

OPINION 1828

Apis terrestris Linnaeus, 1758, *A. muscorum* Linnaeus, 1758 and *A. lucorum* Linnaeus, 1761 (currently *Bombus terrestris*, *B. muscorum* and *B. lucorum*) and *Bombus humilis* Illiger, 1806 (Insecta, Hymenoptera): specific names conserved, and neotypes designated for *B. terrestris* and *B. muscorum*

Keywords. Nomenclature; taxonomy; Hymenoptera; bumble bees; *Bombus humilis*; *Bombus lucorum*; *Bombus muscorum*; *Bombus terrestris*.

Ruling

- (1) Under the plenary powers all previous fixations of type specimens for the following nominal species are hereby set aside and the specimens cited are designated as the neotypes:
 - (a) *Apis terrestris* Linnaeus, 1758: the queen specimen with a red label reading 'NEOTYPE *Apis terrestris* L., 1758', a white label reading 'Upl. Rådmanö Västernäs 7.8.1970 leg. S. Erlandsson', a white label reading '*Bombus terrestris* (L.) A. Loken det.', and a blue label reading 'Naturhistoriska Riksmuseet Stockholm Loan 262/94';
 - (b) *Apis muscorum* Linnaeus, 1758: the queen specimen with a red label reading 'NEOTYPE *Apis muscorum* L., 1758', a white label reading 'Sk. Arkelstorp 5.7.1947 B.O. Landin', a white label reading '*Bombus muscorum* L., A. Loken det.', and a blue label reading 'Naturhistoriska Riksmuseet Stockholm Loan 268/94'.
- (2) To the entry for *Apis terrestris* Linnaeus, 1758 on the Official List of Specific Names in Zoology is hereby added the endorsement that it is defined by the neotype designated in (1)(a) above.
- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
 - (a) *muscorum* Linnaeus, 1758, as published in the binomen *Apis muscorum* and as defined by the neotype designated in (1)(b) above;
 - (b) *lucorum* Linnaeus, 1761, as published in the binomen *Apis lucorum* and as defined by the neotype designated by Day (1979);
 - (c) *humilis* Illiger, 1806, as published in the binomen *Bombus humilis*.

History of Case 2638

An application for the conservation of the usage of the specific names of *A. terrestris* Linnaeus, 1758, *A. muscorum* Linnaeus, 1758, *A. lucorum* Linnaeus, 1761 and *Bombus humilis* Illiger, 1806 by the designation of neotypes for *A. terrestris* and *A. muscorum* was received from Dr Astrid Loken (*Hovseterveien, Oslo, Norway*). Dr Antti Pekkarinen (*University of Helsinki, Finland*) and Prof Pierre Rasmont (*Université de Mons-Hainaut, Mons, Belgium*) on 21 January 1988. After correspondence the case was published in BZN 51: 232–236 (September 1994). Notice of the case was sent to appropriate journals.

A comment in support from Dr Hans Silfverberg (*Zoological Museum, Helsinki University, Finland*) was published in BZN 52: 76 (March 1995).

The name *Bombus* Latreille, 1802, and that of its type species *Apis terrestris* Linnaeus, 1758, were placed on Official Lists in Opinion 220 (March 1954). However, the identity of the type material of *A. terrestris* was not then considered.

Decision of the Commission

On 1 September 1995 the members of the Commission were invited to vote on the proposals published in BZN 51: 235. At the close of the voting period on 1 December 1995 the votes were as follows:

Affirmative votes — 25: Bayer, Bock, Bouchet, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Heppell, Holthuis, Kabata, Kraus, Lehtinen, Macpherson, Mahnert, Martins de Souza, Minelli, Nielsen, Nye, Savage, Schuster, Starobogatov, Štys, Trjapitzin

Negative votes — none.

No votes were received from Ride and Uéno.

Lehtinen commented: 'Lectotype designations for Linnaean species should not be allowed to upset the long usage of names'.

Original references

The following are the original references to the names placed on an Official List by the ruling given in the present Opinion:

humilis, *Bombus*, Illiger, 1806, *Magazin für Insektenkunde*, 5: 171.

lucorum, *Apis*, Linnaeus, 1761, *Fauna Suecica*, Ed. 2, p. 425.

muscorum, *Apis*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 579.

terrestris, *Apis*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 578.

The following is the reference for the fixation of *Apis terrestris* Linnaeus, 1758 as the type species of the nominal genus *Bombus* Latreille, 1802:

Latreille, P.A. 1802. *Histoire naturelle des Fourmis* ..., p. 437.

The following is the reference for the designation of the lectotype of *Apis lucorum* Linnaeus, 1761:

Day, M.C. 1979. *Biological Journal of the Linnean Society* (London), 12: 66.