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CORRECTIONS AND ADDITIONS TO "LIST OF TYPE  
SPECIES OF THE GENERA AND SUBGENERA  
OF FORMICIDÆ"

BY WILLIAM MORTON WHEELER

Since my list of generic and subgeneric types of the Formicidæ was published,<sup>1</sup> Mr. Sievert Rohwer has kindly called my attention to some type determinations of earlier dates than those I recorded and especially to the genus *Cephalotes* Latreille, which has been incorrectly cited by Dalla Torre in his "Catalogus Hymenopterorum" and generally ignored by myrmecologists. Prof. Carlo Emery has called attention to a few omissions and incorrect determinations of types,<sup>2</sup> and I have myself detected several others. While seizing the opportunity to make corrections, I have added the types of a number of new genera and subgenera established during or since the publication of my paper. In this list of additions there are a number of subgenera of *Camponotus* recently published by Forel. Strangely enough, he does not designate the types, although nothing could have been more necessary in splitting up such a huge and perplexing genus as *Camponotus*. When he mentions several species belonging to one of these new subgenera, I have uniformly selected the first as the type, not because I am an unqualified adherent to the "first species rule," but because Forel probably intended to indicate the first species as the type.

CORRECTIONS

**Aneleus** EMERY.—I cited *Solenopsis similis* Mayr as the type of this subgenus, supposing it to be monobasic, but this is far from being the case. Emery cites six species of *Pheidologeton* as belonging to *Aneleus*, and as he mentions *Ph. pygmæus* Emery as the first in his list, this should be regarded as the type, especially as the soldier or most characteristic phase of the oldest known species, *S. similis*, has not been described.

**Atopogyne** FOREL.—Emery prefers to regard *Formica depressa* Latreille as the type of this subgenus, instead of *Crematogaster hellenica* Forel, the species I selected, because *depressa* is the most characteristic

<sup>1</sup> Annals N. Y. Acad. Sci., Vol. XXI, pp. 157-175. 1911.

<sup>2</sup> Les Espèces-Type des Genres et Sous-Genres de la Famille des Formicidés. Ann. Soc. Ent. Belg., LVI, pp. 231-233. 1912.

species and because it was Forel's intention to regard it as the type, as he subsequently stated in a letter to Emery.

**Azteca** FOREL.—The type of this genus is not *Tapinoma instabilis* F. Smith, but *Azteca instabilis* Forel (= *A. muelleri* Emery), as Emery maintains (Genera Insect. Fasc. 137, p. 31, 1912).

**Cataglyphis** FÖRSTER.—This should rank as an independent genus and not as a subgenus of *Myrmecocystus*.

**Cephalotes** LATREILLE.—The type is incorrectly cited as *Formica cephalotes* L. (= *Atta cephalotes*) instead of *F. atrata* L. (= *Cryptocercus atratus*). The genus *Cephalotes* was unfortunately regarded by Dalla Torre as a synonym of *Atta* Fabr., but it is evidently synonymous with and must replace *Cryptocercus*, as Mr. Rohwer maintains (*in literis*). Latreille described *Cephalotes* in the third volume of his *Hist. Nat. Crust. Insect.*, p. 357, which was published in 1802. The only species cited as an example is *Formica atrata*. On this same species he also based his genus *Cryptocercus* in the thirteenth volume of the same work, published in 1804 according to Mr. Rohwer, or 1805 according to Hagen (*Biblioth. Ent.*, p. 453) and Dalla Torre. It is evident, therefore, that *Cryptocercus* is isogenotypic with the earlier *Cephalotes* and must be consigned to the synonymy.

**Condyloodon** LUND.—The word "monobasic" should be added.

**Cosmacetes** SPINOLA.—The word "monobasic" should be added.

**Crematogaster** LUND.—Prof. Emery insists that the name of this genus should not be written *Cremastogaster*, because Lund, who mentions it only once, gives the word with a single *s*, and it is not certain that we are dealing with a typographical error. Emery also implies that Bingham was wrong in designating *Formica scutellaris* Olivier as the generic type. Lund cites no species in connection with *Crematogaster*, which is saved from being a *nomen nudum* only by the clear description of the abdomen, which exhibits peculiarities not found in any other genus of ants. As he had in mind only Brazilian species, Emery believes that one of these, e. g., *Formica acuta* Fabr., should be selected as the type. It might be contended, on the other hand, that in such a widely distributed and homogeneous genus as *Crematogaster*, it is better to select the common European form *C. scutellaris*, which is, moreover, closely related to the typical North American *C. lineolata* Say. At any rate, it is too late to make a change, because Bingham's designation, unless an earlier is found, will have to stand.

**Eciton** LATREILLE.—Shuckard (Swainson and Shuckard, *Hist. & Nat. Arrang. Ins.*, p. 173. 1840) states that *Formica hamata* Fabr. is the type of this genus.

**Formica** L.—*Formica rufa* L. is given as the type of this genus by Girard (Traité Élém. d'Ent., II, p. 1011. 1879).

**Gnamptogenys** ROGER.—My designation of *Ectatomma concinnum* F. Smith (*nec* Mayr) as the type of this subgenus is erroneous. Emery has rightly selected *G. tornata*, the first of two species described by Roger.

**Holcponera** MAYR.—Now ranks as an independent genus.

**Labidus** JURINE.—According to Mr. Rhower, Latreille designated *L. latreillei* Jurine (= *Eciton (Labidus) cæcum* Latr.) as the type of this subgenus as early as 1810.

**Leptothorax** MAYR.—Emery selects *L. clypeatus* Mayr as the type of this genus, both because it was the first species described by Mayr and because *L. acervorum* Nylander has already been made the type of the subgenus *Mychothorax* by Ruzsky.

**Myrmecia** FABRICIUS.—Shuckard (Hist. & Nat. Arrang. Ins., p. 173. 1840) designated *Formica gulosa* Fabr. as the type of this genus.

**Myrmica** LATREILLE.—Girard designated *Formica rubra* L. as the type of this genus (Traité Élém. d'Ent., II, p. 1016. 1879).

**Oecodoma** LATREILLE.—*Formica cephalotes* L. is designated as the type of this genus by Shuckard (Hist. & Nat. Arrang. Ins., p. 174. 1840).

**Rhytidoponera** MAYR.—This now ranks as an independent genus. I selected *Ectatomma metallicum*. F. Smith as its type. Emery designates *E. araneoides* Le Guillou (= *rugosum* F. Smith) (Gen. Insect., Fasc. 118. 1911), because it is the first species cited by Mayr and because he, Emery, had previously (1879) based the subgenus *Chalcoponera* on *E. metallicum*. I do not regard the first reason as cogent; the second is, of course, valid and sufficient.

**Tetramorium** MAYR.—*Formica cæspitum* L. is designated as the type of this genus by Girard (Traité Élém. d'Ent., II, p. 1016. 1879).

**Trigonogaster** FOREL.—Through a blunder of my amanuensis or of the printer the type of *Triglyphothrix* is repeated under this head. The correct type is *Trigonogaster recurvispinosa* Forel.

#### ADDITIONS

**Allophoidole** FOREL. Mém. Soc. Ent. Belg., XIX, p. 237. 1912. (Subgenus of *Pheidole*.)

Type: *Pheidole kingi* Ern. André (by present designation).

**Atopodon** FOREL. Rev. Suisse Zool., XX, p. 771. 1912. (Subgenus of *Acropyga*.)

Type: *Acropyga (Atopodon) ineza* Forel. (First of three species by present designation.)

- Atopula** EMERY. Ann. Soc. Ent. Belg., LVI, p. 104. 1912. (Subgenus of *Vollenhovia*.)  
Type: *Atopomyrmex nodifera* Emery (designated by Emery).
- Chalcoponera** EMERY. Ann. Mus. Stor. Nat. Genova, XXXVIII, p. 547. 1897. (Subgenus of *Rhytidoponera*.)  
Type: *Ectatomma metallicum* F. Smith (designated by Emery).
- Decapheidole** FOREL. Mém. Soc. Ent. Belg., XIX, p. 237. 1912. (Subgenus of *Pheidole*.)  
Type: *Pheidole perpusilla* Emery (by present designation).
- Emeryopone** FOREL. Rev. Suisse Zool., XX, p. 761. 1912.  
Type: *Emeryopone buttel-reepeni* Forel (monobasic).
- Forelomyrmex** *nom. nov.* for **Janetia** FOREL (1899), which is preoccupied by *Janetia* Kieffer (1896), a genus of Itoniidae (*Cecidomyiida*).
- Holcoponera** CAMERON. Whympers Travels in the Andes, Suppl., p. 92. 1891. (= *Cylindromyrmex* Mayr.)  
Type: *Holcoponera whympersi* Cameron = *Cylindromyrmex striatus* Mayr (monobasic).
- Hylomyrma** FOREL. Mém. Soc. Ent. Belg., XX, p. 16. 1912. (Subgenus of *Pogonomyrma*.)  
Type: *Pogonomyrma (Hylomyrma) columbicus* Forel (designated by Forel).
- Isopheidole** FOREL. Rev. Suisse Zool., XX, p. 765. 1912. (Subgenus of *Pheidole*.)  
Type: *Aphænogaster longipes* F. Smith var. *longicollis* Emery (monobasic).
- Leptomyrma** EMERY. Genera Insect., Fasc. 137, p. 16, *nota*. 1912.  
Type: *Leptomyrma maravigna* Emery (monobasic).
- Machaerogenys** EMERY. Gen. Insect., Fasc. 118, p. 100. 1911. (Subgenus of *Leptogenys*.)  
Type: *Leptogenys truncatirostris* Forel (designated by Emery).
- Mesomyrma** STITZ. Stitzb. Gesell. naturf. Freunde Berlin, p. 363. 1911. (Subgenus of *Podomyrma*.)  
Type: *Podomyrma (Mesomyrma) cataulacoidea* Stitz (monobasic).
- Metapone** FOREL. Rev. Suisse Zool., XIX, p. 447. 1911.  
Type: *Metapone greeni* Forel (monobasic).
- Myrmamblys** FOREL. Mém. Soc. Ent. Belg., XX, p. 90. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus reticulatus* Roger (by present designation).
- Myrmentoma** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica lateralis* Olivier (by present designation).

- Myrmepomis** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica sericeiventris* Guérin (by present designation).
- Myrmeurynota** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus eurynotus* Forel (by present designation).
- Myrmobrachys** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica senex* F. Smith (by present designation).
- Myrmogigas** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (= *Dinomyrmex* Ashmead; subgenus of *Camponotus*.)  
Type: *Formica gigas* Latreille (by present designation).
- Myrmogonia** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus laminatus* Mayr (by present designation).
- Myrmophyma** FOREL. Mém. Soc. Ent. Belg., XX, p. 91, 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus capito* Mayr (by present designation).
- Myrmorhachis** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus polyrhachoides* Forel (by present designation).
- Myrmosaga** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus kelleri* Forel (by present designation).
- Myrmosericus** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica rufoglauca* Jerdon (by present designation).
- Myrmosphincta** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica sexguttata* Fabricius (by present designation).
- Myrmotarsus** FOREL. Mém. Soc. Ent. Belg., XX, p. 92. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica mistura* F. Smith (by present designation).
- Myrmothrix** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica abdominalis* Fabricius (by present designation).
- Myrmotrema** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (Subgenus of *Camponotus*.)  
Type: *Camponotus foraminosus* Forel (by present designation).

- Myrmoturba** FOREL. Mém. Soc. Ent. Belg., XX, p. 91. 1912. (Subgenus of *Camponotus*.)  
Type: *Formica maculata* Fabricius (by present designation).
- Neoformica** subgen. nov. (Subgenus of *Formica*.)  
Type: *Formica pallidefulva* Latreille (by present designation).
- Octostruma** FOREL. Mém. Soc. Ent. Belg., XIX, p. 196. 1912. (Subgenus of *Rhopalothrix*.)  
Type: *Rhopalothrix simoni* Emery (by present designation).
- Odontopelta** EMERY. Genera Insect., Fasc. 118, p. 101. 1911. (Subgenus of *Leptogenys*.)  
Type: *Leptogenys (Lobopelta) turneri* Forel (monobasic).
- Pachysima** EMERY. Ann. Soc. Ent. Belg., LVI, p. 97. 1912. (Subgenus of *Sima*.)  
Type: *Sima athiops* F. Smith (designated by Emery).
- Parectatomma** EMERY. Genera Insect., Fasc. 118, p. 44. 1911. (Subgenus of *Ectatomma*.)  
Type: *Ectatomma triangulare* Mayr (designated by Emery).
- Pentastruma** FOREL. Entom. Mittheil., I, p. 51. 1912.  
Type: *Pentastruma sauteri* Forel (monobasic).
- Phasmomyrmex** STITZ. Mitth. Zool. Mus. Berlin, V, p. 146. 1910. (Subgenus of *Camponotus*.)  
Type: *Camponotus buchneri* Forel (monobasic).
- Physocrema** FOREL. Mém. Soc. Ent. Belg., XIX, p. 220. 1912. (Subgenus of *Crematogaster*.)  
Type: *Crematogaster inflata* F. Smith (by present designation).
- Poneracantha** EMERY. Ann. Mus. Stor. Nat. Genova, XXXVIII, p. 548. 1897. (Subgenus of *Ectatomma*.)  
Type: *Ectatomma (Poneracantha) bispinosum* Emery (monobasic).
- Pristomyrmecia** EMERY. Genera Insect., Fasc. 118, p. 21. 1911. (Subgenus of *Myrmecia*.)  
Type: *Myrmecia mandibularis* F. Smith (designated by Emery).
- Proatta** FOREL. Rev. Suisse Zool., XX, p. 768. 1912.  
Type: *Proatta butteli* Forel (monobasic).
- Promyrma** FOREL. Rev. Suisse Zool., XX, p. 764. 1912.  
Type: *Promyrma butteli* Forel (monobasic).
- Promyrmecia** EMERY. Genera Insect., Fasc. 118, p. 19. 1911. (Subgenus of *Myrmecia*.)  
Type: *Myrmecia aberrans* Forel (designated by Emery).
- Psammomyrma** FOREL. Mém. Soc. Ent. Belg., XIX, p. 237. 1912. (Subgenus of *Dorymyrmex*.)  
Type: *Dorymyrmex planidens* Mayr (by present designation).

- Stegomyrmex** EMERY. Ann. Soc. Ent. Belg., LVI, p. 99. 1912.  
Type: *Stegomyrmex connectens* Emery (monobasic).
- Terataner** EMERY. Ann. Soc. Ent. Belg., LVI, p. 103. 1912.  
Type: *Atopomyrmex foreli* Emery (designated by Emery).
- Tetramyrma** FOREL. Rev. Suisse Zool., XX, p. 766. 1912. (Subgenus of *Dilobocondyla*.)  
Type: *Dilobocondyla (Tetramyrma) braunsi* Forel (monobasic).
- Trachymesopus** EMERY. Genera Insect., Fasc. 118, p. 84. 1911. (Subgenus of *Euponera*.)  
Type: *Formica stigma* Fabricius (designated by Emery.)