

SUBSTITUTE NAMES FOR SOME EXTINCT GENERA OF FOSSIL INSECTS*

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During the preparation of the hexapod volume of the Treatise on Invertebrate Paleontology, now in press†, several junior homonyms were noted among the extinct genera. This seems to be an appropriate occasion to propose substitute names for these homonyms. In those instances in which the authors are still living, I have already called their attention to the homonymy, with the suggestion that they propose names of their own choice. In some other cases replacement names are already available, through synonymy, and these are being proposed in the hexapod volume of the Treatise. Most of the homonyms, however, require new names, and since the current editorial policy of the Treatise excludes the proposal of new names of taxa in that work, the present article is intended to meet that need. It consists of proposals of new generic names to replace certain names that are not being taken care of elsewhere. The gender of each new name is the same as that of the original one. The names proposed here are in the orders Palaeodictyoptera, Odonata, Diptera, Hymenoptera, Coleoptera, and Lepidoptera.

ORDER PALAEODICTYOPTERA

Family uncertain

Boltonocosta, *nomen novum pro* ORTHOCOSTA Bolton, 1912, p. 310, *non* Fritsch, 1879, p. 28. Type-species: *Orthocosta splendens* Bolton, 1912, original designation, becomes *Boltonocosta splendens* (Bolton), new combination. The genus is known only from the Upper Carboniferous of England.

Eurydictyella, *nomen novum pro* EURYDICTYA Guthörl, 1934, p. 49, *non* Ulrich, 1889, p. 301. Type-species: *Eurydictya*

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richteri Guthörl, 1934, original designation, becomes *Eurydictyella richteri* (Guthörl), new combination. The genus is known only from the Upper Carboniferous of Germany.

ORDER ODONATA

Family Aeshnidae

Neoligaeschna, *nomen novum pro* OLIGOAESCHNA Piton & Theobald, 1939, p. 6, *non* Selys, 1889, p. 160. Type-species: *Oligoaeschna jungi* Piton & Theobald, 1939, original designation, becomes *Neoligaeschna jungi* (Piton & Theobald), new combination. The genus is known only from the Oligocene of France.

ORDER DIPTERA

Family Archtipulidae

Leptotipuloides, *nomen nudum pro* LEPTOTIPULA Bode, 1953, p. 312, *non* Alexander, 1917, p. 160. Type species: *Leptotipula fastigata* Bode 1953, original designation, becomes *Leptotipuloides fastigata* (Bode), new combination. The genus is known only from the Jurassic of Germany.

Family Bibionidae

Lithosomyia, *nomen novum pro* MESOMYIA Pongracz, 1928, p. 174, *non* Macquart, 1849, p. 341. Type-species: *Bibio brevis* Heer, 1849, p. 225, SD Carpenter, herein, becomes *Lithosomyia brevis* (Heer), new combination. The genus is known by several species from the Miocene of Croatia.

Family Rachiceridae

Trecela, *nomen novum pro* ELECTRA Loew, 1850, p. 38, *non* Stevens, 1831, p. 278. Type-species: *Electra formosa* Loew, 1850, original designation, becomes *Trecela formosa* (Loew), new combination. The genus is known only from the Lower Oligocene of the Baltic amber, The name *Trecela* is an anagram of *Electra* and is considered feminine.

ORDER HYMENOPTERA

Family Eumenidae

Eunortonia, *nomen novum pro* PSEUDONORTONIA Timon-David, 1944, p. 41, *non* Soika, 1936, p. 168. Type-species: *Pseudonortonia sepulta* Timon-David, 1944, original designation, becomes *Eunortonia sepulta* (Timon-David), new combination. The genus is known only from the Oligocene of France.

Family Chrysididae

Protochrysidis, *nomen novum pro* PROTOCHRYSIDIS Bischoff, 1917, p. 139, *non* Pascher, 1911, p. 191. Type-species: *Protochrysis succinalis* Bischoff, 1917, original designation, becomes *Protochrysidis succinalis* (Bischoff), new combination. The genus is known only from the Lower Oligocene of the Baltic amber.

ORDER COLEOPTERA

Family Curculionidae

Oligocryptus, *nomen novum pro* EUCRYPTUS Scudder, 1893, p. 63, *non* Haldeman, 1842, p. 191. Type-species: *Eucryptus sectus* Scudder, 1893, original designation, becomes *Oligocryptus sectus* (Scudder), new combination. The genus is known only from the *Oligocene* of Colorado.

Sitonitellus, *nomen novum pro* SITONITES Haupt, 1956, p. 80, *non* Heer, 1865, p. 90. Type-species: *Sitonites egregius* Haupt, 1956, original designation, becomes *Sitonitellus egregius* (Haupt), new combination. The genus is known only from the Eocene of Germany.

Family unknown

Aptilotitus, *nomen novum pro* APTILOTUS Bode, 1953, p. 237, *non* Mik, 1898, p. 206. Type-species: *Aptilotus capitecarens* Bode, 1953, original designation, becomes *Aptilotitus capitecarens* (Bode), new combination. The genus is known only from the Jurassic of Germany.

Auchenophorites, *nomen novum pro* AUCHENOPHORUS Bode, 1953, p. 229, *non* Turner, 1907, p. 270. Type-species: *Auchenophorus sculpturatus* Bode, 1953, original designation, becomes *Auchenophorites sculpturatus* (Bode), new combination. The genus is known only from the Jurassic of Germany.

Barocephalus, *nomen novum pro* BARYCEPHALUS Bode, 1953, p. 228, *non* Guenther, 1860, p. 149. Type-species: *Barycephalus nudatus* Bode, 1953, original designation, becomes *Barocephalus nudatus* (Bode). The genus is known only from the Jurassic of Germany.

Clinomerus, *nomen novum pro* CATOMERUS Handlirsch, 1939, p. 67, *non* Pilsbry, 1916, p. 395. Type-species: *Catomerus laticollis* Handlirsch, 1939, original designation, becomes

- Clinomerus laticollis* (Handlirsch), new combination. The genus is known only from the Jurassic of Germany.
- Critoderma**, *nomen novum pro* CYCLODERMA Heer, 1865, p. 89, *non* Peters, 1854, p. 216. Type-species: *Cycloderma deplanatum* Heer, 1865, original designation, becomes *Critoderma deplanatum* (Heer), new combination. The genus is known only from the Jurassic of Switzerland.
- Critotrachelus**, *nomen novum pro* CYCLOTRACHELUS Bode, 1953, p. 222, *non* De Chaudoir, 1838, p. 27. Type-species: *Cyclotrachelus exsecatus* Bode, 1953, original designation, becomes *Critotrachelus exsecatus* (Bode), new combination. The genus is known only from the Jurassic of Germany.
- Dicyphelus**, *nomen novum pro* DICYPHUS Bode, 1953, p. 234, *non* Fieber, 1858, p. 327. Type-species: *Dicyphus concameratus* Bode, 1953, original designation, becomes *Dicyphelus concameratus* (Bode), new combination. The genus is known only from the Jurassic of Germany.
- Eurynotellus**, *nomen novum pro* EURYNOTUS Bode, 1953, p. 207, *non* Kirby, 1819, p. 418. Type-species: *Eurynotus brevicollis* Bode, 1953, original designation, becomes *Eurynotellus brevicollis* (Bode), new combination. The genus is known only from the Jurassic of Germany.
- Heeriaopsis**, *nomen novum pro* HEERIELLA Handlirsch, 1906, p. 401, *non* Meunier, 1904, p. 86. Type-species: *Elytridium laevigatum* Heer, 1878, p. 196, original designation, becomes *Heeriaopsis laevigatum* (Handlirsch), new combination. The genus is known only from the Triassic of Sweden.
- Mesolobites**, *nomen novum pro* LOBITES Dunstan, 1923, p. 53, *non* Mojsisovics, 1873, p. 155. Type-species: *Lobites tuberculatus* Dunstan, 1923, original designation, becomes *Mesolobites tuberculatus* (Dunstan), new combination. The genus is known only from the Triassic of Australia.
- Mesoncus**, *nomen novum pro* LOXONCUS Bode, 1953, p. 218, *non* Schmidt-Goebel, 1846, p. 4. Type-species: *Loxoncus procerus* Bode, 1953, original designation, becomes *Mesoncus procerus* (Bode), new combination. The genus is known only from the Jurassic of Germany.
- Oligovarus**, *nomen novum pro* VARUS Schlechtendahl, 1894, p. 209, *non* Stål, 1865, p. 141. Type-species: *Varus ignotus* Schlechtendahl, 1894, original designation, becomes *Oligo-*

varus ignotus (Schlechtendahl), new combination. The genus is known only from the Oligocene of Germany.

Ooidellus, *nomen novum pro* OOIDES Bode, 1953, p. 234, *non* Agassiz, 1846 (Index, p. 260). Type-species: *Ooides denudatus* Bode, 1953, original designation, becomes *Ooidellus denudatus* (Bode), new combination. The genus is known only from the Jurassic of Germany.

Parnosoma, *nomen novum pro* PEDINOSOMA Bode, 1953, p. 235, *non* Reibisch, 1893, p. 252. Type-species: *Pedinosoma detectum* Bode, 1953, original designation, becomes *Parnosoma detectum* (Bode), new combination. The genus is known only from the Jurassic of Germany.

Peridosoma, *nomen novum pro* PEROSOMA Bode, 1953, p. 217, *non* Bronn, 1862, p. 135. Type-species: *Perosoma praecisum* Bode, 1953, original designation, becomes *Peridosoma praecisum* (Bode), new combination. The genus is known only from the Jurassic of Germany.

ORDER LEPIDOPTERA

Family Nymphalidae

Jupitellia, *nomen novum pro* JUPITERIA Scudder, 1889, p. 488, *non* Bellardi, 1875, p. 20. Type-species: *Jupiteria charon* Scudder, 1889, original designation, becomes *Jupitellia charon* (Scudder), new combination. The genus is known only from the Oligocene of Colorado, U.S.A.

LITERATURE CITED

AGASSIZ, LOUIS

1846. *Nomenclatoris Zoologici, Index Universalis*, 393 pp.

ALEXANDER, C. P.

1917. The crane-flies of South Africa in the South African Museum: *Annals of the South African Museum*, **17**: 139-184.

BELLARDI, L.

1875. *Monografia delle nuclidi trovate finora nei terreni terziari del Piemonte e della Liguria: Il R. Liceo Gioberti nell' Anno scolastico*. 32 pp.

BISCHOFF, HANS

1917. *Bernsteinhymenopteren: Beiträge zur Naturkunde Preussens Physikalisch-Oekonomischen Gesellschaft Königsberg*, **56**: 139-144.

BODE, ARNOLD

1953. Die Insektenfauna des Ostniedersächsischen Oberen Lias: *Paleontographica (A)*, **103**: 1-375.

BOLTON, HERBERT

1912. Insect-remains from the Midland and South-Eastern Coal Measures: Quarterly Journal of the Geological Society of London, **68**: 310-323.

BRONN, H. G.

1862. Klassen und Ordnungen Weichtiere (Malacozoa), vol. 3 (1), 135 pp.

CHAUDOIR, M.

1938. Tableau d'une nouvelle subdivision de genre *Feronia* Dejean, suivi d'une caracteristique de trois nouveaux genres du Carabiques: Bulletin de la Societé Imperiale Naturalistes Moscou, **11**(1): 1-32.

DUNSTAN, B.

1923. Mesozoic insects of Queensland. Part 1. Introduction and Coleoptera: Geological Survey of Queensland Publication, **273**: 1-74.

FIEBER, F. X.

1858. Kriterien zur generischen Theilung der Phytocoriden: Wiener Entomologische Monatschrif, **2**: 289-327.

FRITSCH, ANTON

1879. Fauna der Haskole und der Kalksteine der Perm-Formation Bohmens, vol. 1, 83 pp.

GUENTHER, ALBERT

1860. Contributions to a knowledge of the reptiles of the Himalaya Mountains: Proceedings of the Zoological Society of London, **28**: 148-175.

GUTHÖRL, PAUL

1934. Die Arthropoden aus dem Carbon und Perm des Saar-Nahe-Pfalz-Gebietes: Abhandlungen der Königl. Preussischen Geologischen Landesanstalt, **164**: 1-219.

HALDEMAN, S. S.

1842. Remarks on changes of nomenclature in Natural History: Proceedings of the Academy of Natural Sciences, Philadelphia, **1**: 1.

HANDLIRSCH, ANTON

1906. Die fossilen Insekten und die Phylogenie der rezenten Formen, 640 pp. (Leipzig).
1939. Neue Untersuchungen über die fossilen Insekten, mit Ergänzungen und Nachtragen palaeogeographische und allgemein biologische Probleme. II: Annalen Naturhistorisches Museum in Wien, **48**: 1-240.

HAUPT, HERMANN

1956. Beitræg zur Kenntnis der eözanen Arthropodenfauna des Geiseltales: Nova Acta Leopoldina, **18**(128): 1-90.

HERR, OSWALD

1849. Die Insektenfauna der Tertiargebilde von Oeningen und Radoboj. 2. Heuschrecken, florfliegen, aderflügen schmitterlinge und fliegen: Neue Denkschriften der Allgemeinen Schweizerischen Gesellschaft für die gesamten naturwissenschaften. 264 pp. (Leipzig).
1865. Die Umwelt der Schweiz. 628 pp. (Zurich).

LOEW, H. F.

1850. Ueber den Bernstein und die Bernsteinauna: Programm der Königl. Realschule zu Meseritz. 48 pp.

MACQUART, JEAN

1850. Facultés interieures des animaux invertebres: Memoires de la Societé des Sciences, Lille, 1849, suppl., 129-400.

MEUNIER, FERNAND

1904. Monographie des Cecidomyiidae, des Sciaridae, des Mycetophilidae, et des Chironomidae de l'ambre de la Baltique: Annales de la Societé Scientifique de Bruxelles, **28**: 12-264.

MIK, J.

1898. Altes und Neues über Diptera: Wiener entomologische Zeitung, **17**: 196-219.

MILLER, S. A.

1889. In Ulrich, et al., North American Geology and Paleontology. 664 pp. (Cincinnati).

MOJSISOVICS, E. V.

1873. Das Gebirge um Hallstatt; Abt. 1, Die Cephalopoden der Hallstatter Kalke: Abhandlungen der K.K. geologischen Reichsanstalt Wien, **6**(1), heft 2, p. 1-356.

PASCHER, ADOLPH

1911. Zwei Braune Flagellaen: berichte der deutschen botanischen Gesellschaft, **29**: 517-523.

PETERS, WILHELM

1854. Uebersicht der auf seiner Reise nach Mossambique beobachteten Schildkröten: Monatsbericht der Preussischen Akademie der Wissenschaften zu Berlin, 1854, p. 215-216.

PILSBRY, H. A.

1916. The sessile barnacles (Cirripedia) contained in the collections of the U.S. National Museum; including a monograph of the American species: Bulletin of the U.S. National Museum, **93**: 1-335.

PITON, L. E. & N. THEOBALD

1939. Poissons, crustaces et insectes fossiles de l'Oligocene du Puy-de-Muir (Euvergne): Memoires de la Societé des Sciences de Nancy, 1939: 1-45.

PONGRÁCZ, A.

1928. Die Fossilen insekten von Ungarn, mit besonderer Berücksichtigung der Entwicklung der Europäischen Insecten-fauna: Annales Historico-Naturales Musei Nationalis Hungarici, **25**: 91-194.

REIBISCH, J.

1893. Wissenschaftliche Mitteilungen. 3. Die Phylodociden der Plankton Expedition. PP. 248-255.

SCHLENTENDAL, D. H. R. VON

1894. Beiträge zur Kenntnis fossiler Insekten aus dem Braunkohlengeburge von Rott am Siebengebirge: Abhandlungen der Naturforschenden Gesellschaft zu Halle, **20**: 197-228.

SCHMIDT-GOEBEL, H. M.

1846. Faunula Coleopterorum Birmanicae, adjectis nonnullis Bengaliae indigenis. PP. 1-94. (Prague).

SCUDDER, S. H.

1893. Tertiary rhynchophorous Coleoptera of the United States: U.S. Geological Survey Monograph, **21**: 1-206.

SELYS-LONGCHAMPS, E. DE

1889. Odonates de Sumatra comprenant des espèces recueillies à Pulo Nias par M. le Dr. E. Modigliana: *Annali de Museo civico di naturae di Genova*, **27**: 444-480.

SOIKA, A. G.

1936. Caratteri del gen, *Nortonia* Sauss. e descrizione due nuove specie: *Annali del Museo Civico Storia naturae di Genova*, **59**: 267-271.

STAⁿ L, CARL

1865. Hemiptera Africana, *Holmia officina norsted-tiana*, vol. 3, pp. 356.

STEVENS, J. F.

1931. *Illustrations of British Entomology*, vol. 3, pp. 1-374.

TURNER, R. E.

1907. New species of Sphegidae from Australia: *Annals & Magazine of Natural History*, (7) **19**: 268-276.

TIMON-DAVID, JEAN

1944. Insectes fossiles de l'Oligocene inferieur des Camoins (Bassin lde Marseille). II: Hymenopteres: *Bulletin de la Societé Entomologique de France*, **49**: 40-45.



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