* Fleming, 1822 (*Phil. Zool.* 2 : 511), as used by that author in the binomen *Caesira dione* (= *Cynthia dione* Savigny, 1816, *Mém. Anim.*

*sans Vertèbr.* (2) : 93). Fleming's observation on this matter was of the scantiest nature, reading as follows :—

“ Meshes of the branchiae interrupted by the folds. *C. diona* [sic] of Sav. Tab. vii. f. 1. The *Ascidia quadridentata* of Forskael.”

8. The name *Caesira* Fleming is not a junior homonym of any generic name consisting of the same word and, as it was published with a cited included nominal species, it is, as a name published before 1931, an available name. In view of the fact that, although Fleming cited two nominal species in connection with this genus, he regarded it as containing only one taxonomically valid species (*C. dione* Savigny), the name of the other cited species being given only as a subjective junior synonym, the genus *Caesira* Fleming is, under *Declaration 26* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* **13** : xxxvii—1), to be treated as being a monotypical genus with *Cynthia dione* Savigny, 1816, as type species.

9. For eighty-six years following its publication the generic name *Caesira* Fleming was lost in well-deserved obscurity. In 1908, however, Hartmeyer (*Zool. Ann.* **3** : 17—18) claimed that he had been able to recognise in the words written by Fleming in 1822 (quoted in paragraph 7 above) evidence that the name *Caesira* Fleming applied to the genus which was then, and for long had been, known by the name *Molgula* Forbes, which he accordingly sank as a junior subjective synonym. In the following year in the Tunicata volume (Volume 3, Suppl. : 1324) of Bronn's *Die Klassen und Ordnungen des Thierreichs*, Hartmeyer again sank *Molgula* Forbes as a junior synonym of *Caesira* Fleming. This produced a strong reaction from W. E. Ritter (1913, *Proc. U.S. Nat. Mus.* **45** : 433) who, after reaffirming his adherence to the principle of applying the priority rule strictly, advanced arguments rebutting the synonymisation by Hartmeyer of *Molgula* with *Caesira*. Ritter's protest carried conviction with Hartmeyer who in the following year (1914, *SitzBer. Ges. naturf. Freunde Berlin* **1914** (No. 1) : 3, 5) withdrew completely from his former position, abandoning the name *Caesira* Fleming and re-instating the name *Molgula* Forbes, at the same time (as noted in paragraph 4 above) selecting *Molgula oculata* Forbes as type species of the latter genus. Since the publication of this paper of Hartmeyer's—that is, for over forty years—the name *Caesira* has completely disappeared, being treated by all specialists as a *nomen dubium*, the nominal species *Cynthia dione* Savigny, which is its type species, being unrecognisable. Equally unrecognisable is the species to which Forskål applied the name *quadridentata*, which it is agreed is not the same as that to which in 1767 Linnaeus gave the name *Ascidia quadridentata*.

10. For the information briefly summarised in the immediately preceding paragraph the Commission is much indebted to the following



specialists who have very kindly assisted in the preparation of the material required for the present case :—

D. P. Abbott, *Hopkins Marine Station, Pacific Grove, California, U.S.A.*

N. J. Berrill, *McGill University, Montreal, Canada*

Willard G. Van Name, *New Haven, Connecticut, U.S.A.*

11. It is necessary now to consider what action should be taken by the Commission in relation to the entry regarding the generic name *Molgula* Forbes already made on the *Official List*. As regards this, my view is that the name *Molgula* Forbes, as the name of an important genus which is the type genus of a family and as a name which has been on the *Official List* for nearly thirty years, certainly ought not to be displaced in favour of some obscure name of older date. If there existed any such name which there was any ground for regarding as a possible senior synonym of *Molgula* Forbes, I should certainly take the view that that name ought to be suppressed under the Plenary Powers in favour of the name *Molgula*. In the present case, however, there is no such name, the only challenge to the position of that name that has ever been made being a challenge made nearly fifty years ago by an eminent specialist who within the space of four years withdrew the claims which he had advanced in favour of the older name concerned (*Caesira* Fleming) and unreservedly reinstated *Molgula* Forbes as a valid name. The name *Caesira* Fleming, though, as is now admitted by all specialists, a useless and undesirable *nomen dubium*, cannot be regarded as being any longer even a potential threat to the stability of the stability of the name *Molgula* Forbes. It appears to me, therefore, that, although it will no doubt be desirable for the name *Caesira* Fleming, in common with other *nomina dubia* in the group concerned, to be deprived of the status of availability on the first occasion on which specialists in the Urochorda set their hands to the task of clearing out the dead wood from the nomenclature of their group, there is no need for such action to be taken in connection with the present case which is concerned solely with the question of stabilising the position of the name *Molgula* Forbes on *Official List of Generic Names in Zoology*.

12. For the purposes of the present case I therefore recommend that the *International Commission on Zoological Nomenclature* should :—

- (1) confirm the position of the generic name *Molgula* Forbes, 1848, on the *Official List of Generic Names in Zoology* and substitute the following revised entry in regard thereto for that made by the Ruling given in *Opinion 94*

*Molgula* Forbes, 1848 (gender : feminine) (type species, by selection by Hartmeyer (R.) (1914) : *Molgula oculata* Forbes, 1848)

- (2) place the under-mentioned specific name on the *Official List of Specific Names in Zoology* :—

*oculata* Forbes, 1848, as published in the combination  
*Molgula oculata* (specific name of type species of *Molgula*  
Forbes, 1848)

- (3) place the under-mentioned family-group name on the *Official List of Family-Group Names in Zoology* :—

MOLGULIDAE Lacaze-Duthiers (F.J.H. de), 1877 (type genus :  
*Molgula* Forbes, 1848).

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper the question of confirming and completing the existing entry on the *Official List of Generic Names in Zoology* in regard to the name *Molgula* Forbes was allotted the Registered Number Z.N.(S.) 1073.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(57)5 :** On 11th April 1957 a Voting Paper (V.P.(O.M.)(57)5) was issued in which each Member of the Commission was asked (1) to state whether he agreed that "in conformity with the General Directives issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress on Zoology, Paris, 1948, regarding the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, the names of taxa belonging to the Class Urochorda of the Phylum Chordata referred to in Sections (1), (2) and (3) of paragraph 12 of the Paper bearing the Registered Number Z.N.(S.) 1073 [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] submitted simultaneously with the present Voting Paper be confirmed or, as the case may be, be placed on the appropriate *Official Lists* as there recommended and that the other action recommended in the said paragraph be similarly approved" and (2), if he did not agree as regards any given item, to specify that item.

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 11th May 1957.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(57)5 :**

At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(57)5 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Lemche ; Holthuis ; Vokes ; Hering ; Kühnelt ; Hankó ; Esaki ; Boschma ; Bradley (J.C.) ; Key ; Cabrera ; Sylvester-Bradley ; Jaczewski ; Mertens ; Dymond ; Hemming ; Stoll ; Bonnet ; Prantl ; Bodenheimer ; Tortonese ; do Amaral ; Riley ; Miller ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, one (1) :*

Mayr ;

(d) *Voting Papers not returned :*

None.

**6. Declaration of Result of Vote :** On 12th May 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(57)5, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present “ Direction ” :** On 10th August 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(57)5.

**8. Original References :** The following is the original reference for the specific name placed on the *Official List* of names of taxa of the above category by the Ruling given in the present *Direction* :—

*oculata*, *Molgula*, Forbes, 1848, in Forbes & Hanley, *Hist. Brit. Moll.* **1** : 36

**9.** The following is the reference for the selection of a type species for the genus *Molgula* Forbes, 1848, specified in Section (1) of the Ruling given in the present *Direction* :—

Hartmeyer, 1914, *SitzBer. Ges. naturf. Freunde Berlin* **1914** (No. 1) : 5

**10.** The following is the original reference for the family-group name placed on the *Official List* of names of taxa of the foregoing category by the Ruling given in the present *Direction* :—

MOLGULIDAE Lacaze-Duthiers (F.J.H.de), 1877, *Arch. Zool. expér. gén.* **6** : 488

**11.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

**12.** The present *Direction* shall be known as *Direction* Eighty (80) of the International Commission on Zoological Nomenclature.

DONE in London, this Tenth day of August, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.18. Pp. 315—334

## DIRECTION 81

Confirmation of the position on the *Official List of Generic Names in Zoology* of the generic names *Gypaetus* Storr, 1784, *Anas* Linnaeus, 1758, *Nyctea* Stephens, 1826, and *Vireo* Vieillot, 1807 (Class Aves) and correction of the entries made in regard thereto (*Direction* supplementary to *Opinion* 67)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 81

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts, England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

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Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

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Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

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Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

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Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria," Genova, Italy*) (16th December 1954)

## DIRECTION 81

CONFIRMATION OF THE POSITION ON THE " OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY " OF THE GENERIC NAMES " GYPAETUS " STORR, 1784, " ANAS " LINNAEUS, 1758, " NYCTEA " STEPHENS 1826, AND " VIREO " VIEILLOT, 1807, (CLASS AVES), AND CORRECTION OF THE ENTRIES MADE IN REGARD THERETO (" DIRECTION " SUPPLEMENTARY TO " OPINION " 67)

**RULING** :—(1) The entries on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion 67* in relation to the names of the under-mentioned genera in the Class Aves are hereby amended to the extent severally specified below :—

- (a) In the entry relating to the name *Gypaetus* Storr, 1784, the subjective synonymisation of the name *Gypaetus grandis* Storr, 1784 (the name of the type species of the genus *Gypaetus* Storr) with the name *Vultur barbatus* Linnaeus, 1758, is hereby deleted.
- (b) In the entry relating to the name *Anas* Linnaeus, 1758, the subjective synonymisation of the name *Anas boschas* Linnaeus, 1758 (the name of the type species of the genus *Anas* Linnaeus) with the name *Anas platyrhynchos* Linnaeus, 1758, is hereby deleted.
- (c) In the entry relating to the name *Nyctea* Stephens, 1826, the portion regarding the type species of the genus so named and the method by which

under Article 30 the species concerned was determined as such is hereby deleted and a statement that the type species of this genus is *Strix erminea* Shaw, 1809, by monotypy, is hereby inserted in place of the statement deleted above.

- (d) In the entry relating to the name *Vireo* Vieillot, 1807, (i) the words "by selection by Gadow (1883)" are hereby substituted for the words "by selection by Gray (1840)" as indicating the method by which *Vireo musicus* Vieillot, 1807, was determined under Rule (g) in Article 30 as the type species of the above genus and (ii) the subjective synonymisation of the above nominal species with the nominal species *Tanagra grisea* Boddaert, 1783, is hereby deleted.

(2) The position on the *Official List of Generic Names in Zoology* of the under-mentioned generic names is hereby confirmed, subject to the substitution in respect of those names of the following entries amended in accordance with the provisions of (1) above in place of the entries severally made therefor by the Ruling given in *Opinion 67* :—

- (a) *Gypaetus* Storr, 1784 (gender : masculine) (type species, by monotypy : *Gypaetus grandis* Storr, 1784) ;
- (b) *Anas* Linnaeus, 1758 (gender : feminine) (type species, by selection by Lesson (1828) : *Anas boschas* Linnaeus, 1758, a nominal species, the name of which by the "First Reviser" "selection made by Lönnberg (1906) takes precedence below the name *Anas platyrhynchos* Linnaeus, 1758, a name published in the same work and on the same date)
- (c) *Nyctea* Stephens, 1826 (gender : feminine) (type species, by monotypy : *Strix erminea* Shaw, 1809)



- (d) *Vireo* Vieillot, 1807 (gender : masculine) (type species, by selection by Gadow (1883) : *Vireo musicus* Vieillot, 1807)

(3) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *aureus* Hablizl, 1783, as published in the combination *Vultur aureus* (Name No. 1442) ;
- (b) *barbatus* Linnaeus, 1758, as published in the combination *Vultur barbatus* (Name No. 1443) ;
- (c) *meridionalis* Keyserling & Blasius, 1840, as published in the combination *Gypaetos* [sic] *meridionalis* (Name No. 1444) ;
- (d) *platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*, a name having precedence over the specific name *boschas* Linnaeus, 1758, as published in the combination *Anas boschas* (a name published in the same work and on the same date) through the “First Reviser” selection made by Lönnberg (1906) under Article 28 of the *Règles* (Name No. 1445) ;
- (e) *scandiaca* Linnaeus, 1758, as published in the combination *Strix scandiaca*, a name having precedence over the specific name *nyctea* Linnaeus, 1758, as published in the combination *Strix nyctea* (a name published in the same work and on the same date) through the “First Reviser” selection made by Lönnberg (1931) under Article 28 of the *Règles* (Name No. 1446) ;
- (f) *grisea* Boddaert, 1783, as published in the combination *Tanagra grisea* (Name No. 1447).

(4) The under-mentioned generic name is hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name No. 1059 :—

*Gypaetos* Geoffroy Saint-Hilaire (E.), 1797 (an Invalid Emendation of *Gypaetus* Storr, 1784).

(5) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name No. 475 :—

*platyrhyncha* Lönnberg, 1906, as published in the combination *Anas platyrhyncha* (an Invalid Emendation of *platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* is concerned with four of the nine names of genera in the Class Aves which were placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67, the entries regarding which were postponed for further examination at the time when in 1956 the International Commission on Zoological Nomenclature in its *Direction* 43 reviewed in detail the Ruling given in the foregoing *Opinion*. The proposals which formed the basis of the decisions embodied in the present *Direction* were submitted to the Commission by the Secretary in the following paper on 1st May 1957 :—

**Proposed completion and in part correction of the entries relating to the names of four genera of birds made on the “ Official List of Generic Names in Zoology ” by the Ruling given in “ Opinion ” 67**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper contains a second instalment of proposals relating to certain generic names in the Class Aves placed on the *Official List of*

*Generic Names in Zoology* by the Ruling given in *Opinion 67* (1916, *Smithson. Publ.* 2409 : 177—182), as regards the problems raised in which I found it necessary to recommend a brief postponement, when on 12th October, 1955 I submitted a paper bearing the Registered Number Z.N.(S.) 993 containing proposals for the completion of the entries on the *Official List* relating to the other names involved in the above *Opinion*. In the paper referred to above, which has since been embodied in *Direction 43* (1956, *Ops. Decls. int. Comm. zool. Nomencl. 1(D)* : 171—210), I gave brief particulars (in paragraph 4) regarding the eight names which were then postponed. Of these the fifth (*Grus*) has since been dealt with by the Commission in *Direction 55*. The present paper is concerned with the third, sixth, seventh and eighth of the names in question. The names are : *Gypaetus*, *Anas*, *Nyctea* and *Vireo*. The results of the investigations since carried out in regard to these names are set out in the following paragraphs.

### (1) “*Gypaetus*” Storr, 1784

2. In *Opinion 67* the entry made in relation to the type species of the genus *Gypaetus* Storr, 1784 (*Alpenreise vom Jahre 1781* 1 : 69) was as follows :—“Mt. [Monotypy], *grandis* Storr = *Vultur barbatus* Linn.” It was necessary in this as in all other similar cases to consult the original work both to ascertain whether in fact this genus was monotypical and whether the new nominal species then established (*Gypaetus grandis* Storr) was objectively identical with the species (*Vultur barbatus* Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 87) with which it was identified in the Ruling given in the above *Opinion*. The work in which this name was published is scarce and it took some time before it was found possible to locate a copy. As its name implies, Storr’s work is concerned primarily with travels in the Alps and the natural history observations contained in it are incidental in character. In the passage in which he introduced the generic name *Gypaetus*, Storr discussed at some length whether the Goldgeier of the European Alps was the same species as that to which Linnaeus had given the name *Vultur barbatus*. On balance he came to the conclusion that two species were involved and he therefore gave the name *Gypaetus grandis* to the Goldgeier. Storr did not definitely state that he considered that *Vultur barbatus* Linnaeus was referable to his new genus *Gypaetus*, and in the circumstances the nominal species *Gypaetus grandis* Storr, as the only such species definitely placed in this genus by its author becomes the type species by monotypy. The statement under this head made in *Opinion 67* is therefore correct.

3. Storr’s view as to the close relationship between his new nominal species *Gypaetus grandis* and the older nominal species *Vultur barbatus* Linnaeus has been confirmed by later ornithologists, these two nominal species being currently regarded as representing subspecies of a single polytypical taxon. The specific name *grandis* Storr is not, however,

regarded as being the oldest such name for the subspecies in question, that name being now treated as a junior subjective synonym of *aureus* Hablizl, 1783 (in Pallas, *Neue nord. Beytr.* 4 : 64), as published in the combination *Vultur aureus*. The taxon so named occurs in various suitable localities in Europe, while the nominate subspecies *barbatus* Linnaeus is found in North-West Africa. A third subspecies occurring in North-West Africa and in South Africa has been distinguished as *meridionalis* Keyserling & Blasius (*Gypaetos* [sic] *meridionalis* Keyserling & Blasius, 1840, *Wirbelth. Europ.* : xxviii).

4. In the light of the particulars given above, we see that it will be necessary to amend the entry on the *Official List* relating to the generic name *Gypaetus* Storr by deleting therefrom the subjective synonymisation of the name of the type species (*Gypaetus grandis* Storr) with the older name *Vultur barbatus* Linnaeus. Under the General Directive given to the Commission by the International Congress of Zoology relative to the placing of names on the *Official List of Specific Names in Zoology* the specific name *grandis* Storr, 1784, as published in the combination *Gypaetus grandis*, although the specific name of the type species of the genus *Gypaetus* Storr, is not eligible for admission to the foregoing *Official List*, the name which should be so entered being its senior subjective synonym *aureus* Hablizl, 1783, as published in the combination *Vultur aureus*. In addition, under the "Completeness-of-Opinions" Rule the other two names discussed above (namely, *barbatus* Linnaeus, 1758 (*Vultur*) and *meridionalis* Keyserling & Blasius, 1840 (*Gypaetos* [sic]) should also be placed on the *Official List*.

5. Finally, it must be noted that in 1797 (*Bull. Sci. Soc. philomat. Paris* 1 : 65) Geoffroy Saint-Hilaire (E.) emended the name *Gypaetus* Storr to *Gypaetos*. This is an Invalid Emendation and should accordingly be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.

## (2) "Anas" Linnaeus, 1758

6. The case of the name *Anas* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 122) was postponed in 1955 because, as I then explained, it was not clear what was the oldest available name for the type species of this genus. This arose from the fact that in 1758 Linnaeus fell into the error of believing that the male and the female of the Mallard were different species. He first described the female, giving it the name *Anas platyrhynchos* (: 125); two pages further on (: 127) he gave the male the name *Anas boschas*. The latter nominal species was selected as the type species of *Anas* Linnaeus by Lesson in 1828 (*Manuel Ornith.* 2 : 417).

7. Since the name *platyrhynchos* and *boschas* were published for the same species in the same work, it is necessary, in order to determine which is the valid name for the species in question to ascertain which

of these names was selected under the "First Reviser" Rule to take precedence over the other. On this subject I consulted the following specialists:—Professor Ernst Mayr (*Museum of Comparative Zoology, Cambridge, Massachusetts, U.S.A.*); Professor Alden H. Miller (*Museum of Vertebrate Zoology, University of California, Berkeley, California, U.S.A.*); Dr. Finn Salomonsen (*Universitetets Zoologiske Museum, Copenhagen*); Professor R. Ph. Dollfus (*Museum National d'Histoire Naturelle, Paris*); Professor Erwin Stresemann (*Zoologisches Museum, Berlin*). At the same time I took the opportunity to seek the views of the above specialists on the question of the relative merits of the original spelling *platyrhynchos* Linnaeus and later emendation *platyrhyncha*.

8. On the first of the foregoing questions Professor Ernst Mayr drew attention to a paper published in 1906 (*J. Ornith.* 54 : 529) in which Lönnberg had first advanced the view that *Anas platyrhynchos* Linnaeus, which had previously been regarded as unidentifiable, represented in fact the female of the Mallard. That species was at that time known by the name *boschas* Linnaeus which, as explained in paragraph 6 above, was published in the *Systema Naturae* two pages after the name *platyrhynchos*. On making the foregoing identification Lönnberg adopted the name *platyrhynchos* Linnaeus for the Mallard, sinking the name *boschas* Linnaeus, as a junior subjective synonym. At first there was some demur at Lönnberg's identification of *platyrhynchos* Linnaeus with *boschas* Linnaeus, but for the last thirty years his view has been universally accepted, the Mallard being known by all authors by the name *platyrhynchos* Linnaeus. It is clear that under the *Règles* Lönnberg must himself be regarded as the "First Reviser" and as having in this capacity given a binding precedence to the name *platyrhynchos* Linnaeus over the name *boschas* Linnaeus formerly in general use. It is clear also that Lönnberg's action in this matter has now won general acceptance.

9. On the second of the questions referred to specialists (paragraph 8 above) all the consultants who furnished comments were agreed that the emendation of the specific name *platyrhynchos* Linnaeus to *platyrhyncha* published by Lönnberg in 1906 (: 529) was unnecessary and undesirable. This emendation was introduced by Lönnberg when he determined that the nominal species so named by Linnaeus was based upon a female specimen, Lönnberg considering that in those circumstances a feminine version of the name with an "-a" termination would be more appropriate than the "-os" termination employed by Linnaeus. Under the *Règles* this action by Lönnberg was quite invalid and the spelling *platyrhynchos* Linnaeus is a Valid Original Spelling, the spelling *platyrhyncha* Lönnberg being an Invalid Emendation. In view of the advice received from the specialists consulted there would clearly be no case for asking the Commission to use its Plenary Powers to validate the spelling *platyrhyncha* Lönnberg.

10. We may now turn back to examine the entry relating to the generic name *Anas* Linnaeus, 1758, made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67*. This reads as follows:—"Anas Linnaeus, 1758 . . . *boschas* Linn. = *platyrhynchos* Linn. (Tsd. Lesson, 1828)". The only modification required is the insertion of the full reference to Lesson's selection in 1828 of *Anas boschas* Linnaeus, 1758, given in paragraph 6 above and the deletion from the entry of all references to *Anas platyrhynchos* Linnaeus, 1758, which is entirely inappropriate in view of the fact that the synonymisation of that name with *Anas boschas* Linnaeus, 1758, rests upon subjective taxonomic considerations and not upon objective nomenclatorial facts. It will, however, be necessary to place on the *Official List of Specific Names in Zoology* the specific name *platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*, as being the specific name currently regarded by specialists as the oldest such name applicable to the type species of the genus *Anas* Linnaeus, 1758. The entry so made will need to be endorsed by a statement that the name *platyrhynchos* Linnaeus has been given precedence over the name *boschas* Linnaeus by the action of Lönnberg (1906) as a "First Reviser". At the same time the Invalid Emendation *platyrhyncha* Lönnberg, 1906, as published in the combination *Anas platyrhyncha*, will need to be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*.

### (3) "Nyctea" Stephens, 1826

11. The case of the generic name *Nyctea* Stephens, 1826 (*in Shaw, Gen. Zool. (Aves) 13(2) : 62*) resembles that of the name *Anas* Linnaeus discussed in the preceding section and was postponed in 1955 for the same reason, namely because it was not clear at that time what under the *Règles* was the oldest available name for the type species. What happened in this case was that in 1758 Linnaeus established two nominal species, each of which is now considered to represent the Snowy Owl. These nominal species were: *Strix scandiaca* Linnaeus 1758 (: 92) and *Strixnyctea* Linnaeus, 1758 (: 93). The question which in 1955 had not been resolved was which under the "First Reviser" Rule should be given precedence over the other.

12. It has now been established that it was not until 1931 that "First Reviser" action was taken in this case. Up to that year the specific name always applied to the Snowy Owl was *nyctea* Linnaeus, the specific name *scandiaca* Linnaeus being looked upon as a *nomen dubium*. In that year, however, Lönnberg (1931, *Ibis* (13) 1 : 306) showed that the name *scandiaca* Linnaeus as well as the name *nyctea* Linnaeus applied to the Snowy Owl. Lönnberg was an adherent of the "Page and Line Precedence" Principle, notwithstanding the

“First Reviser” Rule, embodied in Article 28 of the *Règles*, and he accordingly adopted the specific name *scandiaca* Linnaeus for the Snowy Owl, sinking the long-established name *nyctea* Linnaeus as a junior subjective synonym of that name. The grounds on which Lönnerberg took this action were incorrect but that action nevertheless constitutes a valid “First Reviser” selection on his part. In this matter Lönnerberg was quickly followed by other specialists and the name *scandiaca* Linnaeus is now the accepted specific name for the Snowy Owl.

13. When in 1826 Stephens established the nominal genus *Nyctea*, he cited two nominal species as belonging to it. The first of these was *Nyctea erminea* (Shaw) (= *Strix erminea* Shaw, 1809, *Gen. Zool. (Aves)* 7(1) : 251). The second species was *Strix wapacuthu* Gmelin, 1788 (in Linnaeus, *Syst. Nat.* (ed.13) 1(1) : 291). In citing this latter species, however, Stephens inserted a note of interrogation between the generic and specific names, the entry reading:—“Ny.? Wapacuthu. *Strix wapacuthu*”. Since the species was only doubtfully referred to the genus *Nyctea* by Stephens, it is ineligible under Rule (e) in Article 30 for consideration as a possible type species of this genus. Accordingly, *Strix erminea* Shaw, 1809, the only other species cited by Stephens under his genus *Nyctea*, becomes automatically the type species of that genus by monotypy. There is one minor point which should be noted before we leave this part of the subject. When publishing the name *Strix erminea* in 1809, Shaw discussed also the position of *Strix nyctea* Linnaeus; he examined the possibility that these names might apply to the same species but expressed doubts on this subject. These names are now regarded as synonyms of one another but in view of the way in which the name *erminea* was published by Shaw this synonymisation is subjective only. If these names had in fact been objective synonyms of one another, the provisions of *Declaration 21* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 12 : i—viii) would have applied in this case and the correct course would have been to cite the genus *Nyctea* Stephens as having as its type species the older of the two objectively identical nominal species concerned, i.e. the nominal species *Strix nyctea* Linnaeus, 1758. In existing circumstances, however, this genus is correctly cited as having *Strix erminea* Shaw as its type species.

14. Having established what is the nominal species which is the type species of the genus *Nyctea* Stephens, we are in a position to examine the entry on this subject made on the *Official List* by the Ruling given in the *Opinion*. This entry reads as follows:—“Tt. [Tautonymy], only certain species; also Mt. [Monotypy], *Strix erminea*=*nyctea* Linn.” There are two points to be noted. First, as the Rules in Article 30 of the *Règles* apply successively and as the Rule relating to the determination of type species by monotypy (Rule (c)) precedes the Rule relating to the determination of type species by absolute tautonymy

(Rule (d)), the question of tautonymy becomes wholly irrelevant once, as in this case, the type species of a genus has been determined under Rule (c) (monotypy). Moreover, even if the type species of this genus had not been determined by monotypy, it could not in this case have been determined by absolute tautonymy, for no tautonym was cited by Stephens either as a valid name or as a synonym, the only mention of a specific name consisting of the word "*nyctea*" made by Stephens being a reference to a plate previously published by Shaw containing a figure of an owl under this name. Second, the inclusion in the entry on the *Official List* of the name "*nyctea*" Linnaeus as a synonym of *erminea* Shaw is entirely inappropriate, since (as shown in paragraph 13 above) the names *Strix erminea* Shaw, 1809, and *Stryx nyctea* Linnaeus, 1758, are subjective and not objective synonyms of one another.

15. What is required in order to dispose of the present case is that the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Nyctea* Stephens, 1826, should be redrafted so as to state simply that the type species of this genus is *Strix erminea* Shaw, 1809, by monotypy. At the same time there should be placed on the *Official List of Specific Names in Zoology* the specific name *scandiaca* Linnaeus, 1758, as published in the combination *Strix scandiaca*, that being the specific name accepted by specialists as the oldest available name for the type species of the genus *Nyctea* Stephens. The entry so made should be endorsed to show that under the "First Reviser" Rule that the name has precedence over the name *nyctea* Linnaeus, 1758, as published in the combination *Strix nyctea*, by the selection made by Lönnberg in 1931.

#### (4) "*Vireo*" Vieillot, 1807

16. The case of the generic name *Vireo* Vieillot, 1807 (*Ois. Amér. sept.* 1 : 83) was postponed in 1955 because it had not then been found possible to find in the literature a valid selection as the type species of the species cited as such at the time when the generic name *Vireo* Vieillot was placed on the *Official List*. In *Opinion 67* the Commission accepted as the type species of this genus the nominal species *Vireo musicus* Vieillot, 1807 (*loc. cit.* 1 : 83) (one of the originally included species) and stated that that species had been so selected by Gray in 1840. This statement was incorrect for in 1840 (*List Gen. Birds* : 33) Gray made no mention of the nominal species *Vireo musicus* Vieillot, all that he did being to state that the type species of this genus was *Musicapa noveboracensis* Gmelin, 1788 (*in* Linnaeus, *Syst. Nat.* (ed. 13) 1(2) : 958). The explanation of this discrepancy no doubt rests in the fact that both now and already in Gray's time *Vireo musicus* Vieillot and *Musicapa noveboracensis* Gmelin were



considered to be no more than different names for the name species, it being not uncommon in former times for authors to accept as the valid selection of a type species for a genus the selection of a non-included nominal species in cases where later that species was subjectively identified with one of the included species, the two names being looked upon as synonyms of one another.

17. A search of the literature undertaken since this question was considered in 1955 shows, however, that *Vireo musicus* Vieillot is the valid type species of the genus *Vireo* Vieillot through the action of Gadow in 1883 (*Cat. Birds Brit. Mus.* 8 : 292). Gadow, like Gray (1840), stated that the type species of *Vireo* Vieillot was *Muscicapa noveboracensis* Gmelin, but, unlike Gray, Gadow synonymised that name with the name *Vireo musicus* Vieillot (: 301), thus establishing a definite link between his selection of a non-included species (*noveboracensis*) and one of the originally included species (*musicus*). This represents a very unsatisfactory method of selecting a type species for a genus but owing to its prevalence in earlier days the Thirteenth International Congress of Zoology, Paris, 1948, decided that, in order to prevent the upsetting of currently accepted type selections which might otherwise be involved, a special provision should be inserted in the *Règles* recognising as valid a type selection such as that made by Gadow in the present case, i.e. the selections of a non-included nominal species where that species is expressly identified with another nominal species which was one of the originally included species (1950, *Bull. zool. Nomencl.* 4 : 180, Point 69(3)(b)).

18. When on the basis of the foregoing information we re-examine the entry relating to the name *Vireo* Vieillot made on the *Official List of Generic Names in Zoology* made by the Ruling given in *Opinion* 67, we have to note first that that entry will need to be amended by the substitution of "Gadow (1883)" for "Gray, 1840" as the author and date for the selection of *Vireo musicus* Vieillot to be the type species of the above genus. Second, it will be necessary to delete from the entry made in this case the statement that *Vireo musicus* Vieillot is a junior synonym of *Tanagra grisea* Boddaert, 1783 (*Tabl. Pl. enlum.* : 45), since this represents not a nomenclatorial fact but a purely subjective taxonomic judgment. When, however, we come to consider what action is required as regards the *Official List of Specific Names in Zoology*, the above synonymy becomes important and relevant because today not only are the names *Muscicapa noveboracensis* Gmelin and *Vireo musicus* Vieillot treated as synonyms of one another but in addition both are regarded as junior subjective synonyms of *Tanagra grisea* Boddaert, 1783. Accordingly, it is the name *grisea* Boddaert, 1783, as published in the combination *Tanagra grisea*, which, as the name currently regarded as the oldest specific name available for the type species of *Vireo* Vieillot, should now be placed on the *Official List of Specific Names in Zoology*.

**(5) Family-Group-Name Problems**

19. Of the four generic names discussed in the present paper, two (*Anas* ; *Vireo*) have been taken as the base for family-group names. No recommendations are, however, now submitted in regard to these family-group names, as it is considered better that this matter should be deferred until it is possible to submit to the Commission comprehensive proposals relating to all the family-group-name problems involved in connection with the names of genera of birds placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67*.

**(6) Recommendations**

20. In the light of the considerations set out in the present paper it is recommended that the *International Commission on Zoological Nomenclature* should take the following action for the purpose of disposing of all outstanding matters, other than those relating to family-group names (which it is recommended in paragraph 19 above should be postponed until a later date), in regard to the completion and correction of the entries regarding the names *Gypaetus* Storr, 1784, *Anas* Linnaeus, 1758, *Nyctea* Stephens, 1826, and *Vireo* Vieillot, 1807, made on the *Official List of Generic Names in Zoology* :—

- (1) amend as follows the entries in regard to the under-mentioned generic names made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67* :—
  - (a) *Gypaetus* Storr, 1784 : the entry containing the subjective synonymisation of *Gypaetus grandis* Storr, 1784 (the name of the type species of the genus *Gypaetus* Storr) with *Vultur barbatus* Linnaeus, 1758, to be deleted (paragraph 4) ;
  - (b) *Anas* Linnaeus, 1758 : the entry containing the subjective synonymisation of *Anas boschas* Linnaeus, 1758 (the name of the type species of the genus *Anas* Linnaeus) with *Anas platyrhynchos* Linnaeus, 1758, to be deleted (paragraph 10) ;
  - (c) *Nyctea* Stephens, 1826 : the existing entry relating to the type species of this genus and the method by which that species was so determined to be deleted and to be replaced by an entry stating that the type species of this genus is *Strix erminea* Shaw, 1809, by monotypy (paragraph 15) ;
  - (d) *Vireo* Vieillot, 1807 : the entry “ by selection by Gadow (1883) ” to be substituted for the entry “ by selection by

Gray (1840)'' as the method by which the type species of this genus was determined under Rule (g) in Article 30 ; the entry containing the subjective synonymisation of *Vireo musicus* Vieillot, 1807 (the name of the type species of the genus *Vireo* Vieillot) with *Tanagra grisea* Boddaert, 1783, to be deleted (paragraph 18) ;

(2) place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :—

(a) *aureus* Hablizl, 1783, as published in the combination *Vultur aureus* (paragraph 4) ;

(b) *barbatus* Linnaeus, 1758, as published in the combination *Vultur barbatus* (paragraph 4) ;

(c) *meridionalis* Keyserling & Blasius, 1840, as published in the combination *Gypaetos* [sic] *meridionalis* (paragraph 4) ;

(d) *platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*, the entry so to be made to be endorsed with the statement that by a " First Reviser " selection made by Lönnberg (1906) under Article 28 this name has precedence over the specific name *boschas* Linnaeus, 1758, as published in the combination *Anas boschas*, in the same work and on the same date (paragraph 10) ;

(e) *scandiaca* Linnaeus, 1758, as published in the combination *Strix scandiaca*, the entry so to be made to be endorsed with the statement that by a " First Reviser " selection made by Lönnberg (1931) under Article 28 this name has precedence over the specific name *nyctea* Linnaeus, 1758, as published in the combination *Strix nyctea* in the same book and on the same date (paragraph 15) ;

(f) *grisea* Boddaert, 1783, as published in the combination *Tanagra grisea* (paragraph 18) ;

(3) place the under-mentioned generic name on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

*Gypaetos* Geoffroy Saint-Hilaire (E.), 1797 (an Invalid Emendation of *Gypaetus* Storr, 1784) (paragraph 5) ;

(4) place the under-mentioned specific name on the *Official Index of Rejected and Invalid Specific Names in Zoology* :—

*platyrhyncha* Lönnberg, 1906, as published in the combination *Anas platyrhyncha* (an Invalid Emendation of

*platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*) (paragraph 10).

21. *Acknowledgements* : The grateful thanks of the Commission are due to the specialists named in paragraph 7 above for the assistance which they have been kind enough to give in regard to matters arising in the present case.

**2. Registration of the present application** : Upon the receipt of Mr. Hemming's paper the question of the confirmation of the position on the *Official List of Generic Names in Zoology* of the generic names *Gypaetus*, *Anas*, *Nyctea* and *Vireo* was allotted the Registered Number Z.N.(S.) 1050.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(57)6** : On 1st May 1957 a Voting Paper (V.P.(O.M.)(57)6) was issued in which the Members of the Commission were invited to vote either for, or against, the proposal for the correction and completion of the entries on the *Official List of Generic Names in Zoology* relating to the generic names *Gypaetus* Storr, 1784; *Anas* Linnaeus, 1758; *Nyctea* Stephens, 1826, and *Vireo* Vieillot, 1807, made by the Ruling given in *Opinion 67*, as set out in paragraph 20 of the paper by the Secretary numbered Z.N.(S.) 1050 [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] submitted simultaneously with the present Voting Paper.

**4. The Prescribed Voting Period** : As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 1st June 1957.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(57)6** : At the close of the Prescribed Voting Period, the state

of the voting on Voting Paper V.P.(O.M.)(57)6 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Vokes ; Holthuis ; Bonnet ; Hering ; Lemche ; Esaki ; Prantl ; Key ; Sylvester-Bradley ; Bradley (J.C.) ; Boschma ; Stoll ; Hankó ; Tortonese ; Jaczewski ; Cabrera ; Dymond ; Mertens ; Hemming ; Bodenheimer ; Riley ; do Amaral ; Miller ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, two (2) :*

Mayr ; Kühnelt ;

(d) *Voting Papers not returned :*

None.

**6. Declaration of Result of Vote :** On 2nd June 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(57)6, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :**  
On 11th August 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(57)6.

**8. Original References :** The following are the original references for the names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*aureus*, *Vultur*, Hablizl, 1783, in Pallas, *Neue nord. Beytr.* **4** : 64

*barbatus*, *Vultur*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 87

*grisea*, *Tanagra*, Boddaert, 1783, *Tabl. Pl. enlum.* : 45

*Gypaetos* Geoffroy Saint-Hilaire (E.), 1797, *Bull. Sci. Soc. philomat. Paris* **1** : 65

*meridionalis*, *Gypaetos* [sic], Keyserling & Blasius, 1840, *Wirbelth. Europ.* : xxviii

*platyrhyncha*, *Anas*, Lönningberg, 1906, *J. Ornith.* **54** : 529

*platyrhynchos*, *Anas*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 125

*scandiaca*, *Strix*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 92

**9.** The following are the references for the selection of type species for genera specified in the Ruling given in the present *Direction* :—

For *Anas* Linnaeus, 1758 : Lesson, 1828, *Manuel Ornith.* **2** : 417

*Vireo* Vieillot, 1807 : Gadow, 1883, *Cat. Birds Brit. Mus.* **8** : 292

**10.** The following are the references for the " First Reviser " selections made under Article 28 of the *Règles* in respect of specific

names published in the same work and on the same date specified in the Ruling given in the present *Direction* :—

- (a) For the selection of the name *platyrhynchos* Linnaeus, 1758, as published in the combination *Anas platyrhynchos*, to be a name having precedence over the name *boschas* Linnaeus, 1758, as published in the combination *Anas boschas* :—

Lönnerberg, 1906, *J. Ornith.* **54** : 529

- (b) For the selection of the name *scandiaca* Linnaeus, 1758, as published in the combination *Strix scandiaca*, to be a name having precedence over the name *nyctea* Linnaeus, 1758, as published in the combination *Strix nyctea* :—

Lönnerberg, 1931, *Ibis* (13) **1** : 306

**11. Family-Group-Name Problems :** The family-group-name problems involved in the present case will be dealt with on a later occasion when comprehensive proposals will be submitted to the International Commission in regard to the problems arising in connection with this category of name involved in the Rulings given prior to the end of 1936 in *Opinions* in which the names of genera in the Class Aves were placed on the *Official List of Generic Names in Zoology*.

**12.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

13. The present *Direction* shall be known as *Direction Eighty-One* (81) of the International Commission on Zoological Nomenclature.

DONE in London, this Eleventh day of August, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

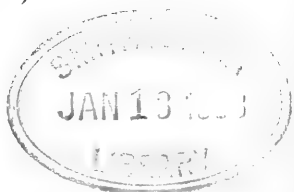
*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

VOLUME 1. SECTION E. Part E.19. Pp. 335—360

## DIRECTION 82

Confirmation of the position on the *Official List of Generic Names in Zoology* of the generic name *Trichoglossus* Stephens, 1826 (Class Aves), subject to the substitution of an amended entry in regard thereto (*Direction* supplementary to *Opinion 67*)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 82

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---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*)

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(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

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Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August 1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y., U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) (12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation, Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*) (29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*) (6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November 1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)

## DIRECTION 82

CONFIRMATION OF THE POSITION ON THE " OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY " OF THE GENERIC NAME " TRICHOGLOSSUS " STEPHENS, 1826 (CLASS AVES), SUBJECT TO THE SUBSTITUTION OF AN AMENDED ENTRY IN REGARD THERETO (" DIRECTION " SUPPLEMENTARY TO " OPINION " 67)

**RULING** :—(1) It is hereby directed that of the generic names *Trichoglossus* Stephens and *Trichoglossus* Vigors & Horsfield, being names published in different works on unknown dates in the year 1826 and each therefore ranking for priority as from 31st December 1826, precedence be given to the name *Trichoglossus* Stephens over the name *Trichoglossus* Vigors & Horsfield.

(2) It is hereby directed that the specific name " *haematod.* " Linnaeus, 1771, as published in the combination *Psittacus haematod.*, being a specific name published in an abbreviated form, be written out as " *haematodus* ", the above completed spelling to be accorded the same priority as that applicable to the abbreviated form " *haematod.* " published by Linnaeus in 1771.

(3) The position of the generic name *Trichoglossus* Stephens, 1826, on the *Official List of Generic Names in Zoology* is hereby confirmed, subject to the deletion of the entry in regard thereto made by the Ruling given in *Opinion* 67 and the insertion in its place of the following revised entry :—

*Trichoglossus* Stephens, 1826, a name having precedence, under (1) above, over the name *Trichoglossus* Vigors

& Horsfield, 1826 (gender : masculine) (type species, by selection by Lesson (1828) : *Psittacus haematodus* (spelling-out, in accordance with (2) above, of the abbreviated form “*haematod.*”) Linnaeus, 1771, as interpreted by the “First Reviser” selection made by Jardine & Selby ([1831]))

(4) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *haematodus* (spelling-out, in accordance with (2) above, of the abbreviated form “*haematod.*”) Linnaeus, 1771, as published in the combination *Psittacus haematod.*, and as interpreted by the “First Reviser” selection made by Jardine & Selby ([1831]) under Article 31 of the *Règles* (specific name of type species of *Trichoglossus* Stephens, 1826) (Name No. 1448)
- (b) *capistratus* Bechstein, 1811, as published in the combination *Psittacus capistratus* (Name No. 1449) ;
- (c) *moluccanus* Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* [sic] var. *moluccanus*, a name having precedence, through the “First Reviser” selection made by Mathews (G.M.) (1916—1917), over the name *novae-hollandiae* (emend. of *novae Hollandia* [sic]) Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* [sic] var. *novae Hollandia* [sic] in the same work and on the same date (Name No. 1450).

(5) The under-mentioned specific names are hereby placed on the *Official Index of Rejected and Invalid*

*Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *haematod.* Linnaeus, 1771, as published in the combination *Psittacus haematod.* (an Invalid, because abbreviated, Original Spelling for *haematodus*) (Name No. 476) ;
- (b) the under-mentioned names, each of which is an Invalid Emendation of *haematodus* (spelling-out of the abbreviation *haematod.*) Linnaeus, 1771, as published in the combination *Psittacus haematod.* :
- (i) *haematotus* Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* (Name No. 477) ;
- (ii) *haematodes* Shaw, 1811, as published in the combination *Psittacus haematodes* (Name No. 478) ;
- (iii) *haematopus* Stephens, 1826, as published in the combination *Trichoglossus haematopus* (Name No. 479).

(6) The under-mentioned generic name is hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* with the Name No. 1060 :

*Trichoglossus* Vigors & Horsfield, 1826 (invalid, under (1) above, as a junior homonym of *Trichoglossus* Stephens, 1826).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* is concerned with the eighth of the nine names of genera in the Class Aves which were placed on the *Official List of Generic Names in Zoology* by the Ruling given in

*Opinion 67*, the entries regarding which were postponed for further examination at the time when in 1956 the International Commission on Zoological Nomenclature in its *Direction 43* reviewed in detail the Ruling given in the foregoing *Opinion*. The proposals which formed the basis of the decisions embodied in the present *Direction* were submitted to the Commission by the Secretary in the following paper on 28th May 1957 :—

**Proposed correction and amplification of the entry relating to the generic name “*Trichoglossus*” Stephens, 1826 (Class Aves) made on the “Official List of Generic Names in Zoology” by the Ruling given in “*Opinion*” 67**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The present paper is designed to place before the International Commission on Zoological Nomenclature certain defects in the entry relating to the generic name *Trichoglossus* Stephens, 1826 (*in Shaw, Gen. Zool.* 14(1) : 129) (Class Aves) made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67* (1916, *Smithson. Publ.* 2409 : 177—182). The problem now to be considered came to light in the course of the preparations for the publication of the *Official List* in book-form. Attention was drawn to this matter in the paper dealing with other questions arising on the above *Opinion* which was submitted to the Commission by myself on 12th October 1955 which has since been published in *Direction 43* (1956, *Ops. Decl. int. Comm. zool. Nomencl.* 1(D) : 171—210). It was then explained (: 187) that the necessary investigations had not been completed but that proposals in regard to the above name would be submitted as soon as possible.

2. Two difficulties arise in connection with the type species of this genus, both of which in the past have been responsible for much confusion. The first question is : “What is the nominal species which under the *Règles* is the type species of the genus *Trichoglossus* Stephens?”. The second question is of a taxonomic character and is : “What is the species represented by the nominal species—whatever that may be—which is the type species of this genus?”. These two questions are considered separately below.

3. Before approaching these problems it is necessary, however, to examine one preliminary matter, namely, the question whether (as

stated in *Opinion 67*) Stephens was in fact the first author to publish the generic name *Trichoglossus* and therefore whether it is his treatment of the name which is relevant in the present case. In his description of this genus Stephens attributed the name *Trichoglossus* to Vigors & Horsfield, without however giving a bibliographical reference to any paper by these authors. Vigors & Horsfield did however publish the name *Trichoglossus* as a new name of their own in a paper published in the *Trans. linn. Soc. Lond.* (15(1) : 287), which, like Stephens' paper, appeared in the year 1826. The question to be considered is therefore whether this name was first published by Stephens or by Vigors & Horsfield. Fortunately, there is important evidence on this subject in Stephens' own hand. From this it is clear that Stephens wrote this part of the *Gen. Zool.* after Vigors & Horsfield had made their communication to the Linnean Society and that it was by this means that he had become acquainted with their intention to introduce the name *Trichoglossus*. This was not, however, the only new name proposed by Vigors & Horsfield in the foregoing communication which was used by Stephens in volume 14 of the *Gen. Zool.* In all there were three such names ; of these, first to be mentioned by Stephens (*loc. cit.* 14(1) : 109) was the name *Calyptorhynchus*, under which he gave the following note :—"The generic characters not having been published, I have merely given the above concise definition and must refer my readers to the fifteenth volume of the Linnean *Transactions*, now in the press, in which you will find them accurately laid down by Mr. Vigors : the same remark may also apply to the genera *Nanodes* and *Trichoglossus* of the same author". No evidence is available regarding the exact date of publication in 1826 of the relevant parts of the *Gen. Zool.* or of Volume 15 of the *Trans. linn. Soc. Lond.* Accordingly, under a provision inserted in the *Règles* by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 223—225) each of these names ranks for purposes of priority as from 31st December 1826, that being the earliest date as from which each is known to have been published. The relative priority to be assigned to any two such names is a matter which can be determined only by a Ruling by the International Commission. It is necessary therefore to consider which of these names it is desirable should be given priority over the other. For this we must fall back upon the information provided by Stephens in the passage quoted above. It is quite clear from that passage that Stephens himself anticipated that his volume containing "concise definitions" of the genera concerned would appear before the paper by Vigors in which those characters would be "accurately laid down" in full. There is therefore a strong and absolutely contemporary presumption that Stephens' volume 14 of the *Gen. Zool.* was published earlier in 1826 than the Vigors & Horsfield paper in the *Trans. linn. Soc. Lond.* This presumption has been accepted as valid by ornithologists, by whom the name *Trichoglossus* has been treated as having been published by Stephens before it was published by Vigors & Horsfield. It was, in fact, so accepted by the Commission in its *Opinion 67*, in which the name *Trichoglossus* was

attributed to Stephens with the significant addition “(Vigors MS.)”. As the question of the relative dates of publication of the two papers can never now be settled by direct evidence, it would be helpful if the Commission were to take the present opportunity to give an explicit Ruling that Stephens’ volume 14 of the *Gen. Zool.* is to be treated for nomenclatorial purposes as having priority over the paper by Vigors & Horsfield in the *Trans. linn. Soc. Lond.*

4. Having now reached the conclusion that the name *Trichoglossus* should be treated as having been first published by Stephens in 1826 (in Shaw, *Gen. Zool.* 14(1) : 130), we may turn to examine his treatment of the nominal genus so established. We find, on doing so, that this genus was established (a) without a designated or indicated type species but (b) with seven included nominal species. Of these, the fifth, sixth and seventh were only doubtfully referred to the genus, and are therefore ineligible for consideration as possible type species. The other four nominal species cited by Stephens were :—(i) *Trichoglossus haematopus* (: 130) (attributed to Gmelin, but first published in this spelling by Stephens on the present occasion) ; (ii) *P. capistratus* (Bechstein, 1811) ; (iii) *T. concinnus* (Shaw, 1791) ; (iv) *T. pusillus* (Latham, 1790). At this point we have to recall that under a decision taken by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 179—180) the nominal species eligible for selection under Rule (g) in Article 30 as the type species of a genus established without a designated or indicated type species are (1) any nominal species cited at the time of the establishment of the genus as being a valid taxonomic species belonging to that genus and (2) any nominal species, the name of which was cited on the above occasion as a synonym of the name of a nominal species then accepted as a valid taxonomic species. Under the second part of the foregoing provision, the nominal species *Psittacus cyanogaster* Shaw, 1811, is eligible for selection as the type species of the genus *Trichoglossus* Stephens because its name was cited by that author in the synonymy of what he there called *Trichoglossus haematopus* (Gmelin). Accordingly the nominal species which alone are eligible for selection as the type species of the genus *Trichoglossus* Stephens are the following :—

- (i) the nominal species cited by Stephens as *Psittacus haematopus* Gmelin, as to which see the further particulars given in paragraph 6 below ;
- (ii) *Psittacus cyanogaster* Shaw, 1811 (*Gen. Zool.* 8(2) : 413) (cited by Stephens in the synonymy of (i) above) ;
- (iii) *Psittacus capistratus* Bechstein, 1811 (*Latham's Uebers. Vögel* 4(1) : 68, pl. 3) ;
- (iv) *Psittacus concinnus* Shaw, 1791 (*Nat. Misc.* 3 : pl. 87) ;
- (v) *Psittacus pusillus* Latham, 1790 (*Index Orn.* : 106).



5. Of the foregoing nominal species the first alone enters seriously into the subsequent history of this case. In view of the misunderstandings which, as will be seen, were entertained by Stephens in regard to this species, it will be well to note exactly what he wrote about it. His entry relating to it was as follows :—

*Tr. haematopus*

*Psittacus haematopus* Gmel. Syst. nat. 1, p. 357

*Psittacus cyanogaster* Shaw, vol. viii, p. 413

Molucca Isles

6. Before we proceed any further, there are three preliminary points in regard to Stephens' entry regarding *Psittacus haematopus* Gmelin, of which it is necessary to take note. The first point is that Stephens either miscopied or erroneously emended the specific name used by Gmelin, the spelling employed by whom, having been "*haematotus*" and not "*haematopus*". Second, Stephens gave a wrong page reference for this name which appeared in Gmelin's work on page 316 and not on page 357, as stated by Stephens. The correct reference for this name is *Psittacus haematotus* Gmelin, 1788, in Linnaeus, *Syst. Nat.* (ed. 13) 1(1) : 316. Third, we have to note that the name *Psittacus haematotus* was not a new name published by Gmelin, the specific name *haematotus* being no more than an Invalid Emendation of *haematod*, a name which in the combination *Psittacus haematod* had been published by Linnaeus in 1771 (*Mantissa Plant.* : 524). Gmelin clearly showed that he was referring back to the nominal species *Psittacus haematod* Linnaeus, 1771, by inserting the reference "Mant. 1771" in the particulars given by him for *Psittacus haematotus*. [As the result either of an error of transcription or of a printer's error, Gmelin cited the page reference to the *Mantissa* as "574" (on which no such name appears) instead of as "524".]

7. Normally, in a case of this kind the next step would be to determine by reference to the literature what is the nominal species which is the type species of the genus *Trichoglossus* Stephens. In the present case it, however, will be more convenient before doing so to examine the question of what is the taxonomic species represented by the nominal species *Psittacus haematod* Linnaeus, 1771, which (as noted above) is one of the originally included nominal species in the foregoing genus through having been cited by Stephens under the name *Psittacus haematopus*, a misspelling by that author of the name *Psittacus haematotus* of Gmelin, itself only an Invalid Emendation of the name *Psittacus haematod* Linnaeus, 1771. As will be seen later this question is of great importance in the present case, incorrect interpretations of the above nominal species having been one of the principal causes of the later confusion in the literature.

8. The nominal species *Psittacus haematod* Linnaeus was a composite based upon two discordant elements, which we may call Species "A"

and Species "B" respectively. In addition, Stephens, when establishing the genus *Trichoglossus* included in the synonymy of this species (cited by him in the variant spelling *haematopus*) a third species which we may call Species "C". The three "species" referred to above are currently regarded as subspecies of a single polytypic species, but this does not detract from the fact that each represents a distinct population which needs to be separated from the other two. The taxa concerned are identifiable as follows :—

#### *Species "A"*

This is the "Red-breasted Parrakeet of Edwards" which occurs in Timor. It was included in the nominal species *Psittacus haematod* by Linnaeus through the citation of the reference "*Psittacus pectore rubro*. *Edw. av.* 45. t. 232".

#### *Species "B"*

This bird was also included by Linnaeus in his *Psittacus haematod*. It occurs (as stated by Linnaeus) in Amboina and is distinguished from Species "A" by the blue edging to the red breast feathers. It was described by Brisson as "*Psittacus amboinensis varia*" in 1760 (*Ornithologia* 4 : 364) and this reference was cited by Linnaeus for his *Psittacus haematod*. Brisson's description was not, however, completely homogeneous, for it included in part a reference to Edwards' Red-breasted Parrakeet which, as noted above is referable to Species "A". In 1783 Species "B" was figured by Buffon (*Hist. nat. Ois.* 7 : Pl. enl. 61) under the name "Perruche d'Amboine".

#### *Species "C"*

This bird, which occurs in Eastern Australia, enters into the present case through the nominal species *Psittacus cyanogaster* Shaw which, as noted in paragraph 4 above, was cited by Stephens as a synonym of what he called *Psittacus haematopus* Gmelin when he placed that species in the genus *Trichoglossus*. Shaw's *Psittacus cyanogaster* was itself a composite, being based partly upon the "Perruche d'Amboine" of Buffon [i.e. Species "B"] and partly upon the "Perruche des Moluques" (*Hist. nat. Ois.* 7 : Pl. enl. 743) of that author which is Species "C".

9. From the particulars given above it will be seen that at the time of its establishment the nominal species *Psittacus haematod* Linnaeus was a composite, comprising both Species "A" and Species "B". It remained in this condition until in [1831] (*Ill. Orn. expl. to pls.* 111, 112) Jardine & Selby pointed out that the foregoing nominal species

(which they referred to under the variant spelling *haematodus*) was a composite, based partly upon Edwards' plate of the "Red-breasted Parrakeet" (i.e. Species "A") and partly upon Species "B", as is shown by the reference to Brisson (: 364) and added that it was this latter bird which was the same as the "*Psittacus amboinensis varia*" of Brisson which was the true *haematodus* of Linnaeus. By this action Jardine & Selby clearly acted as First Revisers, selecting the species from Amboina, styled Species "B" in paragraph 8 above, to be the species to which the name *Psittacus haematod* Linnaeus should apply.

10. As shown in paragraph 6 above, the nominal species *Psittacus haematod* Linnaeus is one of the species included by Stephens in his genus *Trichoglossus*, for *Psittacus haematotus* Gmelin (cited by Stephens under the misspelling *haematopus*) is itself no more than an Invalid Emendation of the *haematod* of Linnaeus. Stephens (1826), in common with other ornithologists who dealt with this subject prior to the appearance of the paper by Jardine & Selby in [1831], did not appreciate the distinction between Species "A" and Species "B" and treated both as belonging to "*haematopus* [sic] Linn.", i.e. to *Psittacus haematod* Linnaeus. Indeed, he went further by identifying Species "C" with the Linnean species by citing in its synonymy the nominal species *Psittacus cyanogaster* Shaw which (as shown in paragraph 8 above) was, when first established, a composite made up partly of Species "B" and partly of Species "C". It will be seen from the above particulars that, although Stephens was very confused in his treatment of the nominal species *Psittacus haematod* Linnaeus, one of the species included by him under this name was Species "B", the species which (as shown in paragraph 9 above) was later selected by Jardine & Selby as First Revisers to be the species to which the specific name *haematod* Linnaeus should exclusively apply. Thus the action taken by Jardine & Selby was not only a valid "First Reviser" selection under Article 31 of the *Règles*, but in addition was in no way inconsistent with the treatment accorded to the name *haematod* Linnaeus by Stephens when establishing the nominal genus *Trichoglossus*. In this connection it should be recalled that by a provision inserted in the *Règles* by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 158—159), when codifying the Rulings given in *Opinion* 65 (1914, *Smithson. Publ.* 2256 : 152—169), as extended by *Opinion* 168 (1945, *Ops. Decls. int. Comm. zool. Nomencl.* 2 : 411—430) an author establishing a nominal genus is, save in certain exceptional circumstances (which do not apply in the present case), to be assumed to have correctly identified the nominal species assigned by him to his new genus. Thus under this provision Stephens would be assumed to have correctly identified the nominal species *Psittacus haematod* Linnaeus when placing it in his new genus *Trichoglossus*, irrespective of any taxonomic doubts which might have been raised by his remarks about that species. Fortunately, in the present case it is clear that Stephens did include

the true *Psittacus haematod* Linnaeus [i.e. Species "B"] when he cited that nominal species (under the misspelled form *haematopus*) in his genus *Trichoglossus*, even though, as is also clear, he incorrectly included other species [Species "A" and Species "C"] under that name.

11. We must next examine the question of the names properly applicable to the species styled Species "A" and Species "C" respectively in paragraph 8 above, partly because under the "Completeness-of-Opinions" Rule this is a matter which should not be left unsettled and partly because, as we shall see (paragraph 13 below) Species "C" re-enters the present case at a later stage as the result of the disregard by some authors of the definitive First Reviser selection made for *Psittacus haematod* Linnaeus by Jardine & Selby (paragraph 9 above).

12. Species "A" as we have seen (paragraph 8 above), is the species which was figured by Edwards in 1758 as the "Red-breasted Parrakeet". Next in 1760 (*Ornithologia* 4 : 364) it was included by Brisson under the non-binominal name "*Psittacus amboinensis varia*", the description given for which applied, however, to Species "B" [the species to which, as shown in paragraph 8 above, the name *Psittacus haematod* Linnaeus applies]. Later in the eighteenth century Species "A" was again included with Species "B" under a single name : (i) by Linnaeus in 1771 under the name *Psittacus haematod* [which, as shown in paragraph 9 above was first rendered determinate by the First Reviser choice in favour of Species "B" made by Jardine & Selby in [1831] ] ; (ii) by Boddaert in 1783 (*Tabl. Pl. enl.* 4 : pl. 61) as *Psittacus haematodus* [a variant of *haematod* Linnaeus] ; and (iii) in 1788 by Gmelin as *Psittacus haematotus* [another variant of *haematod* Linnaeus]. Thus, as the result of its having been misidentified with Species "B", Species "A" was still without a name of its own by the end of the eighteenth century. The next author to deal with Species "A" was Le Vaillant by whom it was figured in 1801 (*Hist. nat. Perr.* : 96, pl. 47), who, however, cited it under the vernacular (French) name "Le Perruche à face bleue", basing it expressly upon Edwards' figure of the "Red-breasted Parrakeet" but not giving it a binominal name. It was not until 1811 that Species "A" at last received a binominal name when Bechstein named it *Psittacus capistratus*, basing this nominal species upon Edwards' plate of the "Red-breasted Parrakeet" and on Le Vaillant's "Le Perruche à face bleue", which (as shown above) was in its turn also based upon Edwards' plate. The specific name *capistratus* Bechstein, 1811, is thus the oldest available name for, and the valid name of, the species discussed above as Species "A". This is the name applied to this taxon by Peters (J.L.) (1937, *Checklist Birds World* 3 : 148), by whom it was treated as the Timor subspecies of *Trichoglossus haematod* (Linnaeus) from Amboina.

13. Species "C" was first distinguished in 1783 (*Hist. nat. Ois.* 7 : Pl. enl. 743) by Buffon who applied to it the vernacular (French)

name "Perruche des Moluques". This species was next dealt with in 1788 (in Linnaeus, *Syst. Nat.* (ed. 13) 1(1) : 316) by Gmelin, by whom it was treated as a "varietas" of what he called *Psittacus haematotus* [a variant of *haematod* Linnaeus], which, as already explained (paragraph 8) was a mixture of Species "A" and Species "B". Gmelin, unfortunately fell into the error of believing that two previously published plates of Species "C" represented different "varieties" of his *Psittacus haematotus* and gave a different name to each. These "varieties" he styled "var.  $\beta$ " and "var.  $\gamma$ " respectively. Var.  $\beta$  was based exclusively upon Buffon's plate 743 of his "Perruche des Moluques", which, as noted above, is the first plate published of Species "C", while var.  $\gamma$  was based upon the "Bluebellied Parrot" figured by Brown (P.) ("Illustr. p. 14.t.7") which also represents Species "C". The first of these "varieties" Gmelin called *Psittacus haematotus* var. *moluccanus* (: 316), the second *Psittacus haematotus* var. *novae Hollandia* [sic]. Two other names given to Species "C" require mention. These are :—(i) *Psittacus cyanogaster* Shaw, 1811, which, as noted in paragraph 4 above) was treated by Stephens when establishing the genus *Trichoglossus*, as a junior synonym of *Psittacus haematod* Linnaeus (cited by him under the variant spelling *haematopus*); (ii) *Trichoglossus swainsoni* Jardine & Selby, [1831] (*Ill. Orn.* : pl. 112). The first of these nominal species was (as has already been noted in paragraph 8 above), a composite consisting partly of Species "B" and partly of Species "C". The nominal species *Trichoglossus swainsoni* was established by Jardine & Selby, and was based upon Buffon's "Perruche des Moluques" which (as explained above) represents Species "C". It was established by Jardine & Selby at the same time that, as First Revisers, they selected Species "B" to be the species to which the name *Psittacus haematod* Linnaeus should apply. One more question remains to be considered in connection with the nomenclature of Species "C", namely, which of the two specific names (*moluccanus* and *novae hollandiae* (emendation of *novae Hollandia*)), published for it by Gmelin in 1788 in the same book and on the same date, is to be preferred to the other. The name *novae hollandiae* Gmelin had become well established for Species "C" by the end of the nineteenth century, but this was due to the fact that it was believed to be the oldest name for that species, a view taken without reference to the competing claims of *moluccanus* Gmelin. The first author to discuss these names in relation to one another was Mathews (G.M.) ([1916—1917], *Birds Australia* 6 : 9—12) who showed that they applied to the same taxon. In the belief that in such a case relative precedence was determinable by the principle of page and line precedence Mathews replaced the then currently accepted name *novae hollandiae* by the name *moluccanus* (: 12), at the same time expressing regret that this change of name should be necessary (: 25). The grounds on which Mathews took this action were incorrect, but this does not invalidate his action which constitutes a valid "First Reviser" selection of *moluccanus* Gmelin as a name to be used in preference to *novae hollandiae* Gmelin. In due course the change came to be

accepted and it is under the name *moluccanus* Gmelin that this taxon appeared in 1937 in Peters' *Checklist of the Birds of the World* (3 : 151).

14. We must now revert to the question of which of the nominal species included by Stephens in the genus *Trichoglossus* is under the *Règles* the type species of that genus. An examination of the literature shows that the first author to make a type selection for the genus *Trichoglossus* was Lesson who in 1828 (*Manuel Ornith.* 2 : 147) wrote :—" Le type de ce genre est le *psittacus* [sic] *haematodus* des Moluques ". This is an unequivocal selection of *Psittacus haematod* Linnaeus as the type species of *Trichoglossus*. It cannot be held to be invalidated by the fact that Lesson stated that this species occurs in the Moluccas (thereby implying that he was speaking, at least in part), of Species " C ", and not of Species " B " [the true *Psittacus haematod* of Linnaeus], for under a decision taken by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 158), when codifying the Ruling given in *Opinion* 14 (1910, *Smithson. Publ.* 1938 : 25—27), a type selection made under Rule (g) in Article 30 is not invalidated if the author making that selection himself misidentifies the nominal species which he so selects. (It may be worth noting that, even if the foregoing provision had not been inserted in the *Règles* and if in consequence Lesson's type selection had been invalid, the nominal species *Psittacus haematod* Linnaeus would still have been the type species of *Trichoglossus* Stephens, for it was unequivocally so selected by Gray (G.R.), the first subsequent author to select one of the originally included nominal species to be the type species of the genus *Trichoglossus* Stephens, (Gray, 1840, *List Genera Birds* : 51). Gray certainly interpreted the above nominal species correctly, as shown by his reference to the " First Reviser " selection made by Jardine & Selby ([1831]).

15. Having now (a) established that the type species of the genus *Trichoglossus* Stephens, 1826, is *Psittacus haematod* Linnaeus, 1771 (by selection by Lesson, 1828) and (b) determined as Species " B " the taxon represented by that nominal species, we are in a position at last to examine the entry relating to the foregoing name made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67 for the purpose of ascertaining to what extent this entry requires to be amended. The entry in question reads as follows :—

*Trichoglossus* (Vigors MS.) Stephens, General Zool. 14, i, 1826, 129.  
T[type species by] s[ubsequent] d[esignation]., Swainson, 1832  
*swainsoni* Jardine & Selby, 1831 = *haematopus* Stephens (nec  
*haematodus* Linn.) = *Psittacus novae hollandiae* [sic] Gmelin.

16. The foregoing entry provides a particularly glaring example of the difficulties to be expected if, as was formerly the case, entries on the *Official List of Generic Names in Zoology* contain subjective synonymies instead of being confined to objective nomenclatorial facts. It is not

surprising therefore that shortly after the publication of this *Opinion* it became the object of severe criticism by Mathews in Volume 6 of his *Birds of Australia*. But it is not only in form that this Ruling was defective, for in addition it contained major errors on questions of nomenclatorial fact. Thus while it is true that Swainson did make a type-selection for this genus in 1832, as stated in *Opinion* 67—the reference being Swainson, 1832, *Zool. Illustr.* (2) 3 : expl. pl. 92—he was not the first author to make such a selection, this having been done four years earlier by Lesson. Second, if Swainson's type selection had been the first to have been made, it would have been invalid because the nominal species which he so selected—*Trichoglossus swainsoni* Jardine & Selby, [1831]—was not included by Stephens in his genus *Trichoglossus* when he established it in 1826 and indeed by reason of its date could not then have been so included. Finally, the inclusion in the above *Opinion* of the complicated synonymy for the type species then given was designed to suggest that the type species of *Trichoglossus* was what we have called Species "C" instead of, as in fact it is, Species "B", i.e. *Psittacus haematod* Linnaeus, 1771, as interpreted by the "First Reviser" selection made by Jardine & Selby ([1831]). The citation in the Ruling under discussion of the specific name *novaehollandiae* Gmelin was presumably intended to underline the contention that the type species of *Trichoglossus* Stephens was Species "C", to which (as shown in paragraph 13 above) the name *novaehollandiae* Gmelin applies.

17. At this point it is necessary to consider whether the correction at the present date of the erroneous entry on the *Official List* made by the Ruling given in *Opinion* 67 in relation to the type species of the genus *Trichoglossus* Stephens—i.e. the correction of the statement in that Ruling that the type species of this genus is Species "C" (which it is not) instead of Species "B" (which it is)—would (i) involve a change in the concept represented by that nominal genus or (ii) give rise to change in current nomenclatorial practice, for, if the answer to either of the foregoing questions were to be in the affirmative, it would be necessary to consider whether in the interests of nomenclatorial stability it would be desirable to use the Plenary Powers to validate the substance (though not the form) of the Ruling given in the above *Opinion*. Fortunately, the answers to both the foregoing questions are in the negative. The acceptance as the type species of *Trichoglossus* Stephens of Species "B" [i.e. *Psittacus haematod* Linnaeus], the species which is the type species under the *Règles*, in place of Species "C" [i.e. *Psittacus haematod* var. *moluccanus* Gmelin, 1788], the nominal species erroneously sought to be set up as the type species by the Ruling given in *Opinion* 67, would involve no change in the concept represented by the nominal genus *Trichoglossus* Stephens, for the taxa represented by the foregoing nominal units are currently regarded as being congeneric with one another and indeed are treated by some authors (e.g. Peters, 1937) as being no more than subspecies of a single species.

Second, the acceptance as the type species of *Trichoglossus* Stephens of *Psittacus haematod* Linnaeus, the true type species of that genus, in place of Species "C" [i.e. *Psittacus haematotus* var. *moluccanus*, Gmelin], the false type species set up by *Opinion* 67, would involve no change in current practice, the nominal species *Psittacus haematod* Linnaeus being today correctly accepted as the type species of *Trichoglossus* Stephens. It is apparent therefore that there is no case for the use of the Plenary Powers to validate the Ruling given in *Opinion* 67 and that all that is required is that the defects in that Ruling should now be corrected.

18. We have now to consider what other action is called for in the present case. First, under the General Directive issued to the Commission by the Thirteenth International Congress of Zoology, Paris, 1948, in regard to the placing on the *Official List of Specific Names in Zoology* of the specific names of the type species of genera, the names of which are placed on the *Official List of Generic Names in Zoology*, it is necessary that the specific name *haematod* Linnaeus, 1771, as published in the combination *Psittacus haematod*, as being the specific name of the type species of *Trichoglossus* Stephens, should be placed on the *Official List of Specific Names in Zoology*. The entry so made should bear an endorsement that this nominal species is to be interpreted by reference to the "First Reviser" selection made by Jardine & Selby ([1831]). Second, under the General Directive relating to completeness of *Opinion* issued by the same Congress the names of the two other species involved in the present case, i.e. those which have been styled Species "A" and Species "C" respectively should also be then placed on the above *Official List*. As has already been established (paragraphs 12 and 13) the names so concerned are *capistratus* Bechstein, 1811, as published in the combination *Psittacus capistratus*, and *moluccanus* Gmelin, 1788, as published in the combination *Psittacus haematotus* var. *moluccanus*. To the entry relating to the latter name there should be added an endorsement that this name has precedence over the name *novae-hollandiae* Gmelin, 1788, as published in the combination *Psittacus haematotus* var. *novae Hollandia* [sic], through the First Reviser selection made by Mathews (G.M.), [1916—1917]. Third, there should be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* the various Invalid Emendations of the specific name *haematod*. Linnaeus, 1771, as published in the combination *Psittacus haematod*, the existence of which so greatly complicate the consideration of the present case. The names concerned are :—(i) *haematodus* Boddaert, 1783 (*Psittacus*) ; (ii) *haematotus* Gmelin, 1788 (*Psittacus*) ; (iii) *hematodes* Shaw, 1811 (*Psittacus*) (*Gen. Zool.* 8(2) : 415) ; (iv) *haematopus* Stephens, 1826 (*Trichoglossus*). Finally, the name *Trichoglossus* Vigors & Horsfield, 1826 (discussed in paragraph 3 above) should, as a junior homonym of *Trichoglossus* Stephens, 1826, be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.



19. No family-group-name problem arises in the present case, the genus *Trichoglossus* Stephens, 1826, being currently placed in the family PSITTACIDAE.

20. In the light of the considerations set out in the foregoing paragraphs the International Commission on Zoological Nomenclature is recommended to take the following action in relation to the entry regarding the name *Trichoglossus* Stephens, 1826, made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67*, namely :—

- (1) to confirm explicitly the Ruling given implicitly in *Opinion 67* that of the names *Trichoglossus* Stephens and *Trichoglossus* Vigors & Horsfield, these being names published in different works on unknown dates in 1826 and each therefore ranking for priority as from 31st December 1826, precedence be given to the name *Trichoglossus* Stephens over the name *Trichoglossus* Vigors & Horsfield ;
- (2) to delete from the *Official List of Generic Names in Zoology* the entry in regard to the generic name *Trichoglossus* Stephens 1826, and to insert in its place the following revised entry :—  
*Trichoglossus* Stephens, 1826 (gender : masculine) (type species, by selection by Lesson (1828) ; *Psittacus haematod* Linnaeus, 1771, as interpreted by the "First Reviser" selection made by Jardine & Selby, ([1831]).
- (3) to place the under-mentioned specific names on the *Official List of Specific Names in Zoology* :
  - (a) *haematod* Linnaeus, 1771, as published in the combination *Psittacus haematod*, interpreted as specified in (2) above (specific name of type species of *Trichoglossus* Stephens, 1826) ;
  - (b) *capistratus* Bechstein, 1811, as published in the combination *Psittacus capistratus* ;
  - (c) *moluccanus* Gmelin, 1788, as published in the combination *Psittacus haematotus* var. *moluccanus*, a name having precedence over the name *novae-hollandiae* (emend. of *novae Hollandia* [sic]) Gmelin, 1788, as published in the combination *Psittacus haematotus* var. *novae Hollandia* [sic] in the same work and on the same date through the "First Reviser" selection made by Mathews (G.M.) ([1916—1917]) ;
- (4) to place the under-mentioned specific names, each of which is an Invalid Emendation of *haematod* Linnaeus, 1771, as published

in the combination *Psittacus haematod*, on the *Official Index of Rejected and Invalid Specific Names in Zoology* :

- (a) *haematodus* Boddaert, 1783, as published in the combination *Psittacus haematodus* ;
- (b) *haematotus* Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* ;
- (c) *haematodes* Shaw, 1811, as published in the combination *Psittacus haematodes*
- (d) *haematopus* Stephens, 1826, as published in the combination *Trichoglossus haematopus* ;

(5) to place the under-mentioned generic name on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—

*Trichoglossus* Vigors & Horsfield, 1826 (invalid under (1) above as a junior homonym of *Trichoglossus* Stephens, 1826).

21. *Acknowledgments* : I have to acknowledge my indebtedness to the assistance given by my colleague the late Dr. James L. Peters in unravelling the complicated history of this case. I should like to express my gratitude also to Miss D. N. Noakes, B.Sc., of this Office, for the detailed investigation of the literature which she later undertook for the purpose of enabling me to follow up the general indications kindly furnished by Dr. Peters.

**2. Registration of the present application** : Upon the receipt of Mr. Hemming's paper the question of the revision of the entry on the *Official List of Generic Names in Zoology* relating to the generic name *Trichoglossus* was allotted the Registered No. Z.N.(S.) 1055.

## II. THE DECISION OF THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(57)7** : On 28th May 1957 a Voting Paper (V.P.(O.M.)(57)7) was issued in which each

Member of the Commission was asked (1) to state whether he agreed " that (a) in conformity with the General Directive issued to the International Commission on Zoological Nomenclature by the Thirteenth International Congress of Zoology, Paris, 1948, relative to the placing on the appropriate *Official Lists* and *Official Indexes* of names dealt with in, or otherwise involved in, *Opinions* rendered prior to 1948, and (b) in conformity with the further Directive issued by the foregoing Congress in relation to the correction of any errors that might be detected in Rulings given in *Opinions* rendered during the said period, approval be now given to the action in relation to the generic name *Trichoglossus* Stephens, 1826 (Class Aves), a name placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67, as set out in paragraph 20 of the paper bearing the Registered No. Z.N.(S.) 1055 submitted by the Secretary simultaneously with the present Voting Paper " [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*] and (2), if he did not so agree as regards any given item, to indicate that item.

**4. Withdrawal from the scope of Voting Paper V.P.(O.M.)(57)7 of the proposals submitted therewith in relation to the spelling of the specific name of the type species of the genus " *Trichoglossus* " Stephens, 1826 :** On 17th June 1957 there was received a note annexed by Professor Ernst Mayr to his copy of Voting Paper V.P.(O.M.)(57)7 in which it was stated that, when citing the specific name of the type species of the genus *Trichoglossus* Stephens, 1826, almost all ornithologists spelled out that name in full as *haematodus* in place of using the form "*haematod.*" in which it had been published by Linnaeus in 1771. On the receipt of this communication Mr. Hemming, as Secretary, took the view that the issue so raised was one which required further investigation and the submission to the Commission of separate proposals. Accordingly, on 18th June 1957, Mr. Hemming executed a Minute (a) withdrawing from the scope of the foregoing Voting Paper the question of the spelling to be used for the foregoing specific name and (b) directing that the question so reserved be investigated with all practicable despatch with a view to the submission to the Commission of a separate Voting Paper in regard thereto.

**5. The Prescribed Voting Period for Voting Paper V.P.(O.M.) (57)7 :** As Voting Paper V.P.(O.M.)(57)7 was issued under the One-Month Rule, the Prescribed Voting Period in respect of that Voting Paper closed on 28th June 1957.

**6. Particulars of the Voting on Voting Paper V.P.(O.M.)57)7 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(57)7, as restricted by the Minute executed by the Secretary on 18th June 1957, to which reference has been made in paragraph 4 of the present *Direction*, was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Riley ; Lemche ; Stoll ; Hering ; Holthuis ; Bradley (J.C.) ;  
Esaki ; Hankó ; Dymond ; Vokes ; Key ; Jaczewski ;  
Mertens ; Sylvester-Bradley ; Tortonese ; Bodenheimer ;  
Boschma ; Mayr ; Hemming ; Cabrera ; Prantl ; Kühnelt ;  
Bonnet ; do Amaral ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned, one (1) :*

Miller.

**7. Declaration of Result of Vote on Voting Paper V.P.(O.M.) (57)7 :** On 29th June 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(57)7, signed a Certificate that the Votes cast were as set out in paragraph 6 above and declaring that the proposal submitted in the foregoing Voting Paper, exclusive of the proposal specifically withdrawn therefrom by the Minute executed by the Secretary on 18th June 1957, had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**8. Submission of proposals for the determination of the relative status of the spellings “ haematod ” and “ haematodus ” for the**

specific name of the type species of the genus "Trichoglossus" Stephens, 1826 : On 1st July 1957, Mr. Hemming prepared for the consideration of the International Commission the following paper in which he set out the problems involved in connection with the spelling to be adopted for the specific name published in the form "haematod." in the combination *Psittacus haematod.* by Linnaeus in 1771 and recommended that for the reasons there advanced the Commission should give a Ruling that this name should be spelled to form the name "haematodus" :—

**Proposed approval of the spelling out in full of the specific name of the type species of the genus "Trichoglossus" Stephens, 1826 (Class Aves) originally published in abbreviated form**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

By the vote just concluded on Voting Paper V.P.(O.M.)(57)7 the International Commission has approved the proposals submitted with that Voting Paper for the correction and amplification of the entry relating to the generic name *Trichoglossus* Stephens, 1826 (Class Aves), made on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 67*.

2. In returning his affirmative vote on the above case Professor Ernst Mayr raised a point of detail which I regret that I had overlooked when preparing the proposals submitted to the Commission in regard to the above case but which I consider must now be placed before the Commission. This is concerned with the spelling to be adopted for the specific name of the type species of the genus *Trichoglossus* Stephens. As explained in the paper submitted in this case, this name was spelt "haematod." by Linnaeus when in 1771 he published it in the combination *Psittacus haematod.* As was explained also in the paper referred to above, this name was amended to "haematodus" by Boddaert in 1783. Various other spellings were also used by subsequent early authors (see paragraph 20(4) of the paper submitted in this case).

3. The original spelling *haematod* was employed by Peters (J.L.) in his *Check-List of Birds of the World* and this spelling was recommended for adoption in the paper referred to above. In making this recommendation I overlooked two considerations, namely :—

- (a) that, with the exception of Mathews and Peters, all ornithologists for many years past have written out in full as *haematodus* the name published by Linnaeus as *haematod.* ;
- (b) that in the *Mantissa Plantarum* in which Linnaeus published this name a considerable number of specific names were published

in abbreviated form. Examples of cases of this sort in the above work are provided by the names *Lanius leucoryn.*, *Psittacus mascarin.*, and *Carabus bimacul.* The fact that these and similarly published specific names are in abbreviated form was indicated by Linnaeus by the addition of the full stop at the end of the word. (It must be added that in one or two cases full stops were added in this way at the end of names which were clearly not in abbreviated form. This slight lack of consistency is presumably attributable to defective proof-reading. In the special cases concerned, the nature of the word is such as to make it quite clear that the word is not in abbreviated form.)

4. The question of the treatment to be accorded to specific names published in abbreviated form was discussed between Professor Mayr and myself shortly before the Copenhagen Congress in 1953 and it was then agreed between us that at a convenient time the Commission should be asked to give a Ruling that in cases of this sort—the particular case then under consideration was a specific name published in the form “*americ.*”—the name was to be written out in full by later authors in all cases (i) where it was clear that the word was abbreviated and (ii) where there could be no doubt as to what the full form of the word should be, and that in other cases, the problem should be referred to the Commission for decision. A proposal for the adoption of a *Declaration* of this sort has recently been submitted to the Commission (1957, *Bull. zool. Nomencl.* **13** : 210—212).

5. It is important here to note that we are not concerned with the emendation of a name (which would require the use by the Commission of its Plenary Powers) but with the spelling-out of a name published in abbreviated form. In these circumstances and having regard to the statement communicated to this Office by Professor Mayr that the attempt by Peters to reject the spelling-out to *haematodus* made by Boddaert in 1783 in favour of the abbreviated spelling *haematod.* used by Linnaeus in 1771 has been uniformly rejected by all recent monographers, the present seems a particularly appropriate example of a case where the spelling-out of a name originally published in abbreviated form should be accepted by the Commission. In urging this course, Professor Mayr stresses the importance of the action recommended from the point of view of stability in the nomenclature of the group concerned and the fact that any other decision would run counter to the current practice of specialists when dealing with specific names such as “*americ.*”, “*merid.*”, etc.

6. In view of the importance of clearing up with as little delay as possible all outstanding matters relating to entries already made on the *Official List of Generic Names in Zoology*, so that the projected publication of the *Official List* in book-form may take place as soon as possible, it is recommended that the following modifications be approved by the Commission in the proposals submitted to it on 28th May 1957

in the paper bearing the number Z.N.(S.) 1055 submitted with Voting Paper V.P.(O.M.)(57)7 :—

- (1) that a Ruling be given that the specific name "*haematod.*" Linnaeus, 1771, published in the combination "*Psittacus haematod.*", being a specific name published in an abbreviated form, be written out in full as "*haematodus*", the above completed spelling to be accorded the same priority as that applicable to the abbreviated form "*haematod.*" published by Linnaeus in 1771 ;
- (2) that the name *haematod.* Linnaeus, 1771 as published in the combination *Psittacus haematod.*, be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with a note that the name so published was an abbreviation of the name *haematodus*.

**9. Issue of Voting Paper V.P.(O.M.)(57)10 :** On 3rd July 1957, a Voting Paper (V.P.(O.M.)(57)10) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the spelling-out of the specific name of the type species of the genus *Trichoglossus* Stephens, 1826 (Class Aves), as set out in Points (1) and (2) in paragraph 6 of the paper bearing the Registered No. Z.N.(S.) 1055 submitted by the Secretary simultaneously with the present Voting Paper " [i.e. in the paragraph numbered as above in the paper reproduced in paragraph 8 of the present *Direction*].

**10. The Prescribed Voting Period for Voting Paper V.P.(O.M.)(57)10 :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 3rd August 1957.

**11. Particulars of the Voting on Voting Paper V.P.(O.M.)(57)10 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(57)10 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Lemche ; Holthuis ; Mertens ; Sylvester-Bradley ; Stoll ; Vokes ; Mayr ; Kühnelt ; Tortonese ; do Amaral ; Hering ; Jaczewski ; Key ; Bodenheimer ; Hankó ; Hemming ; Esaki ; Cabrera ; Prantl ; Dymond ; Bradley (J.C.) ; Boschma ; Bonnet ; Miller ;

(b) *Negative Votes* :

None ;

(c) *On leave of absence, one (1)* :

Riley ;

(d) *Voting Papers not returned* :

None.

**12. Declaration of Result of Vote on Voting Paper V.P.(O.M.) (57)10 :** On 4th August 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(57)10, signed a Certificate that the Votes cast were as set out in paragraph 11 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**13. Status of the specific name "haematodus" Boddaert, 1783, as published in the combination "Psittacus haematodus" :** In anticipation of the preparation of the Ruling to be given in the present case, Mr. Hemming, as Secretary, on 10th August 1957 executed a Minute placing on record that, consequent upon the decision taken by the Commission in its vote on Voting Paper V.P.(O.M.)(57)10 that the spelling *haematod.* Linnaeus, 1771, as published in the combination *Psittacus haematod.*, is to be treated as being an abbreviation of the spelling "*haematodus*", that spelling as used (in the same combination) by Boddaert in 1783, had ceased to be an emendation of the specific name *haematod.* Linnaeus, being in fact no more than the first correct subsequent spelling of that name. In the same Minute Mr. Hemming added that in consequence the proposal that the above name as published by Boddaert should, as an Invalid Emendation of *haematod.* Linnaeus, be placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* included in the paper (paragraph 1 above) submitted to the Commission in May 1957 with Voting Paper V.P.(O.M.)(57)7 (paragraph 3 above) had ceased to be applicable and was therefore to be treated as having been withdrawn.



**14. Preparation of the Ruling given in the present " Direction " :**

On 12th August 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.(57)7, as supplemented by the vote taken on Voting Paper V.P.(O.M.)(57)10, as clarified on one point of detail by the Minute executed by the Secretary on 10th August 1957 (paragraph 13 above).

**15. Original References :** The following are the original references for the names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*capistratus*, *Psittacus*, Bechstein, 1811, *Latham's Uebers. Vögel* 4(1) : 68, pl. 3

*haematod.*, *Psittacus*, Linnaeus, 1771, *Mantissa Plant.* : 524

*haematodes*, *Psittacus*, Shaw, 1811, *Gen. Zool.* 8(2) : 415

*haematodus*, *Psittacus*, Linnaeus, 1771 (a spelling-out of *haematod.*, *Psittacus*, Linnaeus, 1771, first published by Boddaert, 1783, *Tabl. Pl. enl.* : 4, pl. 61)

*haematopus*, *Trichoglossus*, Stephens, 1826, in Shaw, *Gen. Zool.* 14(1) : 130

*haematotus*, *Psittacus*, Gmelin (J.F.), 1788, in Linnaeus, *Syst. Nat.* (ed. 13) 1(1) : 316.

*moluccanus*, *Psittacus haematotus* var., Gmelin (J.F.), 1788, in Linnaeus, *Syst. Nat.* (ed. 13) 1(1) : 316

*Trichoglossus* Vigors & Horsfield, 1826, *Trans. linn. Soc. Lond.* 15(1) : 287

**16.** The following is the reference for the selection of the type species for the genus *Trichoglossus* Stephens, 1826, specified in the Ruling given in the present *Direction* :—

Lesson, 1828, *Manuel Ornith.* 2 : 147

**17.** The following is the reference for the " First Reviser " selection made under Article 28 of the *Règles* under which the

specific name *moluccanus* Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* [sic] var. *moluccanus*, takes precedence over the specific name *novaehollandiae* (emend. of *novae Hollandia* [sic]) Gmelin (J.F.), 1788, as published in the combination *Psittacus haematotus* [sic], var. *novae Hollandia* [sic], a name published in the same work and on the same date :—

Mathews (G.M.), [1916—1917], *Birds Australia* 6 : 9—12

18. The following is the reference for the “First Reviser” selection made under Article 31 of the *Règles* for the interpretation of the nominal species *Psittacus haematodus* (spelling-out of the abbreviated form “*haematod.*”) Linnaeus, 1771 :—

Jardine & Selby, [1831], *Ill. Orn.* : expl. to pls. 111, 112

19. **Family-Group-Name Aspect :** No family-group-name problem arises in connection with the present case, the genus *Trichoglossus* Stephens, 1826, that genus being currently referred to the family PSITTACIDAE.

20. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

21. The present *Direction* shall be known as *Direction Eighty-Two* (82) of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of August, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

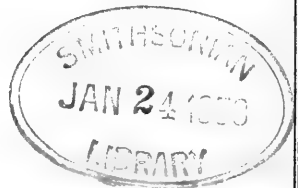
**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

VOLUME 1. SECTION E. Part E.20. Pp. 361—370

## DIRECTION 83

Suppression under the Plenary Powers of the specific name *ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox* (Class Aves) (*Direction Supplementary to Opinion 67*)



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 83

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

SEÑOR Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
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Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,  
Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt  
a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu  
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Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(12th August 1953)

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(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November  
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,  
Massachusetts, U.S.A.*) (4th December 1954)

Professor ENRICO TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)

## DIRECTION 83

SUPPRESSION UNDER THE PLENARY POWERS OF THE  
SPECIFIC NAME " FEROX " GMELIN (S.G.), 1771, AS  
PUBLISHED IN THE COMBINATION " ACCIPITER  
FEROX " (CLASS AVES) (" DIRECTION " )  
SUPPLEMENTARY TO " OPINION " 67)

**RULING** :—(1) Under the Plenary Powers the specific name *ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox* (Class Aves), is hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy.

(2) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1461 :—

*gallicus* Gmelin (J.F.), 1788, as published in the combination *Falco gallicus* (specific name of type species of *Circaetus Vieillot*, 1816) (Class Aves).

(3) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid*

*Specific Names in Zoology* with the Name Number 486 :—

*ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox*, as suppressed under the Plenary Powers in (1) above.

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The present *Direction* is concerned to secure the position of the specific name *gallicus* Gmelin (J.F.), 1788, as published in the combination *Falco gallicus*, the position of which had been threatened at various times on the ground that it was a junior subjective synonym of the specific name *ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox*. The nominal species *Falco gallicus* Gmelin is the type species of the genus *Circaetus* Vieillot, 1816, a name which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 67, and it was in connection with the preparation for publication in book-form of this portion of the *Official List* that the issue referred to above came to light. The present problem was placed before the International Commission by the Secretary in the following paper on 21st February 1956 :—

**Proposed suppression under the Plenary Powers of the specific name “ferox” Gmelin (S.G.), 1771, as published in the combination “Accipiter ferox” (Class Aves) (application submitted to secure a clarification of “Opinion” 67)**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The purpose of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers to suppress the specific name *ferox* Gmelin (S.G.), 1771 (*Nov. Comment. Acad. Sci. imp. Petrop.* 15 : 442), as published in the combination *Accipiter ferox*, in order to provide an assured position for the specific name *gallicus* Gmelin (J.F.), 1788 (*in* Linnaeus, *Syst. Nat.* (ed. 13) 1(1) : 259), as published in the combination *Falco gallicus*, the specific name of the type species of *Circaetus* Vieillot, 1816, a name which was placed on the *Official List of Generic Names in Zoology* by the Ruling given by the International Commission in *Opinion* 67 (1916; *Smithson. Publ.* 2409 : 177—182).

2. This matter is one of considerable urgency, for arrangements are now well advanced for the early publication of the *Official Lists* in book-form and the present is one of a relatively small number of cases where further action by the Commission is required before publication can take place.

3. The present case arises out of a General Directive issued by the Thirteenth International Congress of Zoology, Paris, 1948, which placed upon the International Commission the obligation (a) to enter on the *Official List of Specific Names in Zoology* the specific name of the type species of every genus, the name of which had prior to that date been placed on the *Official List of Generic Names in Zoology*, where that name was the oldest available such name for the species concerned and, (b) in other cases to place on the *Official List* whatever might be found to be the oldest available name for the species in question.

4. Towards the close of 1955 steps were taken by the International Commission to comply with the foregoing Directive in so far as it applied to the names of the type species of genera of birds which had been placed on the *Official List* before the Paris Congress of 1948.<sup>1</sup> At this point Professor Ernst Mayr drew attention to the fact that the specific name *gallicus* Gmelin, 1788, would remain threatened until the name *ferox* Gmelin, 1771, as published in the combination *Accipiter ferox*, had been placed on the *Official Index of Rejected and Invalid Specific Names in Zoology*. In this connection he recalled that he had discussed this name in a paper which he had communicated to the Office of the International Commission some three weeks earlier. For the purposes of the present application the portion of Professor Mayr's paper relating to the name *Accipiter ferox* Gmelin has been extracted and is annexed hereto. It will be seen from Professor Mayr's paper that in the period from 1934—1944 various authors attempted to identify the foregoing nominal species with *Falco gallicus* Gmelin and consequently sank *gallicus* Gmelin as a junior subjective synonym of *ferox* Gmelin but that since 1944 the nominal species *Accipiter ferox* Gmelin had been universally accepted as indeterminable, the name *ferox* Gmelin being therefore treated as a *nomen dubium*.

5. In the paper referred to above Professor Mayr, who was not at that time aware that the name *ferox* Gmelin affected an existing entry on the *Official List*, proposed that the names enumerated in it should be dealt with under the notification and challenge procedure laid down by the Copenhagen Congress for the purpose of providing a means for securing immediate provisional protection for names, to be followed after a considerable period of years either by automatic permanent protection or by submission to the International Commission for the

---

<sup>1</sup> The decisions taken by the International Commission in this matter have since been embodied in *Direction 43* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 1 (D) : 171—210).

purpose of securing such protection. For the reasons explained in paragraphs 2 and 3 above, this slow-moving procedure is inappropriate in the present case, since the question is one which must be determined promptly in order to permit of the addition to the *Official List of Specific Names in Zoology* of the name *gallicus* Gmelin, 1788, before the *Official List* volume is sent to be printed.

6. Accordingly, I now ask the International Commission :—

- (1) in the light of the information provided by Professor Mayr, to use its Plenary Powers to suppress the specific name *ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox*, for the purposes of the Law of Priority but not for those of the Law of Homonymy ;
- (2) to place the specific name *gallicus* Gmelin (J.F.), 1788, as published in the combination *Falco gallicus* (specific name of type species of *Circaetus Vieillot*, 1816) on the *Official List of Specific Names in Zoology* ;
- (3) to place on the *Official Index of Rejected and Invalid Specific Names in Zoology* the specific name specified in (1) above, as there proposed to be suppressed under the Plenary Powers.

#### ANNEXE

##### Note on the specific name “*ferox*” Gmelin (S.G.), 1771, as published in the combination “*Accipiter ferox*”

(extract from a paper (Z.N.(S.) 1033) entitled “The Names of Nominal Species of Birds to be placed on the “Official Index of Rejected and Invalid Specific Names in Zoology”)

By ERNST MAYR

(*Museum of Comparative Zoology at Harvard College,  
Cambridge, Massachusetts, U.S.A.*)

##### “*Accipiter ferox*” Gmelin

*Accipiter ferox* Gmelin (S.G.), 1771, *Novi. Comment. Acad. Petrop.* **15**(1770) : 442, pl. X “Astrachan”

This name has a chequered history. In the *Vögel pal. Fauna* (: 1115) Hartert uses it for the bird now called *Buteo rufinus* Cretzschmar. Hartert later realised that the name *ferox* was not applicable to this species (*op. cit.* : 1189) and it was discarded as unidentifiable. Claude Grant (1934, *Ibis* (13) **4** : 643) tried to show that the description of *Accipiter ferox* applied better to the Short-Toed Eagle (*Circaetus gallicus*) than to any other hawk and proposed to sink *gallicus* into the synonymy of *ferox*. This proposal was, for a while, accepted by



several authors until Mayr showed (1944, *Emu* 43 : 302—304) that the original description of *Accipiter ferox* contains too many contradictions to be applied to the Short-Toed Eagle or any other hawk. This conclusion has since been adopted by Grant and all other recent authors and the name is now universally considered as indeterminate.

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's paper, the question of the suppression under the Plenary Powers of the specific name *ferox* Gmelin (S.G.), 1771, as published in the combination *Accipiter ferox* (Class Aves) was allotted the Registered Number Z.N.(S.) 1052.

**3. Publication of the present application :** The present application was sent to the printer on 29th February 1956 and was published on 20th July of the same year in Part 4 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Hemming, 1956, *Bull. zool. Nomencl.* 12 : 120—122).

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* 4 : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 20th July 1956 (a) in Part 4 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's application was published) and (b) to the other prescribed serial publications. In addition such Notice was given to four general zoological serial publications and to twelve ornithological serials in various parts of the world.

**5. Support received from Ernst Mayr (Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.) :** As shown in the Annexe to the present application (i.e. in the Annexe to the paper reproduced in the first paragraph of the present *Direction*) the action recommended in the present case was supported by Professor Ernst Mayr (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*).

**6. No objection received :** No objection to the action proposed in the present case was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**7. Issue of Voting Paper V.P.(57)13 :** On 15th February 1957 a Voting Paper (V.P.(57)13) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to the specific name *ferox* Gmelin (S.G.), as published in the combination *Accipiter ferox* (Class Aves), as set out in Points (1) to (3) in paragraph 6 on page 121 of Volume 12 of the *Bulletin of Zoological Nomenclature* " [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**8. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 15th May 1957.

**9. Particulars of the Voting on Voting Paper V.P.(57)13 :** At the close of the Prescribed Voting Paper, the state of the voting on Voting Paper V.P.(57)13 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Boschma ; Mayr ; Lemche ; Hering ; Prantl ; Holthuis ;  
Bonnet ; Mertens ; Dymond ; Vokes ; Bodenheimer ;  
Bradley (J.C.) ; Key ; Riley ; Stoll ; Esaki ; do Amaral ;  
Jaczewski ; Hemming ; Kühnelt ; Sylvester-Bradley ;  
Cabrera ; Tortonese ; Miller ;

(b) *Negative Votes* :

None ;

(c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1)* :

Hankó ;

(d) *Voting Papers not returned* :

None.

**10. Declaration of Result of Vote** : On 16th May 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)13, signed a Certificate that the Votes cast were as set out in paragraph 9 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**11. Preparation of the Ruling given in the present " Direction " :** On 10th September 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)13.

**12. Original References** : The following are the original references for the names placed on the *Official List of Specific Names in Zoology* and the *Official Index of Rejected and Invalid Specific Names in Zoology* respectively by the Ruling given in the present *Direction* :—

*ferox*, *Accipiter*, Gmelin (S.G.), 1771, *Novi Comment. Acad. Sci. imp. Petrop.* **15** : 442

*gallicus*, *Falco*, Gmelin (J.F.), 1788, in Linnaeus, *Syst. Nat.*  
(ed. 13) 1(1) : 259

13. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

14. The present *Direction* shall be known as *Direction Eighty-Three* (83) of the International Commission on Zoological Nomenclature.

DONE in London, this Tenth day of September, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

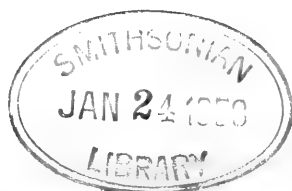
**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.21. Pp. 371—388, 1 pl.**

## **DIRECTION 84**

Designation under the Plenary Powers of a neotype for the nominal species *Cancer depurator* Linnaeus, 1758, (Class Crustacea, Order Decapoda) (*Direction* supplementary to *Opinion 73* and *Direction 36*).



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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 84

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

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Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,*  
*Poland*) (15th June 1950)

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*a.M., Germany*) (5th July 1950)

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*Berlin, Germany*) (5th July 1950)

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Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans,*  
*Louisiana, U.S.A.*) (12th August 1953)

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Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y.,*  
*U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
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Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation,*  
*Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum V Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November  
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,*  
*Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)

## DIRECTION 84

DESIGNATION UNDER THE PLENARY POWERS OF A NEOTYPE FOR THE NOMINAL SPECIES "CANCER DEPURATOR" LINNAEUS, 1758 (CLASS CRUSTACEA, ORDER DECAPODA) ("DIRECTION" SUPPLEMENTARY TO "OPINION" 73 AND "DIRECTION" 36)

**RULING** :—(1) It is hereby directed under the Plenary Powers that the nominal species *Cancer depurator* Linnaeus, 1758 (Class Crustacea, Order Decapoda) be identified by the specimen designated and figured as the neotype therefor by Holthuis (L.B.) (1956, *Bull. zool. Nomencl.* **12** : 104—105, pl. 2).

(2) The under-mentioned specific names are hereby placed on the *Official List of Specific Names in Zoology* with the Name Numbers severally specified below :—

- (a) *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator* and determined by the neotype designated therefor under the Plenary Powers in (1) above (Name No. 1462) ;
- (b) *holsatus* Fabricius (J.C.), 1798, as published in the combination *Portunus holsatus* (Name No. 1463) ;
- (c) *latipes* Pennant, 1777, as published in the combination *Cancer latipes* (specific name of type species of *Portumnus* [Leach], [1814]) (Name No. 1464).

(3) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid*

*Generic Names in Zoology* with the Name Numbers severally specified below :—

- (a) *Platyonychus* Latreille, 1818 (a junior objective synonym of *Portumnus* [Leach], [1814]) (Name No. 1091) ;
- (b) *Platyonychus* Voigt, 1836 (an Erroneous Subsequent Spelling for *Platyonychus* Latreille, 1818) (Name No. 1092).

(4) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Number 487 :—

*variegatus* [Leach], [1814], as published in the combination *Portumnus variegatus* (a junior objective synonym of *latipes* Pennant, 1777, as published in the combination *Cancer latipes*).

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

The problem with which the present *Direction* is concerned came to light in 1955 when the International Commission on Zoological Nomenclature had under consideration the question of the action to be taken to give effect, so far as concerns the names of genera of the Order Decapoda of the Class Crustacea, to the General Directive issued to it by the Thirteenth International Congress of Zoology, Paris, 1948, that the specific names of the type species of genera, the names of which had up to that time been placed on the *Official List of Generic Names in Zoology*, should be placed on the *Official List of Specific Names in Zoology* in every case where the name concerned was the oldest available name for the species concerned and that in other cases there should be placed on the above *Official List* whatever might be considered by specialists to be the oldest available name for the species concerned. One of the names considered in 1955 from the



foregoing point of view was the specific name *latipes* Pennant, 1777, as published in the combination *Cancer latipes*, the specific name of the type species of the genus *Portumnus* [Leach], [1814], a name which had been placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73*. It was at this point that Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) brought forward evidence showing that in fact the above specific name was a junior subjective synonym of the name *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator*, a name which was however at that time widely—though incorrectly—used for an entirely different species belonging to the genus *Macropipus*. On receiving this information, Mr. Hemming at once executed a Minute withdrawing the proposals which had previously been submitted in regard to the specific name *latipes* Pennant and directing that the problems associated with that name should be made the subject of further study. The instruction so given is recorded in *Direction 36* (1956, *Ops. Decls. int. Comm. zool. Nomencl.* 1(D) : 1—46), the *Direction* embodying the decisions taken by the International Commission in regard to the specific names of the species which were the type species of genera of the Order Decapoda which had been placed on the *Official List* prior to the issue to the Commission by the International Congress of Zoology of the General Directive referred to above.

2. Following the withdrawal of the case of the name *latipes* Pennant for further study correspondence took place between the Secretary and Dr. Holthuis as the result of which it was agreed (i) that a paper dealing with the problems involved in connection with the specific name *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator*, should be submitted to the International Commission by Dr. Holthuis as soon as possible and (ii) that, concurrently with the submission of the above document there should be submitted a note by the Secretary supporting Dr. Holthuis's proposals and explaining their relation to the entry relating to the generic name *Portumnus* [Leach], [1814], made on the *Official List* by the Ruling given in *Opinion 73* and the consequent need for an early decision on the issues involved in order to avoid any delay occurring in the preparations in hand for the publication of the *Official List* in book-form.

3. Under the arrangement described above the following application was submitted to the International Commission by Dr. Holthuis on 7th February 1956 :—

**Proposed use of the Plenary Powers to secure that the specific name “depurator” Linnaeus, 1758, as published in the combination “Cancer depurator” (Class Crustacea, Order Decapoda) shall validly apply to the species commonly so known**

By L. B. HOLTHUIS

(*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)

Plate 2

The present application deals with a specific name given by Linnaeus (1758) to a common Portunid crab inhabiting European waters. A most undesirable situation exists at this moment because of the fact that this specific name is widely used for another well known, but quite different species of European crab. The use by the International Commission of its Plenary Powers is requested here as the only means to end this highly objectionable state of affairs in a satisfactory way.

2. At least three species of swimming crabs (family PORTUNIDAE) have been indicated at one time or another with the specific name *depurator* Linnaeus, 1758. These three species are indicated here as A, B, and C, respectively ; their synonymy will be dealt with in this order.

#### Synonymy of Species “A”

3. The names which have been bestowed upon Species “A” are the following :—

*Cancer depurator* Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 627.

*Cancer latipes* Pennant, 1777, *Brit. Zool.* (ed. 4) **4** : 3.

*Cancer lysianassa* Herbst, 1801, *Versuch Naturgesch. Krabben Krebse* **3(2)** : 43.

*Portumnus variegatus* [Leach], [1814], *Edinb. Ency.* **7** : 391.

*Platyonichus variegatus* Latreille, 1818, *Nouv. Dict. Hist. nat.* **27** : 5.

*Platyonichus depurator* Latreille, 1825, *Ency. méth. Hist. nat. Ins.* **10** : 152.

*Platyonichus latipes* Milne Edwards (H.), 1834, *Hist. nat. Crust.* **1** : 436.

*Portumnus latipes* Dana, 1853, *U.S. Explor. Exped.* **13(2)** : 1568.

4. In the tenth edition of his *Systema Naturae*, Linnaeus described the species *Cancer depurator* as follows :—

“ C.[ancer] brachyurus, thorace laevi utrinque subquinqüedentato, manibus apice compressis, pedibus posticis ovatis.

*Planc. conch.* 34. t. 3. f. 7.

*Habitat in M. Mediterraneo.*

*Frons inter oculos dentibus tribus. Digitus fixus chelarum valde compressus”.*

5. Plancius's figure is of a very good quality and represents quite accurately the species which at present is generally known under the name *Portumnus latipes* (Pennant, 1777). Linnaeus's description fits very well for that species, his reference to the smooth carapace and the strongly compressed fingers especially being significant. There cannot be the slightest doubt therefore as to the identity of *Cancer depurator* Linnaeus with *Cancer latipes* Pennant.

6. Leach (1814) made *Cancer latipes* Pennant the type species of a new genus *Portumnus*, giving the species at the same time the new substitute name *Portumnus variegatus*. Latreille (1818, *Nouv. Dict. Hist. nat.* 27 : 4) proposed the new generic name *Platyonichus* to replace *Portumnus* [Leach], [1814], which according to him too much resembled the generic name *Portunus* Weber, 1795. In 1825 Latreille evidently recognised that the specific name *depurator* was the oldest available name for *Portumnus variegatus* (= *Cancer latipes*), which species therefore was named by him *Platyonichus depurator*. As far as I can ascertain, this is the last time that the specific name *depurator* was used in the correct sense. H. Milne Edwards (1834) in his monograph of the Crustacea, and most subsequent authors used for this species the specific name *latipes*; a few British authors (such as Bell, 1844—1846, *Hist. Brit. stalk-eyed Crust.* : 85) around the middle of the last century still followed Leach in using the specific name *variegatus*, but later the name *latipes* Pennant was almost universally adopted. This name is found in all modern carcinological handbooks and treatises (e.g. Pesta, 1918, *Decapodenf. Adria* : 397; Schellenberg, 1928, *Tierw. Deutschl.* 10(2) : 115; Marine biol. Ass., 1931, *Plymouth mar. Fauna* (ed. 2) : 216; Nobre, 1936, *Fauna mar. Portug.* 4 : 28; Bouvier, 1940, *Faune de France* 37 : 231; Zariquiey, 1946, *Publ. Biol. Medit. Inst. Esp. Est. Medit.* 2 : 151).

7. The generic name *Platyonichus* Latreille, 1818, was used for the genus *Portumnus* by several authors during the first two thirds of the XIXth century, such as H. Milne Edwards (1834, *Hist. nat. Crust.* 1 : 436), A. Milne Edwards (1861, *Arch. Mus. Hist. nat. Paris* 10 : 410), and Heller (1863, *Crust. südl. Europ.* : 91). At the suggestion of Bell (1844—1846, *Hist. Brit. stalk-eyed Crust.* : 83), Dana (1851, *Amer.*

*Journ. Sci.* (2) **12** : 130), and Miers (1874, *Zool. Erebus Terror* **20** : 2), the genus *Portumnus* (= *Platyonichus*) was split into two genera. For the genus containing *Cancer latipes* the generic name *Portumnus* was retained, the other genus was (incorrectly) given the name *Platyonichus* (this latter genus at present is known under the name *Ovalipes* Rathbun, 1898). During the last thirty years of the nineteenth and throughout the present century the name *Portumnus* was generally accepted, and it is found in practically all modern handbooks. Of the handbooks mentioned above, only that by Nobre cites the present genus as *Platyonichus* (in the Erroneous Subsequent Spelling *Platyonychus* first published by Voigt in 1836 (Cuvier's *Thierreich* **4** : 104)).

### Synonymy of Species " B "

8. The following are the names which have been used for Species " B " :—

*Cancer depurator* Pennant, 1777, *Brit. Zool.* (ed. 4) **4** : 4 (non Linnaeus, 1758).

*Portunus holsatus* Fabricius, 1798, *Suppl. Ent. syst.* : 366.

*Portunus lividus* [Leach], [1814], *Edinb. Ency.* **7** : 390.

*Liocarcinus holsatus* Stimpson, 1870, *Bull. Mus. comp. Zool.* **2** : 146.

9. When Pennant (1777) gave the new name *Cancer latipes* to the true *Cancer depurator* Linnaeus, he used the name *Cancer depurator* for another species of swimming crab, the oldest available name of which is *Portunus holsatus* Fabricius, 1798. The same species was described as new by Leach, 1814, under the name *Portunus lividus*. H. Milne Edwards (1834, *Hist. nat. Crust.* **1** : 443) correctly used the specific name *holsatus* for this species and has been followed in this by practically all subsequent authors. In all modern carcinological handbooks and revisions the name *Portunus holsatus* is used for this species (Lagerberg, 1908, *Göteb. K. Vetensk. Samh. Handl.* (4) **11**(2) : 90 ; Stephensen, 1910, *Danm. Fauna* **9** : 52 ; Palmer, 1927, *J. mar. biol. Ass. U.K.* (n. ser.) **14** : 889 ; Schellenberg, 1928, *Tierw. Deutschl.* **10**(2) : 121 ; Mar. biol. Ass., 1931, *Plymouth mar. Fauna* (ed. 2) : 215 ; Nobre, 1936, *Fauna mar. Portug.* **4** : 35 ; Bouvier, 1940, *Faune de France* **37** : 243 ; Zariquiey, 1946, *Publ. Biol. Medit. Inst. Esp. Est. Medit.* **2** : 154, 156). As has been decided by the International Commission on Zoological Nomenclature in its *Opinion* 394 (now in the press)<sup>1</sup> the correct generic name for the genus containing this species is *Macropipus* Prestandrea, 1833.

<sup>1</sup> The *Opinion* here referred to has since been published (1956, *Ops. Decls. int. Comm. zool. Nomencl.* **12** : 315—336).

### Synonymy of Species "C"

10. The following are the names which have been applied to Species "C" :—

*Cancer depurator* var. Pennant, 1777, *Brit. Zool.* (ed. 4) 4 : 4.

*Portunus depurator* [Leach], [1814], *Edinb. Ency.* 7 : 390 (non *Cancer depurator* L.).

*Portunus plicatus* Risso, 1816, *Hist. nat. Crust. Nice* : 29.

11. The species dealt with here, was incorrectly identified as *Portunus depurator* by Leach. It was described as new in 1816 by Risso, who named it *Portunus plicatus*. Risso's name was adopted by H. Milne Edwards (1834, *Hist. nat. Crust.* 1 : 442), but practically all subsequent authors followed Leach in the use of the name *depurator* for this species. In all the modern handbooks cited in paragraph 9 above the species is dealt with under the specific name *depurator*. As in the case of Species "B", the correct generic name here is *Macropipus* Prestandrea, 1833.

### Summary and Recommendations

12. Summarising, we find that at present the correct specific name *holsatus* Fabricius, 1798, is used for Species "B", but that the names that are in common use for Species "A" and "C" are nomenclatorially incorrect. Species "A" currently is named *Portumnus latipes* (Pennant, 1777), but should be known as *Portumnus depurator* (Linnaeus, 1758), while species "C" is generally known as *Portunus depurator* (Linnaeus, 1758) but actually should be named *Macropipus plicatus* (Risso, 1816). Since the foregoing incorrect specific names have been consistently used for Species "A" and "C" for more than 100 years, it seems best to validate these names under the Plenary Powers of the International Commission on Zoological Nomenclature. Not only is this necessary in order to avoid the changing of long established usage but in addition it is required if the highly confusing and objectionable transfer of the specific name *depurator* Linnaeus, 1758, from Species "C" to Species "A" is to be avoided. There are two ways by which this end might be attained. The first would be for the Commission to validate the name *Portunus depurator* as from Leach, 1814, by suppressing all previous uses of the name *depurator* under its Plenary Powers. The other solution would be for the Commission to approve under its Plenary Powers the designation of a specimen of *Portunus plicatus* Risso, 1816 (*Macropipus plicatus* (Risso)) to be the neotype of *Cancer depurator* Linnaeus, 1758, despite the fact that, contrary to the virtually unanimous interpretation by later authors, Linnaeus's description does not fit this species. The second of these courses seems preferable, partly because it excludes the possibility of the subsequent re-opening of the present case through the discovery of a name for this species having priority over *depurator* as published by Leach in 1814, and partly because it

avoids any change in the authorship customarily attributed to this name. It may be noted that the procedure suggested in this case is exactly parallel to that recently approved by the Commission when dealing with an application in regard to the name *Coluber sirtalis* Linnaeus, 1758 (Class Reptilia) (Schmidt & Conant, 1951, *Bull. zool. Nomencl.* 2 : 67—68), as for that species also the Commission approved under its Plenary Powers the designation as the neotype of a specimen which did not belong to the species described by Linnaeus under the above name (*Opinion* 385).

13. As a preliminary to the submission of the present application, I have therefore designated a specimen of *Portunus plicatus* Risso to be the neotype of *Cancer depurator* Linnaeus, subject to approval being given by the Commission under its Plenary Powers to the designation so made. Full particulars regarding the neotype designated are given in the Annexe to the present application. A plate showing a life-size photograph of the neotype is also attached.

14. The recommendations submitted in the present application have been the subject of consultations with, and are supported by, the following specialists : (a) Dr. J. Forest (*Muséum National d'Histoire Naturelle, Paris*) ; (b) Dr. I. Gordon (*British Museum (Natural History)*) ; (c) Dr. Th. Monod (*Institut d'Afrique Noire, Dakar*) ; (d) Dr. R. Zariquiey (*Barcelona, Spain*).

15. The concrete proposals now submitted are that the International Commission on Zoological Nomenclature should :—

- (1) direct under its Plenary Powers that the nominal species *Cancer depurator* Linnaeus, 1758, is to be interpreted by reference to the specimen designated and figured as the neotype of that species by the present applicant in the Annexe to the present application ;
- (2) place the under-mentioned names on the *Official List of Specific Names in Zoology* :—
  - (a) *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator*, and as proposed to be determined under the Plenary Powers by the neotype specified in (1) above ;
  - (b) *holsatus* Fabricius, 1798, as published in the combination *Portunus holsatus* ;
  - (c) *latipes* Pennant, 1777, as published in the combination *Cancer latipes* (specific name of type species of *Portunus* [Leach], [1814]) ;

- (3) place the under-mentioned generic names on the *Official Index of Rejected and Invalid Generic Names in Zoology* :—
- (a) *Platyonichus* Latreille, 1818 (a junior objective synonym of *Portumnus* [Leach], [1814]) ;
- (b) *Platyonychus* Voigt, 1836 (an Erroneous Subsequent Spelling of *Platyonichus* Latreille, 1818) ;
- (4) place the under-mentioned specific name on the *Official Index of Rejected and Invalid Specific Names in Zoology* : *variegatus* [Leach], [1814], as published in the combination *Portumnus variegatus* (a junior objective synonym of *latipes* Pennant, 1777, as published in the combination *Cancer latipes*).

16. No action is required in regard to the generic names *Portumnus* [Leach], [1814], or *Macropipus* Prestandrea, 1833, since both these names have already been placed on the *Official List of Generic Names in Zoology*, the first by the Ruling given in *Opinion* 73, the second by that in *Opinion* 394. Similarly, no action is called for at the family-group-name level, for neither of the above generic names is currently regarded as being that of the type genus of a family-group taxon. The family-group name PORTUNIDAE Rafinesque, 1815, the name of the taxon in which these genera are currently placed, was placed on the *Official List of Family-Group Names in Zoology* by the Ruling given in the later of the *Opinions* cited above.

## ANNEXE

### Designation of Neotype for “ *Cancer depurator* ” Linnaeus, 1758 (“ *Portunus depurator* ” (Linnaeus, 1758) )

By L. B. HOLTHUIS

(*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)

**Description :** The specimen here designated as the neotype for *Cancer depurator* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 627) is an adult male with a carapace breadth of 53 mm. The characters exhibited by this specimen agree well with those given by Palmer (1927, *J. mar. biol. Ass U.K.* (n.s.) 14 : 893) for the above nominal species there cited as *Portunus depurator* Linnaeus. The carapace is flattened with the dorsal surface coarsely tuberculate, showing numerous irregularly granular ridges and single tubercles. The frontal teeth are sharply pointed and three in number. The five anterolateral teeth are of about equal size, the posterior is not conspicuously longer than the others and is directed anteriorly. The legs are long and slender, the dactylus of the fifth leg is oval and shows no median ridge, its distal part is of a dark violet colour.

**2. Locality of Neotype :** The neotype here designated was caught on 9th August 1954 by a Spanish trawler in the Mediterranean off Cabo Norfeo near Rosas, N.E. Spain, at a depth of about 300 m. The specimen was bought on the same day at the Rosas fish market (leg. I. Gordon, R. Zariquiey and L. B. Holthuis).

**3. Reference Number allotted to Neotype :** The neotype here designated forms part of the collection of the Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands. It has been allotted the Registered Number "Decapoda 10374".

**4. Label associated with the Neotype :** The specimen is preserved in spirit and labelled as the neotype of *Cancer depurator* L. Apart from this indication, the parchment paper label associated with the specimen bears the modern name of the species : *Macropipus depurator* (L.), and the precise indications as to the locality, date, collectors and registered number, which are given in the previous paragraphs.

**5. Figure of Neotype :** A plate showing a life-size photograph of the neotype here designated is attached to the present note. For this photograph I am indebted to Mr. H. F. Roman.

4. The complementary note which it had been agreed (paragraph 2 above) should be prepared by the Secretary was submitted by that Officer on 18th February 1956. The note in question was as follows :—

**Support for Dr. L. B. Holthuis's request for a decision as to the oldest available name for the type species of the genus "Portumnus" [Leach], [1814] (Class Crustacea, Order Decapoda), a genus, the name of which was placed on the "Official List of Generic Names in Zoology" by the Ruling given in "Opinion" 73**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

In September 1955 I submitted to the International Commission on Zoological Nomenclature proposals<sup>2</sup> for giving effect, so far as concerned the names of genera of Decapod Crustacea placed on the *Official List of Generic Names in Zoology* in the period up to the end of 1936, to the General Directive issued to the Commission by the Thirteenth International Congress of Zoology, Paris, 1948, that

<sup>2</sup> The decision taken by the International Commission on the proposals here referred to has since been embodied in *Direction 36* (1956, *Ops. Decl. int. Comm. zool. Nomencl.* 1 (D) : 1—46).





“*Cancer depurator*” Linnaeus, 1758  
Neotype designated by Holthuis (L.B.) (1956) and validated under the Plenary  
Powers in the present *Opinion*



arrangements should be made for placing on the *Official List of Specific Names in Zoology* the specific name of the type species of every genus, the name of which had been placed on the *Official List* during the foregoing period, where that specific name was an available name and was considered to be the oldest such name for the species concerned. One of the generic names so involved was *Portumnus* [Leach], [1814], which had been placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion 73* published in 1922 (*Smithson. misc. Coll. 73* (No. 1) : 23—31).

2. At the time when the Commission placed the name *Portumnus* [Leach] on the *Official List*, it made the following entry regarding the type species of the genus so named “*mt. P. latipes* = *Cancer latipes* Pennant, 1777 = *P. variegatus* Leach, 1814”. Reference to the original description confirms that *Portumnus* was a monotypical genus. It shows also that the sole included nominal species was *Portumnus variegatus* [Leach], a nominal species then established, though quite unnecessarily, as a substitute for *Cancer latipes* Pennant, 1777. Since the names *variegatus* [Leach], [1814], and *latipes* Pennant, 1777, are objective synonyms of one another and the name *latipes* Pennant, 1777, is an available name, that name and not the substitute name *variegatus* [Leach] should be regarded as the name of the type species of the genus concerned.

3. The investigations undertaken prior to the submission of the proposals referred to in paragraph 1 above had not disclosed the existence of any senior synonym of the name *latipes* Pennant, 1777, and it was concluded therefore that, when rendering *Opinion 73*, the Commission had been correct in concluding that the name *latipes* Pennant was the oldest available name for the species concerned. In those proposals it was therefore recommended that the name *latipes* Pennant should be placed on the *Official List of Specific Names in Zoology* and that its junior objective synonym *variegatus* [Leach] should be placed on the corresponding *Official Index*. At this point Dr. L. B. Holthuis informed me that the name *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator*, properly applied to the same species as did the name *latipes* Pennant, though, as he explained, the name *depurator* Linnaeus had for many years been applied, and was still applied, to an entirely different species. Dr. Holthuis added that very serious confusion would result if the name *depurator* Linnaeus were to be transferred to the species now known as *latipes* Pennant and that, in conjunction with other interested specialists, he had in mind the submission to the Commission of proposals designed to prevent this transfer from being required. The information so received made it evident that the Commission could not take a decision on the question whether the name *latipes* Pennant, 1777, as the specific name of the type species of *Portumnus* [Leach],

should be placed on the *Official List* until a decision had been reached on the question whether the name *depurator* Linnaeus should in future be applied to the species now known as *latipes* Pennant. I accordingly at once withdrew the proposals which I had submitted in regard to the name *latipes* Pennant and its junior objective synonym *variegatus* [Leach], pending a decision being reached by the Commission in regard to the name *depurator* Linnaeus. At the same time I informed Dr. Holthuis that I very much hoped that it would be possible for him to submit to the Commission at an early date his proposals in regard to the name *depurator* Linnaeus.

4. Now that Dr. Holthuis's proposal has been received, I warmly support his request for a decision as to the name to be accepted as the oldest available name for the type species of the genus *Portumnus* [Leach], for, as the name *Portumnus* has been placed on the *Official List of Generic Names in Zoology*, a decision on this matter must be taken before the *Official List* can be published in book-form.

## II. THE SUBSEQUENT HISTORY OF THE CASE

5. **Registration of the present application :** At the time of the execution by the Secretary of the Minute withdrawing the case of the specific name *latipes* Pennant (*Cancer*) from the scope of the proposals relating to the specific names of the type species of genera of Decapods to which reference has been made in the opening paragraph of the present *Direction*, the problem so withdrawn was allotted the Registered Number Z.N.(S.)1031.

6. **Publication of the present application :** The present application together with Mr. Hemming's supplementary note were sent to the printer on 29th February 1956 and were published on 20th July of the same year in Part 4 of Volume 12 of the *Bulletin of Zoological Nomenclature* (Holthuis, 1956, *Bull. zool. Nomencl.* **12** : 99—105, pl. 2 ; Hemming, 1956, *ibid.* **12** : 105—106).

**7. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature of its Plenary Powers in the present case was given on 20th July 1956 (a) in Part 4 of Volume 12 of the *Bulletin of Zoological Nomenclature* (the Part in which the application by Dr. Holthuis and the supplementary note by Mr. Hemming were published) and (b) to the other prescribed serial publications. In addition, such Notice was given to four general zoological serial publications.

**8. Support received from four specialists :** As explained in Dr. Holthuis's application (paragraph 14) the proposals submitted in the present case were supported by the following specialists :—  
(a) Dr. J. Forest (*Muséum National d'Histoire Naturelle, Paris*) ;  
(b) Dr. I. Gordon (*British Museum (Natural History), London*) ;  
(c) Dr. Th. Monod (*Institut d'Afrique Noire, Dakar*) ; (d) Dr. R. Zariquiey (*Barcelona, Spain*).

**9. No objection received :** No objection to the action proposed in the present case had been received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**10. Issue of Voting Paper V.P.(57)11 :** On 15th February 1957 a Voting Paper (V.P.(57)11) was issued in which the Members of the Commission were invited to vote either for, or against, " the proposal relating to specific name *depurator* Linnaeus, 1758, as published in the combination *Cancer depurator*, as set out in Points (1) to (4) in paragraph 15 on pages 103 to 104 of Volume 12 of the *Bulletin of Zoological Nomenclature* " [i.e. in the paragraph numbered as above in the paper reproduced in paragraph 3 of the present *Direction*].

**11. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 15th May 1957.

**12. Particulars of the Voting on Voting Paper V.P.(57)11 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)11 was as follows :—

- (a) *Affirmative Votes had been given by the following twenty-two (22) Commissioners (arranged in the order in which Votes were received) :*

Boschma ; Mayr ; Lemche ; Hering ; Jaczewski ;  
Prantl ; Holthuis ; Mertens ; Bonnet ; Dymond ;  
Vokes ; Bodenheimer ; Bradley (J.C.) ; Key ; Stoll ;  
Esaki ; do Amaral ; Hemming ; Kühnelt ; Cabrera ;  
Tortonese ; Miller ;

- (b) *Negative Votes, two (2) :*

Riley ; Sylvester-Bradley ;

- (c) *Prevented from voting by interruption of postal communications consequent upon political disturbances, one (1) :*

Hankó ;

- (d) *Voting Papers not returned :*

None.

**13. Declaration of Result of Vote :** On 16th May 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P. (57)11, signed a Certificate that the Votes cast were as set out in paragraph 12 above and declaring that the proposal submitted in

the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**14. Preparation of the Ruling given in the present " Direction " :**

On 11th September 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)11.

**15. Original References :** The following are the original references for the names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*depurator*, *Cancer*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 627  
*holsatus*, *Portunus*, Fabricius (J.C.), 1798, *Suppl. Ent. syst.* : 366  
*latipes*, *Cancer*, Pennant, 1777, *Brit. Zool.* (ed. 4) **4** : 3  
*Platyonychus* Latreille, 1818, *Nouv. Dist. Hist. nat.* **27** : 4  
*Platyonychus* Voigt, 1836, Cuvier's *Thierreich* **4** : 104  
*variegatus*, *Portumnus*, [Leach], [1814], Brewster's *Edinb. Ency.*  
**7** : 391

**16. Family-Group-Name Aspect :** As explained in paragraph 16 of Dr. Holthuis's application no action in the present case is required at the family-group-name level, such action as was required having already been taken by the Ruling given in *Opinion* 394.

**17.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

18. The present *Direction* shall be known as *Direction Eighty-Four* (84) of the International Commission on Zoological Nomenclature.

DONE in London, this Eleventh day of September, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

VOLUME 1. SECTION E. Part E.22. Pp. 389—402

## DIRECTION 85

Determination of the dates to be attributed to the several portions of the Crustacea volume written by de Haan (W.) in the work by P. F. von Siebold entitled *Fauna Japonica*

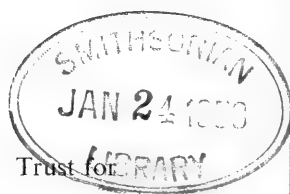
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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 85

### A. The Officers of the Commission

*Honorary Life President* : Dr. Karl JORDAN (*British Museum (Natural History), Zoological Museum, Tring, Herts., England*)

---

*President* : Professor James Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*)  
(12th August 1953)

*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

(Arranged in order of precedence by reference to date of election or of most recent re-election,  
as prescribed by the International Congress of Zoology)

Professor H. BOSCHMA (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(1st January 1947)

Senor Dr. Angel CABRERA (*La Plata, Argentina*) (27th July 1948)

Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th  
July 1948)

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950)

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950)

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950)

Professor Tadeusz JACZEWSKI (*Institute of Zoology, Polish Academy of Sciences, Warsaw,  
Poland*) (15th June 1950)

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt  
a.M., Germany*) (5th July 1950)

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu  
Berlin, Germany*) (5th July 1950)

Senhor Dr. Afranio do AMARAL (*S. Paulo, Brazil*) (12th August 1953) (*Vice-President*)

Professor J. R. DYMOND (*University of Toronto, Toronto, Canada*) (12th August 1953)

Professor J. Chester BRADLEY (*Cornell University, Ithaca, N.Y., U.S.A.*) (12th August  
1953) (*President*)

Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans,  
Louisiana, U.S.A.*) (12th August 1953)

Professor Béla HANKÓ (*Mezőgazdasági Múzeum, Budapest, Hungary*) (12th August 1953)

Dr. Norman R. STOLL (*Rockefeller Institute for Medical Research, New York, N.Y.,  
U.S.A.*) (12th August 1953)

Mr. P. C. SYLVESTER-BRADLEY (*Sheffield University, Sheffield, England*) (12th August 1953)

Dr. L. B. HOLTHUIS (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*)  
(12th August 1953)

Dr. K. H. L. KEY (*Commonwealth Scientific and Industrial Research Organisation,  
Canberra, A.C.T., Australia*) (15th October 1954)

Dr. Alden H. MILLER (*Museum of Vertebrate Zoology, University of California, U.S.A.*)  
(29th October 1954)

Doc. Dr. Ferdinand PRANTL (*Národní Museum v Praze, Prague, Czechoslovakia*) (30th  
October 1954)

Professor Dr. Wilhelm KÜHNELT (*Zoologisches Institut der Universität, Vienna, Austria*)  
(6th November 1954)

Professor F. S. BODENHEIMER (*The Hebrew University, Jerusalem, Israel*) (11th November  
1954)

Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge,  
Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTONESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*)  
(16th December 1954)

## DIRECTION 85

### DETERMINATION OF THE DATES TO BE ATTRIBUTED TO THE SEVERAL PORTIONS OF THE CRUSTACEA VOLUME WRITTEN BY DE HAAN (W.) IN THE WORK BY P. F. VON SIEBOLD ENTITLED "FAUNA JAPONICA "

**RULING** :—(1) It is hereby directed that for the purposes of zoological nomenclature the dates to be attributed to the several portions in which the Crustacea volume written by de Haan (W.) in the work by Siebold (P.F. von) entitled *Fauna Japonica* was published be the dates severally specified in the last column of the table given below :—

**Dates to be attributed to the several portions in which the Crustacea volume by de Haan (W.) in P. F. von Siebold's "Fauna Japonica" was published**

| <i>Decas</i>         | <i>Text</i>   |                 | <i>Plates</i>               | <i>Date of publication</i> |
|----------------------|---------------|-----------------|-----------------------------|----------------------------|
|                      | <i>Sheets</i> | <i>Pages</i>    |                             |                            |
| I                    | c, d<br>1-6   | ix-xvi*<br>1-24 | 1-8, A, B, circ. 2          | [1833]                     |
| II                   | 7-16          | 25-64           | 9-15, 17, C, D              | [1835]                     |
| III                  | 17, 18        | 65-72           | 16, 18-24, E, F             | [1837]                     |
| IV                   | 19-27         | 73-108          | 25-32, G, H                 | [1839]                     |
| V                    | 28-41         | 109-164         | 33-37, 39-42, 47            | [1841]                     |
| VI (first portion)   | —             | —               | 38, 43-46, 48<br>51-55, I-N | [1844]                     |
| VII (first portion)  | —             | —               | —                           | —                          |
| VI (second portion)  | 42-49         | 165-196         | 49, 50, O-Q                 | [1849]                     |
| VII (second portion) | 50-61         | 197-243         | —                           | —                          |
| —                    | a-h           | i-xxxix†        | —                           | [1849]                     |
| —                    | A-C           | vii-xvii‡       | —                           | [1850]                     |

\* De Haan's "Praemissa" and "Expositio"  
 † De Haan's "Praefatio"  
 ‡ Von Siebold's "Commentatio"

(2) The title of the under-mentioned volume is hereby placed on the *Official List of Works Approved as Available for Zoological Nomenclature* with the Title Number 32 :—

de Haan (W.), [1833—1850], Crustacea volume in Siebold (P.F. von), *Fauna Japonica*, subject to the addition of an endorsement as to the dates to be accepted as the dates of publication of the several parts in which the above volume was published as prescribed in (1) above.

(3) The under-mentioned corrections are hereby made in entries made on the *Official List of Specific Names in Zoology* in respect of the names specified below :—

(a) In the entry regarding the specific name *haematocheir* de Haan, as published in the combination *Grapsus (Pachysoma) haematocheir* (specific name of type species of *Holometopus* Milne Edwards (H.), 1853), made on the *Official List* by the Ruling given in *Direction* 36, a reference is hereby inserted to plate 7 of de Haan's volume and the date "[1833]" is hereby substituted for the date "[1835]".

(b) In the entry regarding the specific name *compressa* de Haan, as published in the combination *Ephyra compressa* (specific name of type species of *Paratya* Miers, 1882), made by the Ruling given in *Opinion* 470, the date "[1844]" is hereby substituted for the date "[1849]" there attributed to this name, as published on plate 46 of de Haan's volume.

(4) It is hereby directed that the corrections specified in (3) above be made also in the entries on the *Official List of Generic Names in Zoology* relating to the generic names *Holometopus* Milne Edwards (H.), 1853, and *Paratya* Miers, 1882, respectively at the points in those entries where the names of the type species of the genera concerned are cited.

(5) The under-mentioned correction is hereby made in the entry on the *Official Index of Rejected and Invalid Generic Names in Zoology* made by the Ruling given in *Direction 37* in respect of the generic name specified below :—

In the entry regarding the generic name *Acanthopus* de Haan a reference is hereby inserted to page 5 of de Haan's volume and the date "[1833]" is hereby substituted for the date "[1835]".

(6) It is hereby directed that in the *Official Index of Rejected and Invalid Specific Names in Zoology* the entry in respect of the Name Number 336 made by the Ruling given in *Direction 37* be amended as follows :—

(a) The entry relating to the name *granulatus* de Haan, [1833], as published in the combination *Cancer (Actaea) granulatus*, and there incorrectly stated to have been published in [1835], is hereby deleted.

(b) The under-mentioned entry is hereby substituted for the entry deleted in (a) above :—

*granulatus* Audouin, [1826], as published in the combination *Cancer granulatus* (a junior homonym of *granulatus* Linnaeus, 1758, as published in the combination *Cancer granulatus*).

## I. THE SUBJECT MATTER OF THE PRESENT " DIRECTION "

In June 1957 Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) drew the attention of the Office of the Commission to a paper published in 1953 in which he had established the dates of publication of the several instalments in

which the text and plates of de Haan's Crustacea volume in P. F. von Siebold's *Fauna Japonica* had been published. Dr. Holthuis pointed out also that in one case the date attributed to a name of de Haan's in the recently published *Opinion 470* was incorrect. This communication led to correspondence between the Secretary and Dr. Holthuis which culminated in an arrangement under which on 5th July 1957 Mr. Hemming submitted to the International Commission the following paper in which he recommended that the Commission should give a Ruling as to the dates to be accepted for the purposes of zoological nomenclature as the dates of publication of the several portions in which de Haan's volume was issued. Further, Mr. Hemming recommended that the Commission should at the same time make certain corrections in entries previously made on the *Official List of Specific Names in Zoology* and on the *Official Index of Rejected and Invalid Specific Names in Zoology* that were now seen to be required :—

**Proposed addition to the " Official List of Works Approved as Available for Zoological Nomenclature " of the title of the Crustacea volume by W. de Haan of P. F. von Siebold's " Fauna Japonica ", with an endorsement regarding the dates to be accepted as the dates of publication of the several portions in which that volume was issued and certain matters incidental thereto**

By FRANCIS HEMMING, C.M.G., C.B.E.

(Secretary to the International Commission on Zoological Nomenclature)

The purpose of the present application is to bring to the attention of the International Commission on Zoological Nomenclature a matter on which a decision is needed in connection with the preparations now in hand for the publication of the *Official List of Generic Names in Zoology* in book-form and to seek a decision on the issue in question.

2. The question concerned is that of the dates to be assigned to the new names published in the Crustacea volume by W. de Haan in P. F. von Siebold's *Fauna Japonica*. By reason both of its early date and of the large number of new names included in it, this volume of

de Haan's is of outstanding importance in carcinological literature. The dating of the portions in which this work was published has always been a cause of difficulty and through lack of authoritative information on this subject there has been considerable lack of uniformity in the dates assigned to particular names published in it. This has been particularly serious in those cases where different names are applied to the same taxon on the plates and in the text respectively, there having been hitherto no sure means of determining which component of any pair of competing names had priority over the other. This situation, which is one which should certainly be cleared up as soon as possible, is of direct concern to the International Commission, for already a considerable number of names published in this volume have been placed on the *Official Lists of Generic and Specific Names in Zoology* and it has so far been possible only to assign provisional dates to those names.

3. The difficulties involved in the dating of de Haan's volume have, however, now been resolved in a paper in which Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) has brought forward important new evidence which has enabled him to assign a definite date to each sheet of text and to each plate included in this volume (Holthuis (L.B.), 1953, *J. Soc. Bibl. nat. Hist.* 3 : 36—47, 1 pl.). In this paper Dr. Holthuis reviews the evidence hitherto available, e.g., that provided by published sources (e.g., Erichson (1842); the abstracting part of the volume of Oken's *Isis* for 1842; Peters (1851); Sherborn & Jentink (1895)) and supplements this by the very important information provided by a copy of de Haan's Crustacea volume which was formerly the property of Professor J. O. Westwood of Oxford, to whom it had been presented by de Haan himself. This copy is bound up in the original wrappers (covers) and is enriched by numerous annotations written (in red ink) by de Haan and (in pencil) by Westwood. Full information regarding the data so assembled are given in Dr. Holthuis's paper.

4. It must be noted at this point that de Haan's volume, which contains 243 pages of main text numbered in Arabic numerals and 55 plates similarly numbered together with 17 plates distinguished by letters, was issued in seven "Decada". In addition, there were four subsidiary items of text which were published in three series of separately numbered sections, each of which was numbered independently in small Roman numerals. First, there is the "Praemissa" and the "Expositio", which appeared as Sheets "c" and "d" and bore the page numbers ix—xvi. The second instalment consists of the "Praefatio"; this was issued in sheets lettered "a" to "h" and bore the page numbers i—xxxi. The *Praemissa*, the *Expositio* and the *Praefatio* were all written by de Haan. Finally, there is the

“ Commentatio ” which was published in three sheets lettered “ A ” to “ C ” and comprised pages numbered vii to xvii. This concluding item was written by von Siebold and not by de Haan. The dates of publication ascertained by Dr. Holthuis for each of the foregoing portions of de Haan’s volume are set out in the table annexed to the present note as Appendix 1.

5. Now that the long-standing doubts as to the dates of publication of the several portions of de Haan’s Crustacea volume have been cleared up by Dr. Holthuis, it is recommended that this matter should formally be set at rest in the same way as has been done by the Commission in the parallel case of the dating to be attributed to the several portions of the equally fundamental work (on butterflies) published by Hübner (J.) under the title *Verzeichniss bekannter Schmettlinge* [sic] in *Opinion* 150 (1943, *Ops. Decls. int. Comm. zool. Nomencl.* 2 : 161—168), as supplemented by *Direction* 4 (1954, *ibid.* 2 : 629—652), under the Rulings given in which the dates to be attributed to Hübner’s *Verzeichniss* were prescribed and the title of that work, so endorsed, was placed on the *Official List of Works Approved as Available for Zoological Nomenclature*.

6. It is desirable that the present opportunity should be taken to correct the dates assigned to names for genera and species published by de Haan in those cases where in the entries made on the *Official Lists* or in the *Official Indexes* incorrect dates were assigned to the names concerned. Particulars of these cases are given in Appendix 2 to the present paper.

7. It is accordingly recommended that the International Commission on Zoological Nomenclature should :—

- (1) give a Ruling that for the purposes of zoological nomenclature the dates to be attributed to the several portions of the Crustacea volume by de Haan (W.) in the work by Siebold (P.F. von) entitled *Fauna Japonica* be the dates ascertained therefor by Holthuis (L.B.) as set out in Appendix 1 to the present paper ;
- (2) that in the case of three names published in the above volume specified in Appendix 2 to the present paper, the incorrect dates attributed thereto at the time when the names in question were placed on *Official Lists* or *Indexes* be replaced by the dates found under (1) above to be the correct dates for those



names and that in the case of the fourth of the names enumerated in the above Appendix the further correction there specified be made.

## APPENDIX 1

**Crustacea volume by de Haan (W.) in P. F. von Siebold's  
"Fauna Japonica"**

Dates of publication of the several portions as  
ascertained by Holthuis (L.B.) (1953)

| <i>Decas</i>         | <i>Text</i>   |              | <i>Plates</i>               | <i>Date of publication ascertained</i> |
|----------------------|---------------|--------------|-----------------------------|----------------------------------------|
|                      | <i>Sheets</i> | <i>Pages</i> |                             |                                        |
| I                    | c, d          | ix-xvi*      | 1-8, A, B, circ. 2          | [1833]                                 |
|                      | 1-6           | 1-24         |                             |                                        |
| II                   | 7-16          | 25-64        | 9-15, 17, C, D              | [1835]                                 |
| III                  | 17, 18        | 65-72        | 16, 18-24, E, F             | [1837]                                 |
| IV                   | 19-27         | 73-108       | 25-32, G, H                 | [1839]                                 |
| V                    | 28-41         | 109-164      | 33-37, 39-42, 47            | [1841]                                 |
| VI (first portion)   | —             | —            | 38, 43-46, 48<br>51-55, I-N | [1844]                                 |
| VII (first portion)  |               |              |                             |                                        |
| VI (second portion)  | 42-49         | 165-196      | 49, 50, O-Q                 | [1849]                                 |
| VII (second portion) |               |              |                             |                                        |
| —                    | a-h           | i-xxxix†     | —                           | [1849]                                 |
| —                    | A-C           | vii-xvii‡    | —                           | [1850]                                 |

\* De Haan's "Praemissa" and "Expositio"

† De Haan's "Praefatio"

‡ Von Siebold's "Commentatio"

## APPENDIX 2

**Proposed correction of entries on "Official Lists" and "Official Indexes" relating to certain names published by de Haan in the Crustacea volume of von Siebold's "Fauna Japonica", for which incorrect dates were assigned at the time when the names in question were placed on the "List" or "Index" concerned**

At the time when I formed the conclusion that it was necessary as part of the preparations for the publication of the *Official List of Generic Names in Zoology* in book-form to ask the International Commission on Zoological Nomenclature to give a Ruling as to the dates to be assigned to names published by de Haan in von Siebold's *Fauna Japonica*, it appeared to me to be desirable to take the opportunity so presented to examine all the entries regarding such names so far made on *Official Lists* or *Official Indexes* in order that any incorrect dates which might have been assigned to such names might be immediately corrected. In view of his specialist knowledge of the Crustacea and of the detailed study which he had made of de Haan's work, I invited Dr. L. B. Holthuis to carry out the proposed examination and to report to me any cases where he might find that incorrect dates had been assigned to de Haan names. Dr. Holthuis very kindly consented to undertake this investigation and he has now informed me (*in litt.*, 3rd July 1957) that in four cases only were incorrect dates assigned to such names. In the same report Dr. Holthuis drew attention to a further error associated with one of the names referred to above.

2. The names in respect of which corrections are required are the following :—

- (a) By the Ruling given in *Direction 36* the specific name *haematocheir* de Haan, as published in the combination *Grapsus* (*Pachysoma*) *haematocheir* (specific name of type species of *Holometopus* Milne Edwards (H.), 1853) was treated as having been published in [1835] at the time when it was placed on the *Official List of Specific Names in Zoology* with the Name No. 871. The date so assigned was incorrect, since, in addition to being included in the text, this name appeared on de Haan's plate 7 which was published in [1833].
- (b) The generic name *Acanthopus* de Haan, when placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as Name No. 465 by the Ruling given in *Direction 37* was incorrectly treated as having been published in [1835]. This name appeared on page 5 of de Haan's text and the correct date for it is [1833].
- (c) When the specific name *granulatus* de Haan, as published in the combination *Cancer* (*Actea*) *granulatus*, was placed on the

*Official Index of Rejected and Invalid Specific Names in Zoology* with the Name No. 336, it was incorrectly cited as having been published in [1835] instead of in [1833]. In this case there was, it now transpires, a further error, for it was published by de Haan not as a new name but as a later usage of the name *Cancer granulatus* Audouin, [1826] (in Savigny, *Descr. Egypte*, Hist. nat. 1(4) : 87) a name which is invalid as a junior homonym of the name *Cancer granulatus* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 627). What is required in this case is therefore the removal from the *Official Index* of the specific name *granulatus* de Haan and the insertion in its place of the invalid name *granulatus* Audouin [1826] (*Cancer*) discussed above.

- (d) By the Ruling given in *Opinion* 470 the specific name *compressa* de Haan as published in the combination *Ephyra compressa* (specific name of type species of *Paratya* Miers, 1882) was placed on the *Official List of Specific Names in Zoology* with the Name No. 1177, this name being there treated as having been published in [1849]. This is incorrect for this name appeared on de Haan's plate 46, which was published in [1844].

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's application the question of the dates to be accepted as the dates of publication of the several portions of de Haan's Crustacea volume in von Siebold's *Fauna Japonica* was allotted the Registered Number Z.N.(S.) 1239.

## II. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**3. Issue of Voting Paper V.P.(O.M.)(57)11 :** On 16th July 1957 a Voting Paper V.P.(O.M.)(57)11 was issued in which the

Members of the Commission were invited to vote either for, or against, "the proposal relating to the dates to be assigned to names in de Haan's Crustacea volume of von Siebold's *Fauna Japonica* and to matters incidental thereto, as set out in Points (1) and (2) in paragraph 7 of the paper submitted by the Secretary simultaneously with the present Voting Paper" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**4. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the One-Month Rule, the Prescribed Voting Period closed on 16th August 1957.

**5. Particulars of the Voting on Voting Paper V.P.(O.M.)(57)11 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(O.M.)(57)11 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-four (24) Commissioners (arranged in the order in which Votes were received) :*

Bodenheimer ; Sylvester-Bradley ; Holthuis ; Hering ;  
Mertens ; Vokes ; Mayr ; Cabrera ; Jaczewski ;  
Esaki ; Bradley (J.C.) ; Stoll ; Prantl ; Boschma ;  
Hankó ; Key ; Bonnet ; do Amaral ; Tortonese ;  
Dymond ; Hemming ; Lemche ; Kühnelt ; Miller ;

(b) *Negative Votes :*

None ;

(c) *On Leave of Absence, one (1) :*

Riley ;

(d) *Voting Papers not returned* :

None.

**6. Declaration of Result of Vote :** On 17th August 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(O.M.)(57)11, signed a Certificate that the Votes cast were as set out in paragraph 5 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**7. Preparation of the Ruling given in the present " Direction " :** On 12th September 1957 Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(O.M.)(57)11.

**8. Original References :** The following is the original reference for the name placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* by the Ruling given in the present *Direction* :—

*granulatus*, *Cancer*, Audouin, [1826], in Savigny, *Descr. Egypte*, Hist. nat. 1(4) : 87

**9.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

10. The present *Direction* shall be known as *Direction Eighty-Five (85)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of September, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**

9

# OPINIONS AND DECLARATIONS RENDERED BY THE INTER- NATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

*Edited by*

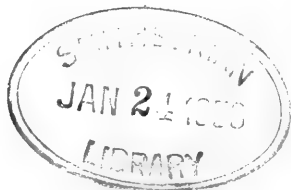
**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.23. Pp. 403—412**

## **DIRECTION 86**

Validation under the Plenary Powers of the specific name  
*convexa* de Haan, [1833], as published in the combination  
*Ocypode (Chasmagnathus) convexa* (Class Crustacea,  
Order Decapoda) (*Direction* supplementary to *Opinion* 85)



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1957

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# INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

## COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN DIRECTION 86

### A. The Officers of the Commission

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*Vice-President* : Senhor Dr. Afranio do AMARAL (*Sao Paulo, Brazil*) (12th August 1953)

*Secretary* : Mr. Francis HEMMING (*London, England*) (27th July 1948)

### B. The Members of the Commission

*Arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology*

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Mr. Francis HEMMING (*London, England*) (27th July 1948) (*Secretary*)

Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948)

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Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950)

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Professor Harold E. VOKES (*University of Tulane, Department of Geology, New Orleans, Louisiana, U.S.A.*)

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Professor Ernst MAYR (*Museum of Comparative Zoology at Harvard College, Cambridge, Massachusetts, U.S.A.*) (4th December 1954)

Professor Enrico TORTENESE (*Museo di Storia Naturale "G. Doria", Genova, Italy*) (16th December 1954)



## DIRECTION 86

VALIDATION UNDER THE PLENARY POWERS OF THE SPECIFIC NAME "CONVEXA" DE HAAN, [1833], AS PUBLISHED IN THE COMBINATION "OCYPODE (CHASMAGNATHUS) CONVEXA" (CLASS CRUSTACEA, ORDER DECAPODA) ("DIRECTION" SUPPLEMENTARY TO "OPINION" 85)

**RULING** :—(1) Under the Plenary Powers the specific name *convexus* Quoy & Gaimard, 1825, as published in the combination *Ocypode convexus*, is hereby suppressed for the purposes both of the Law of Priority and of the Law of Homonymy.

(2) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* with the Name Number 1465 :—

*convexa* de Haan, [1833], as published in the combination *Ocypode (Chasmagnathus) convexa*, and as validated under the Plenary Powers in (1) above (specific name of type species of *Chasmagnathus* de Haan, [1833]).

(3) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* with the Name Number 488 :—

*convexus* Quoy & Gaimard, 1825, as published in the combination *Ocypode convexus*, as suppressed under the Plenary Powers in (1) above.

## I. THE SUBJECT MATTER OF THE PRESENT “ DIRECTION ”

In the course of the preparation of the *Official List of Generic Names in Zoology* for publication in book-form it was found that the specific name of the type species of the genus *Chasmagnathus* de Haan, [1833], a name which had been placed on that *List* by the Ruling given in *Opinion* 85, was invalid as a junior homonym of a name which was not in use, the name in question being regarded by specialists as a *nomen dubium*. On 7th January 1956 the Secretary submitted the following application to the International Commission asking that the *nomen dubium* referred to above should be suppressed under the Plenary Powers for the purpose of validating the specific name currently used for the type species of the genus *Chasmagnathus* de Haan :—

**Proposed use of the Plenary Powers to validate the specific name  
“convexa” de Haan, [1833], as published in the combination  
“Ocypode (Chasmagnathus) convexa”, the name of the  
type species of the genus “Chasmagnathus” de Haan,  
[1833] (Class Crustacea, Order Decapoda), placed on  
the “Official List of Generic Names in Zoology”  
by the Ruling given in “Opinion” 85**

By FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

The purpose of the present application is to ask the International Commission on Zoological Nomenclature to use its Plenary Powers to validate the specific name currently used for the type species of the genus *Chasmagnathus* de Haan, [1833] (Class Crustacea, Order Decapoda), which was placed on the *Official List of Generic Names in Zoology* by the Ruling given in *Opinion* 85 (1925, *Smithson. misc. Coll.* 74(No. 3) : 13—18).

2. The existence of the present problem came to light in the early part of 1955 when proposals were being formulated for submission to the International Commission for the addition to the *Official List of Specific Names in Zoology* of the specific names of the type species of the genera of Decapoda, the names of which had been placed on the *Official List of Generic Names in Zoology* in the pre-Lisbon (1935) period. The facts of this case are set out in the following paragraphs.

3. The name *Chasmagnathus* was introduced by de Haan in the Crustacea Section of von Siebold's *Fauna Japonica* for use as the name of a subgenus of *Ocypode* Fabricius, 1798. This name occurs twice in the Crustacea Section, first on page 5 and later on page 27. These pages were published in Parts 1 and 2 respectively, the first appearing in 1833, the second in 1835. On page 5 the name *Chasmagnathus* was given only in a key without any cited nominal species; on page 27 the subgenus was more fully diagnosed and one species, the new species *Ocypode (Chasmagnathus) convexa*, was cited as belonging to it. This species is therefore the type species of *Chasmagnathus* de Haan by monotypy.

4. Reference to Sherborn's *Index Animalium* (Pars secund. (7) : 1505) disclosed the existence of the name *Ocypode convexus* Quoy & Gaimard, 1825 (*Voy. "Uranie"* (Zool.) : 525). Since for the purpose of determining whether any two specific names are homonyms of one another the only relevant consideration is whether the generic name and the specific name employed is the same in each case, the name *convexa* de Haan, [1833], as published in the combination *Ocypode (Chasmagnathus) convexa*, is a junior primary homonym of *Ocypode convexus* Quoy & Gaimard, 1825, and is therefore invalid.

5. Clearly the first matter to be investigated was the present status of the name *Ocypode convexus* Quoy & Gaimard, a name which had apparently escaped the sharp eye of the late Miss Mary Rathbun when she drew up the application upon which the Crustacea section of the Ruling given in *Opinion* 85 was based. On this subject I first applied to Dr. Isobel Gordon (*British Museum (Natural History), London*) who, after checking the literature, informed me that the foregoing name did not appear to have been used by any authors since Quoy & Gaimard. I thereupon extended my inquiries by seeking the advice of the following specialists :—(i) Dr. Fenner A. Chace, Jr. (*Smithsonian Institution, Washington, D.C., U.S.A.*); (ii) Dr. John S. Garth (*Allan Hancock Foundation, Los Angeles, California, U.S.A.*); (iii) Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*); (iv) Dr. M. W. F. Tweedie (*Director, Raffles Museum and Library, Singapore*).

6. The advice received from the foregoing consultants showed a high degree of agreement. Dr. Fenner Chace replied that the name *convexus* Quoy & Gaimard did not appear to have been in use, specialists regarding it as a *nomen dubium*, but that the name *convexa* de Haan was in use for the species concerned and that there was no other name available for that species. Dr. Garth replied that the name *convexus* Quoy & Gaimard had appeared sporadically in the literature, various authors synonymising it with other species such as *Ocypode kuhlii* de Haan, [1835], *Ocypode cordimana* Desmarest, 1825, and *Ocypode pygoides* Ortmann, 1894. Dr. Holthuis took the same line as Dr. Chace,

stating that, so far as he knew no attempt had ever been made to replace the name *convexa* de Haan. He added that he himself had little doubt that *convexus* Quoy & Gaimard represented the same species as *pygoides* Ortmann but that no modern author had attempted to substitute Quoy & Gaimard's name for that of Ortmann. Dr. Tweedie, after discussing Ortmann's tentative identification of *convexus* Quoy & Gaimard with his own later *pygoides*, stated that the name *convexus* Quoy & Gaimard was not in use and had disappeared in the literature not as a synonym [of *pygoides*] but as a *nomen dubium*.

7. In view (a) of the unanimity of the Decapod specialists consulted that the name *convexus* Quoy & Gaimard is a *nomen dubium* and (b) of the fact that the later name *convexa* de Haan is in use for the species concerned and that that species possesses no other name, I recommend that the Commission should validate the action taken at the time when the name *Chasmagnathus* de Haan was placed on the *Official List of Generic Names in Zoology* by :—

- (1) using its Plenary Powers to suppress the specific name *convexus* Quoy & Gaimard, 1825, as published in the combination *Ocypode convexus*, for the purposes both of the Law of Priority and of the Law of Homonymy ;
- (2) placing the under-mentioned specific name, as validated under the Plenary Powers under (1) above on the *Official List of Specific Names in Zoology* :—*convexa* de Haan, [1833], as published in the combination *Ocypode (Chasmagnathus) convexa* (specific name of type species of *Chasmagnathus* de Haan, [1833]) ;
- (3) placing on the *Official Index of Rejected and Invalid Specific Names in Zoology* the specific name specified in (1) above as there suppressed under the Plenary Powers.

## II. THE SUBSEQUENT HISTORY OF THE CASE

**2. Registration of the present application :** Upon the receipt of Mr. Hemming's application the question of the validation of the specific name *convexa* de Haan, [1833], as published in the combination *Ocypode (Chasmagnathus) convexa*, was allotted the Registered Number Z.N.(S.) 984.

**3. Publication of the present application :** The present application was sent to the printer on 20th February 1956 and was published on 30th November of the same year in Part 12 of Volume 11 of the *Bulletin of Zoological Nomenclature* (Hemming, 1956, *Bull. Zool. Nomencl.* **11** : 362—364).

**4. Issue of Public Notices :** Under the revised procedure prescribed by the Thirteenth International Congress of Zoology, Paris, 1948 (1950, *Bull. zool. Nomencl.* **4** : 51—56), Public Notice of the possible use by the International Commission on Zoological Nomenclature in the present case was given on 30th November 1956 (a) in Part 12 of Volume 11 of the *Bulletin of Zoological Nomenclature* (the Part in which Mr. Hemming's application was published), and (b) to the other prescribed serial publications. In addition such Notice was given to four general zoological serial publications.

**5. Support received from four specialists in the group concerned :** As explained in Mr. Hemming's application (paragraphs 5 and 6) the action recommended in the present case was supported by the following specialists in the group concerned :—(a) Dr. Fenner A. Chace, Jr. (*Smithsonian Institution, Washington, D.C., U.S.A.*) ; (b) Dr. John S. Garth (*Allan Hancock Foundation, Los Angeles, California, U.S.A.*) ; (c) Dr. L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) ; (d) Dr. M. W. F. Tweedie (*Director, Raffles Museum and Library, Singapore*).

**6. No Objection Received :** No objection to the action proposed was received from any source.

### III. THE DECISION TAKEN BY THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

**7. Issue of Voting Paper V.P.(57)45 :** On 3rd June 1957 a Voting Paper (V.P.(57)45) was issued in which the Members of

the Commission were invited to vote either for, or against, " the proposal relating to the specific name *convexa* de Haan, [1833], as published in the combination *Ocypode (Chasmagnathus) convexa*, as set out in Points (1) to (3) in paragraph 7 on page 364 of Volume 11 of the *Bulletin of Zoological Nomenclature*" [i.e. in the paragraph numbered as above in the paper reproduced in the first paragraph of the present *Direction*].

**8. The Prescribed Voting Period :** As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 3rd September 1957.

**9. Particulars of the Voting on Voting Paper V.P.(57)45 :** At the close of the Prescribed Voting Period, the state of the voting on Voting Paper V.P.(57)45 was as follows :—

(a) *Affirmative Votes had been given by the following twenty-three (23) Commissioners (arranged in the order in which Votes were received) :*

Holthuis ; Hering ; Vokes ; Jaczewski ; Lemche ; Bodenheimer ; Boschma ; Key ; Mayr ; Prantl ; Dymond ; Riley ; Bonnet ; Hankó ; Esaki ; Sylvester-Bradley ; Bradley (J.C.) ; Tortonese ; do Amaral ; Stoll ; Hemming ; Cabrera ; Kühnelt ;

(b) *Negative Votes :*

None ;

(c) *Voting Papers not returned, two (2) :*

Miller<sup>1</sup> ; Mertens.<sup>2</sup>

---

<sup>1</sup> After the close of the Prescribed Voting Period a late (negative) vote was received from Commissioner Miller.

<sup>2</sup> After the close of the Prescribed Voting Period a late (affirmative) vote was received from Commissioner Mertens.

**10. Declaration of Result of Vote :** On 4th September 1957, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(57)45, signed a Certificate that the Votes cast were as set out in paragraph 9 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

**11. Preparation of the Ruling given in the present " Direction " :** On 12th September 1957, Mr. Hemming prepared the Ruling given in the present *Direction* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(57)45.

**12. Original References :** The following are the original references for the names placed on *Official Lists* and *Official Indexes* by the Ruling given in the present *Direction* :—

*convexus*, *Ocypode*, Quoy & Gaimard, 1825, *Voy. " Uranie "*  
(Zool.) : 525

*convexa*, *Ocypode* (*Chasmagnathus*), de Haan, [1833], in Siebold,  
*Fauna japon.* (Crust.) : 5, 27

**13.** The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Direction* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

14. The present *Direction* shall be known as *Direction Eighty-Six (86)* of the International Commission on Zoological Nomenclature.

DONE in London, this Twelfth day of September, Nineteen Hundred and Fifty-Seven.

*Secretary to the International Commission  
on Zoological Nomenclature*

**FRANCIS HEMMING**



**OPINIONS AND DECLARATIONS  
RENDERED BY THE INTER-  
NATIONAL COMMISSION ON  
ZOOLOGICAL NOMENCLATURE**

*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**  
Secretary to the Commission

**VOLUME 1. SECTION E. Part E.24.**  
**(Concluding Part)**

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*Edited by*

**FRANCIS HEMMING, C.M.G., C.B.E.**

Secretary to the Commission

**VOLUME 1. SECTION E. Part E.24. Pp. 413—460**

(also published with this Part : T.P—XV)

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### Corrigenda

- page 26. Col. (1), third entry : substitute " 1838 " for " 1833 ".
- page 29. Ruling (17)(b), first line : substitute " Linnaeus, 1758 " for " De Geer, 1776 ".
- page 33. Ruling (18)(xxvii), first line : substitute " Kiritshenko " for " Kiritschenko ".
- page 50. Col. 1, last line but one : substitute " 1838 " for " 1833 ".
- page 57. Footnote 5, line 6 : substitute " (: 22) " for " (: 32) ".
- page 65. Ruling (3)(d), line 3 : substitute " *Periplaneta* " for " *Periplanata* ".
- page 79. Line 5 : substitute " *emendatam* " for " *emendatum* ".
- page 92. Last line but one :  
page 98. Line 9 :  
page 106. Line 9 :  
page 107. First line :  
page 116. Last line but one :  
page 125. Col. (3), last entry : } substitute " von Heyden " for " van Heyden "
- pages 168—169. Ruling (16)(iv) to (viii) : substitute " Gaertner " for " Pallas ".
- page 186. Paragraphs 2, line 2, and 3, line 2 : substitute " Gaertner " for " Pallas ".
- page 196. Ruling (1)(h), last line but one : substitute " 121 " for " 119 ".
- page 230. Ruling (3), line 5 : substitute " Tennent, 1859 " for " Tennant, 1861 ".
- page 231. Ruling (9), line 4 : substitute " Neosporidia " for " Nematoda ".
- page 236. Ruling (15)(xi), first line : insert " Subsequent " between " Erroneous " and " Spellings ".
- page 244. Paragraph 7, first line : substitute " 1859 " for " 1861 ".
- page 250. Paragraph 17 (4), last line : substitute " 1859 " for " 1861 ".
- page 269. Ruling (1)(x), line 2 : substitute " *globi punctata* [sic] " for " *globipunctata* ".
- page 282. Col. (2), last entry but one : substitute " *globi punctata* [sic] " for " *globi-punctata* ".



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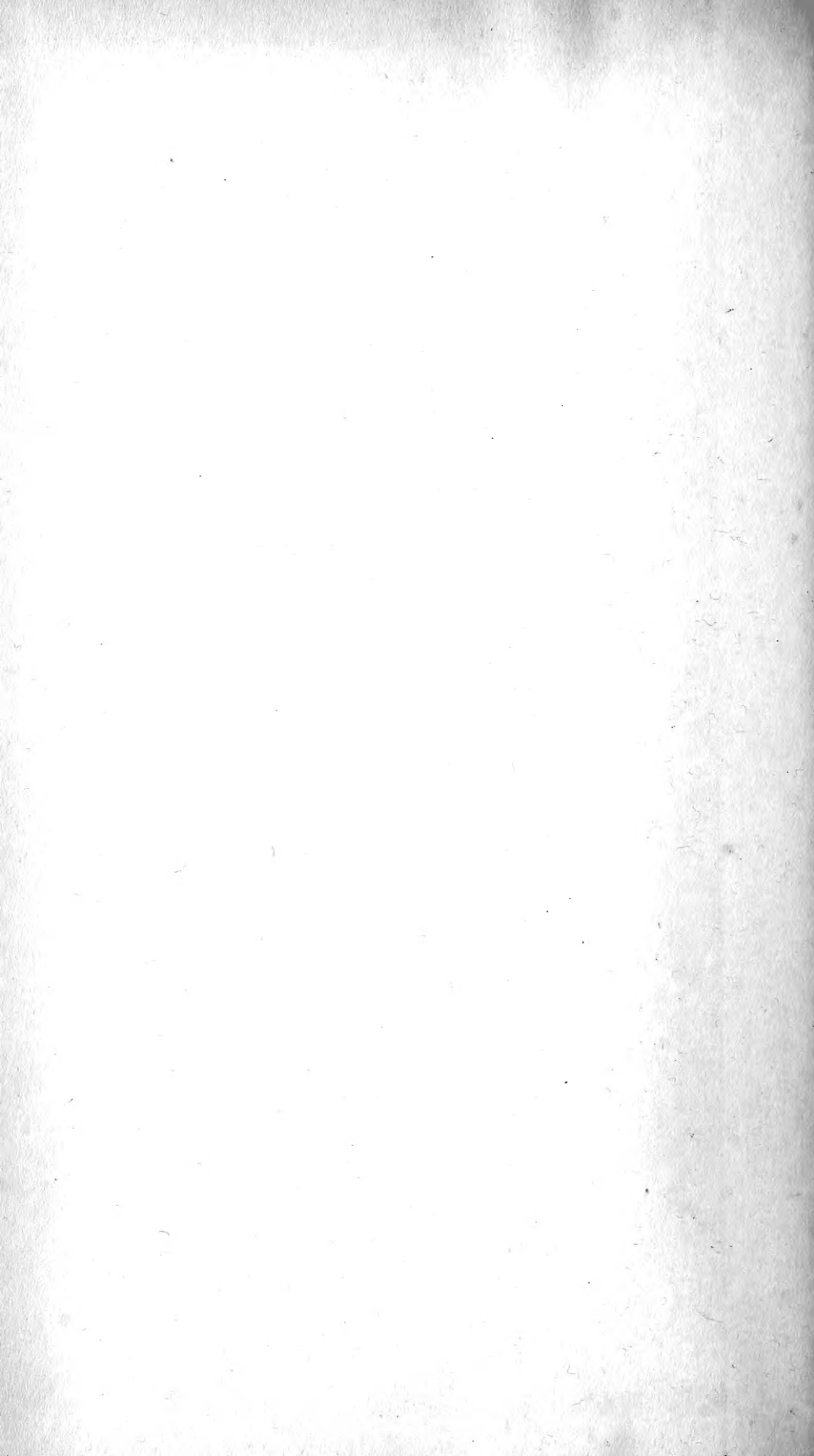




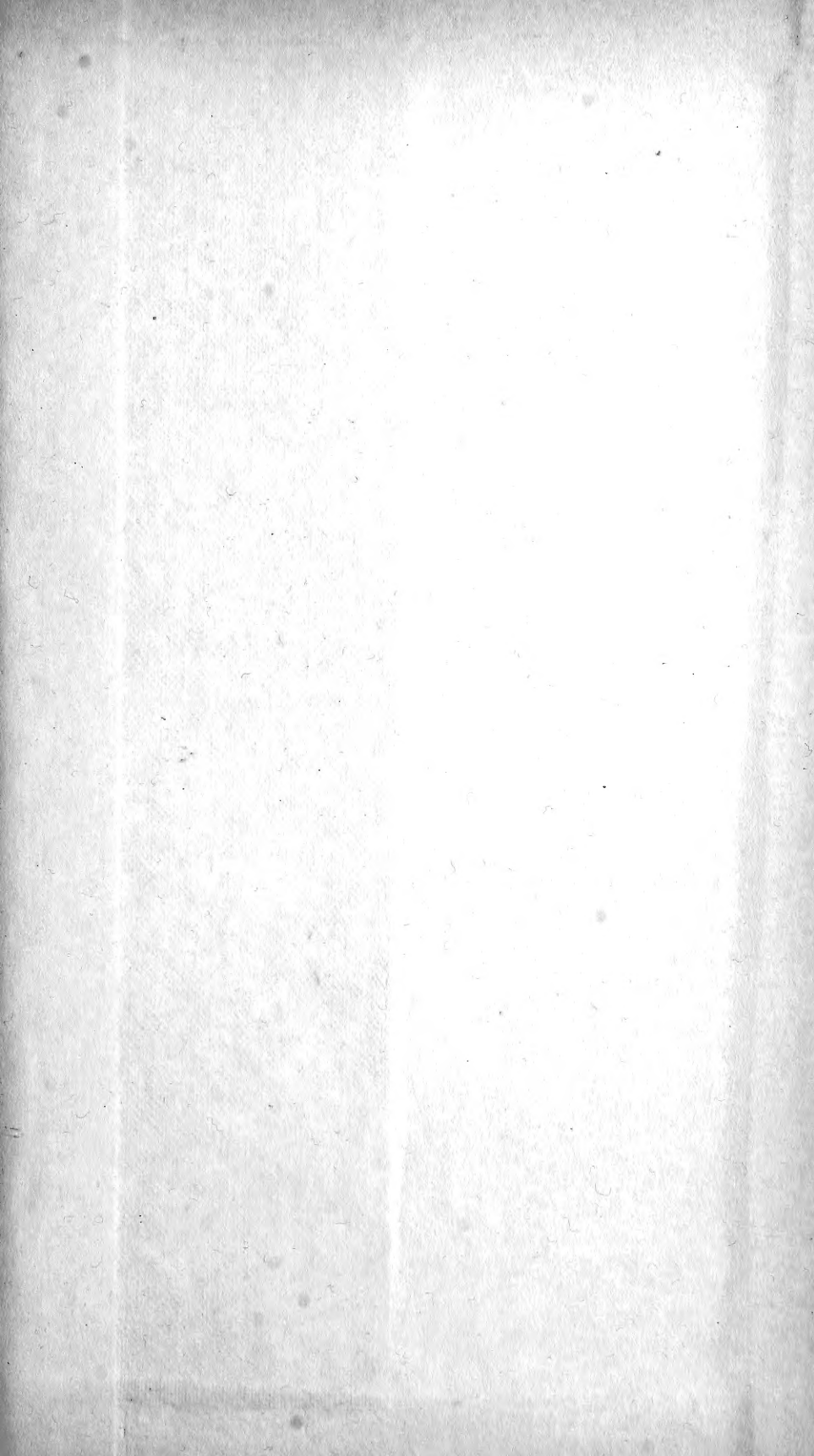












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