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

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

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

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

4. Recipients of separates of papers published in the "Bulletin" are therefore particularly requested to furnish their comments on the action proposed as soon as possible to the Assistant Secretary, the International Commission on Zoological Nomenclature c/o British Museum (Natural History), Cromwell Road, London, S.W.7, England.
REQUEST FOR A RULING TO CORRECT HOMONYMY IN NAMES OF THE FAMILY-GROUPS BASED ON PLETHODUS (PISCES) AND PLETHODON (CAUDATA). Z.N.(S.) 1803

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When homonymy exists between family-group names based on similar but not identical names of type genera, the case is to be referred to the International Commission (1964, International Code of Zoological Nomenclature, Art. 55(a)). A case of homonymy involves the family-group name PLETHODONTIDAE, in current use both in Amphibia (Caudata) and Pisces (Osteoglossiformes).

Plethodon Tschudi, 1838, is the type-genus of the family-group name PLETHODONTIDAE Gray, 1850. This family, the lungless salamanders, consists of 23 genera and about 185 species limited to the New World except for two species in southern Europe (Wake, 1966).

Plethodus Dixon, 1850, is the type-genus of the family-group name PLETHODONTIDAE Loomis, 1900. This family of fossil osteoglossoid fishes consists of about eight genera known from the Upper Cretaceous of Europe, North Africa, and North America (Bardack, 1965). Loomis (1900) clearly proposed a new family PLETHODONTIDAE for Plethodus, Thryopterus, and Pseudothyroides, but for some inexplicable reason he introduced the teleost section of his paper with "Plethodontidae A.S. Woodward." As a result several authors (e.g., Hay, 1929) have credited Woodward with authorship of the family PLETHODONTIDAE.

In his 1902 catalogue, Hay referred to Loomis (1900) as "Plethodidae, part " under OSTEOGLOSSIDAE. But then in his second edition (1929), he used the heading "PLETHODONTIDAE Woodward" and credited the description of the family to Woodward, 1912, even though he again listed Loomis (1900) with the notation PLETHODONTIDAE. The Zoological Record of 1936 used PLETHODONTIDAE as did Weiler (1925) and Stromer (1936). Most other workers have used either PLETHODONTIDAE (Berg, 1940, 1955; Béring and Arambourg, 1957; Bardack, 1965) or THRYOPTERIDAE (described by Jordan, 1923: 119, as a substitute name) to avoid homonymy with the salamander family but several recent authors (e.g., Romer, 1945; Greenwood et al., 1966) have used PLETHODONTIDAE for the fossil fish family. Romer (1946) used THRYOPTERIDAE with PLETHODONTIDAE in parentheses and on page 63 used only the former.

Both generic names, Plethodon and Plethodus, result in the family name PLETHODONTIDAE because odon is a variant of odous and they each have the genitive odontos (Brown, 1954). Because the salamander family is much larger and far better known to both laymen and specialists than the fossil fish family, it seems most reasonable to continue to use PLETHODONTIDAE for the salamanders. Also, two other names have been used for the fossil fishes, the incorrectly formed PLETHODIDAE and the substitute name THRYOPTERIDAE. PLETHODIDAE is the earlier name and has been used more often so the Commission is requested:

(1) to rule under the plenary powers that Plethodontidae is to be accepted as the correct spelling of the family-group name based on Plethodon Dixon, 1850;

(2) to place the following generic names on the Official List of Generic Names in Zoology:
   (a) Plethodon Tschudi, 1838 (92) (gender : masculine, type-species, by subsequent designation by Bibron (in Bonaparte, 1839, Icon. Fauna Ital. 2 (26), sign. 131**, Euproctus platycephalus [4]) in proposing Phantoomtorhina as a substitute name for Plethodon, Salamandra glutinosa Green, 1818 (Caudata);
   (b) Plethodon Dixon, 1850 (394) (gender : masculine, type-species, by subsequent designation by Woodward, 1899, Plethodon expansus Dixon, 1850 (Pisces);

(3) to place the following specific names on the Official List of Specific Names in Zoology:
   (a) glutinosa Green, 1818 (357), as published in the binomen Salamandra glutinosa (type-species of Plethodon Tschudi, 1838) (Caudata);
   (b) expansus Dixon, 1850 (394), as published in the binomen Plethodon expansus (type-species of Plethodon Dixon, 1850) (Pisces);

(4) to place the following family-group names on the Official List of Family-Group Names in Zoology:
   (a) Plethodontidae Gray, 1850 (31) (type-genus Plethodon Tschudi, 1838) (Caudata);
   (b) Plethodontidae Loomis, 1900 (229) (type-genus Plethodon Dixon, 1850) (Pisces);

(5) to place the following family-group name on the Official Index of Rejected and Invalid Family-Group Names in Zoology:
   (a) Plethodontidae Hay, 1929 (type-genus Plethodon Dixon, 1850) (Ruled under the plenary powers to be an incorrect spelling for Plethodontidae Loomis 1900) (Pisces).

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