

Case 2865**BRACHYPTERINAE Erichson, 1845 (Insecta, Coleoptera) and
BRACHYPTERINAE Zwick, 1973 (Insecta, Plecoptera): proposed removal
of homonymy**

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Abstract. The purpose of this application is to remove the homonymy between two family-group names in Coleoptera and Plecoptera. It is proposed that the complete name of the stone-fly genus *Brachyptera* Newport, 1848 be adopted as the stem, giving the corresponding family-group name BRACHYPTERAINAE Zwick, 1973. The beetle name BRACHYPTERINAE Erichson, 1845 would remain unchanged.

1. The BRACHYPTERINAE were established as a subfamily of NITIDULIDAE (Coleoptera) by Erichson (1845, p. 125), based on the type genus *Brachypterus* Kugelann, 1794 (p. 560), the type species of which is *Dermestes urticae* Fabricius, 1792 (p. 235) by subsequent designation by Parsons (1943, p. 141). The stem BRACHYPTER- has been widely used in the nitidulids to form family, subfamily and tribe names.

2. Ganglbauer (1899, p. 518) introduced for the same taxonomic group the tribe name CATERETINI, emending the ending of Erichson's (1843, p. 227) name 'CATERETES', based on the genus *Kateretes* Herbst, 1793 (p. 11; often erroneously cited as *Cateretes* by many authors). Grouvelle (1913, p. 9) introduced the subfamily name CATERETINAE, which was emended by Nunberg (1976, p. 13) to KATERETINAE. However, Audisio (1984, p. 5; 1993, p. 781) and Kirejtshuk (1986, p. 25) have recently pointed out that the KATERETIDAE should be regarded as a family separate from, although closely related to, the NITIDULIDAE and that *Brachypterus* Kugelann, 1794 belongs to the former family. The name BRACHYPTERINAE now applies to a subfamily within the KATERETIDAE. A world-wide revision of this family is now in preparation by P. Audisio and J. Jelinek.

3. One of the authors of this paper (Zwick, 1973, p. 308) proposed the subfamily name BRACHYPTERINAE in the TAENIOPTERYGIDAE (Plecoptera), based on the genus *Brachyptera* Newport, 1848 (p. 388), the type species of which is *Nemoura trifasciata* Pictet, 1832 (p. 379, pl. 15, figs. 4–10) by subsequent designation by Frison (1929, p. 373). Frison (1929) incorrectly stated that the designation of the type species was by Klapálek (1902) and, under Article 69a(iv) of the Code, Frison (1929) himself becomes the author of the designation. The existence of the homonymous family-group name BRACHYPTERINAE Erichson, 1845 in the Coleoptera was overlooked.

4. In accordance with Article 55b of the Code this case of homonymy is referred to the Commission. In our opinion neither *Brachyptera* Newport, 1848 nor BRACHYPTERINAE Zwick, 1973 have any synonyms which could be used to form a name to replace the junior homonym. We propose that the full name of *Brachyptera* be used as the stem so that the subfamily name based on it would become BRACHYPTERAINAE.

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

- (1) to use its plenary powers to rule that for the purpose of Article 29 of the Code the stem of the generic name *Brachyptera* Newport, 1848 is BRACHYPTERA-;
- (2) to place the following names on the Official List of Generic Names in Zoology:
 - (a) *Brachypterus* Kugelann, 1794 (gender: masculine), type species by subsequent designation by Parsons (1943) *Dermestes urticae* Fabricius, 1792;
 - (b) *Brachyptera* Newport, 1848 (gender: feminine), type species by subsequent designation by Frison (1929) *Nemoura trifasciata* Pictet, 1832;
- (3) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *urticae* Fabricius, 1792, as published in the binomen *Dermestes urticae* (specific name of the type species of *Brachypterus* Kugelann, 1794);
 - (b) *trifasciata* Pictet, 1832, as published in the binomen *Nemoura trifasciata* (specific name of the type species of *Brachyptera* Newport, 1848);
- (4) to place the following names on the Official List of Family-Group Names in Zoology:
 - (a) BRACHYPTERINAE Erichson, 1845, type genus *Brachypterus* Kugelann, 1794 (Insecta, Coleoptera);
 - (b) BRACHYPTERAINAE Zwick, 1973, type genus *Brachyptera* Newport, 1848 (spelling emended by the ruling in (1) above) (Insecta, Plecoptera);
- (5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name BRACHYPTERINAE Zwick, 1973 (spelling emended to BRACHYPTERAINAE in (1) above).

References

- Audisio, P. 1984. Necessità di ridefinizione delle sottofamiglie nei Nitidulidae e nuove prospettive per la ricostruzione filogenetica del gruppo (Coleoptera). *Bollettino di Zoologia*, **51**(Supplementum): 5.
- Audisio, P. 1993. Coleoptera Nitidulidae, Kateretidae. *Fauna d'Italia*, **32**: 1-971.
- Erichson, W.F. 1843. Versuch einer systematischen Eintheilung der Nitidularien. *Zeitschrift für Entomologie* (Germar), **4**: 225-361.
- Erichson, W.F. 1845. *Naturgeschichte der Insecten Deutschlands, Abt. 1 (Coleoptera)*, vol. 3. vii, 1-800 pp. Nicolai, Berlin.
- Fabricius, J.C. 1792. *Entomologia Systematica*, vol. 1, part 1. 330 pp. Proft, Hafniae.
- Frison, T.H. 1929. Fall and winter stoneflies, or Plecoptera, of Illinois. *Bulletin of the Illinois State Natural History Survey*, **18**: 345-409.
- Ganglbauer, L. 1899. *Die Käfer von Mitteleuropa*, vol. 3. 1046 pp. Gerold's Sohn, Wien.
- Grouvelle, A. 1913. Byturidae, Nitidulidae. Pp. 1-223 in Junk, W. & Schenkling, S. (Eds.), *Coleopterorum Catalogus*, vol. 56. Junk, Berlin.
- Herbst, J.F.W. 1793. *Natursystem allen bekannten in- und ausländischen Insecten; nach dem System des Ritter Carl von Linné bearbeitet (von C.G. Jablonsky), fortgesetzt von J.F.W. Herbst*. 392 pp. Pauli, Berlin.

- Kirejtshuk, A.G.** 1986. Analysis of the structure of genitalia for reconstructing phylogenesis and argumentation to a system of the fam. Nitidulidae (Coleoptera). *Trudy Vsesoyuznogo Entomologicheskogo Obshchestva*, **68**: 22–28. [In Russian].
- Klapálek, F.** 1902. Zur Kenntnis der Neuropteroiden von Ungarn, Bosnien und Herzegovina. *Természetrájsi Füzetek*, **25**: 161–180.
- Kugelann, J.G.** 1794. Verzeichniss der in einigen Gegenden Preussens bis jetzt entdeckten Käferarten nebst kurzen Nachrichten von denselben. *Neuestes Magazin für Liebhaber der Entomologie*, **1**(5): 513–582.
- Newport, E.** 1848. Postscript to Mr. Newport's paper on *Pteronarcys regalis*. *Proceedings of the Linnean Society, London*, **1**: 387–389.
- Nunberg, M.** 1976. Klucze do oznaczania owadów Polski, XIX (65): Coleoptera — Nitidulidae. *Polskie Towarzystwo Entomologiczne*, Warszawa, **92**: 1–92.
- Parsons, C.T.** 1943. A revision of the Nearctic NITIDULIDAE (Coleoptera). *Bulletin of the Museum of Comparative Zoology, Harvard College*, **92**: 121–278.
- Pictet, F.J.** 1832. Mémoire sur les larves de némoures. *Annales des Sciences Naturelles*, **26**: 369–393.
- Zwick, P.** 1973. Insecta: Plecoptera. Phylogenetisches System und Katalog. *Das Tierreich*, **94**: 1–465.



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