

Case 2713

COLYDIIDAE Erichson, 1842 (Insecta, Coleoptera): proposed precedence over CERYLONIDAE Billberg, 1820 and ORTHOCERINI Blanchard, 1845 (1820); and *Cerylon* Latreille, 1802: proposed conservation of *Lyctus histeroides* Fabricius, 1792 as the type species

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Abstract. The purpose of this application is to conserve the usage of the beetle family-group name COLYDIIDAE Erichson, 1842 by giving it precedence over the senior names CERYLONIDAE Billberg, 1820 and ORTHOCERINI Blanchard, 1845 (1820). Additionally, it is proposed to maintain the nominal genus *Cerylon* Latreille, 1802 in its current usage by designation of *Lyctus histeroides* Fabricius, 1792 as its type species.

1. The genus *Colydium* was established by Fabricius (1792, p. 495) with four included species, among them *Bostrichus elongatus* Fabricius, 1787 (p. 36; the generic name was printed *Bostriculus* in error). Latreille (1810, p. 431) designated *B. elongatus* as the type species of *Colydium*. Erichson (1842, p. 213) formed the family COLYDIIDAE (as *Colydii*); he based this name on *Colydium* which he mentioned earlier in his paper (p. 114) but not on the pages where the family-group name was given. Erichson (1845, p. 251) later discussed the family in more detail and included a number of subordinate family-group names.

2. The genus *Orthocerus* was established by Latreille (1796, p. 16) who gave a description but did not include any species. Later (Latreille, 1807, p. 172) he used this generic name for *Tenebrio hirticornis* De Geer, 1775 (p. 47), which thus became the type species of *Orthocerus* by subsequent monotypy. Blanchard (1845, p. 29) established a new family which he called 'Orthocérites', based on the genus *Orthocerus*. Reitter (1882, p. 116) was the next worker to use *Orthocerus* as the basis for a family-group name, the tribe ORTHOCERINI.

3. Illiger (1798, p. 339) established a new genus *Sarrotrium* with only one nominal species, *Hispa mutica* Linnaeus, 1767 (p. 604); Linnaeus (1767) had introduced that name as an unnecessary replacement for *Dermestes clavicornis* Linnaeus, 1758 (p. 355). Billberg (1820, p. 9) listed *Sarrotrium* in a separate family ('Natio Sarrotriides').

4. When De Geer (1775) described *Tenebrio hirticornis*, the type species of *Orthocerus* (para. 2 above), he gave both *Dermestes clavicornis* and *Hispa mutica* as synonyms. *Sarrotrium* is a junior subjective synonym of *Orthocerus*, and it has not been used this century. Accordingly, the family-group names based on *Sarrotrium* and *Orthocerus* are also subjective synonyms. With one exception ORTHOCERINI has been in universal use since Reitter (1882). Under Article 40b of the Code it should be retained, but given the precedence of the senior synonym, i.e. recorded as ORTHOCERINI Blanchard, 1845 (1820). The exception is Burakowski, Mroczkowski &

Stefan'ska (1986) who resurrected the name SARROTRIINI, having apparently not noticed the effect of Article 40b in either the 1985 or 1964 Codes; Burakowski also used SARROTRIINI in a paper jointly with Slipinski (1986).

5. The genus *Cerylon* was established by Latreille (1802, p. 205), with '*Lyctus terebrans* Fabricius' as the single included species; this species is *Ips terebrans* Olivier, 1790 (no. 18, p. 5). However, Latreille himself (1810, p. 431) later gave *Lyctus histeroides* Fabricius, 1792 (p. 504) as the type species of the genus. This was not an originally included species, but has always been accepted as the type species. Lawrence & Stephan (1975, p. 157) and Dajoz (1976, p. 261) expressly noted *Lyctus histeroides* as the type species of *Cerylon*; other authors have used *Cerylon* in the same sense (e.g. Arnett, 1968; Lucht, 1987; Pope, 1977; the Commission Secretariat holds a list of a further 15 works by 17 authors over the last 35 years illustrating the current usage of *Cerylon*). Billberg (1820, p. 47) included *Cerylon* (based upon *C. histeroides*) in a new family, called 'Natio Cerylonides'.

6. *Ips terebrans* Olivier, the type species of *Cerylon* by monotypy, is currently included in the genus *Pycnomerus* Erichson, 1845 (cf. Burakowski, Mroczkowski & Stefanska, 1986; Lucht, 1987), a genus which is the base for the tribe PYCNOMERINI Erichson, 1845 (p. 290). This tribe has been included in the COLYDIIDAE from the very beginning, and is still considered to belong there (Lawrence, 1980). To change the name *Pycnomerus* to *Cerylon* would merely create confusion.

7. Ever since Erichson (1845) *Orthocerus* has been included in the COLYDIIDAE (subfamily COLYDIINAE), and there have not been any suggestions to remove it (cf. Lawrence, 1980). Erichson (1845, p. 293) also included *Cerylon* in the COLYDIIDAE. Following Crowson (1955) many systematists have considered the CERYLONIDAE to be a separate family (cf. Pal & Lawrence, 1986), but other workers have continued to list CERYLONINAE as a subfamily within the COLYDIIDAE (cf. Lucht, 1987).

8. The name COLYDIIDAE is commonly used, although opinions vary as to its limitation (e.g. Arnett, 1968, p. 839; Dajoz, 1977, p. 37; Pope, 1977, p. 65; the Commission Secretariat holds a list of 10 further references by 11 authors over the last 35 years using COLYDIIDAE). Under the Principle of Priority it should be replaced by ORTHOCERIDAE; if CERYLONIDAE is not considered to denote a separate family it would also replace COLYDIIDAE. To replace COLYDIIDAE by ORTHOCERIDAE or CERYLONIDAE would cause considerable confusion and nomenclatural instability.

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

(1) to use its plenary powers:

(a) to rule that the family-group name COLYDIIDAE Erichson, 1842 is to be given precedence over the names ORTHOCERIDAE Blanchard, 1845 (1820) and CERYLONIDAE Billberg, 1820 whenever their type genera are placed in the same family-group taxon;

(b) to set aside all previous fixations of type species for the nominal genus *Cerylon* Latreille, 1802 and to designate *Lyctus histeroides* Fabricius, 1792 as the type species;

(2) to place the following names on the Official List of Generic Names in Zoology:

(a) *Colydium* Fabricius, 1792 (gender: neuter), type species by subsequent designation by Latreille (1810) *Bostrichus elongatus* Fabricius, 1787;

- (b) *Cerylon* Latreille, 1802 (gender: neuter), type species by designation in (1)(b) above *Lyctus histeroides* Fabricius, 1792;
- (c) *Orthocerus* Latreille, 1796 (gender: masculine), type species by subsequent monotypy *Tenebrio hirticornis* De Geer, 1775 (a junior subjective synonym of *Dermestes clavicornis* Linnaeus, 1758);
- (3) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *elongatus*, Fabricius, 1787, as published in the binomen '*Bostrichus*' (= *Bostrichus*) *elongatus*, specific name of the type species of *Colydium* Fabricius, 1792;
 - (b) *histeroides*, Fabricius, 1792, as published in the binomen *Lyctus histeroides*, specific name of the type species of *Cerylon* Latreille, 1802;
 - (c) *clavicornis*, Linnaeus, 1758, as published in the binomen *Dermestes clavicornis* (senior subjective synonym of *Tenebrio hirticornis* De Geer, 1775, the type species of *Orthocerus* Latreille, 1796);
- (4) to place the following names on the Official List of Family-Group Names in Zoology:
 - (a) COLYDIIDAE Erichson, 1842 (type genus *Colydium* Fabricius, 1792) with the endorsement that it is to be given precedence over CERYLONIDAE Billberg, 1820 and ORTHOCERINI Blanchard, 1845 (1820) whenever their type genera are placed in the same family-group taxon;
 - (b) CERYLONIDAE Billberg, 1820 (type genus *Cerylon* Latreille, 1802) with the endorsement that it is not to be given priority over COLYDIIDAE Erichson, 1842 whenever their type genera are placed in the same family-group taxon;
 - (c) ORTHOCERINI Blanchard, 1845 (1820) (type genus *Orthocerus* Latreille, 1796) with the endorsement that it is not to be given priority over COLYDIIDAE Erichson, 1842 whenever their type genera are placed in the same family-group taxon;
- (5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name SARROTRIIDAE Billberg, 1820 (type genus *Sarrotrium* Illiger, 1798) (replaced before 1961 as a name based on a junior generic synonym).

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