

MILWAUKEE PUBLIC MUSEUM

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# Contributions

in  
BIOLOGY  
and  
GEOLOGY

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Number 58

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Type Specimens in the Insect Collections  
of the Milwaukee Public Museum

Gerald R. Noonan

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This paper is the first list of type-material to be published for the insect collections of the Invertebrate Zoology Section of the Milwaukee Public Museum. The value of such a list is shown by recommendation 72 D of the *International Code of Zoological Nomenclature* (1964) which states that institutions with collections containing type material should publish lists of it. Systematists at universities and at other museums use such lists to locate types of species in which they are interested. Such lists also provide an accounting of type-material and establish a baseline on which a museum can measure future growth and on which subsequent acquisitions can be recorded and published.

The origins of the museum's insect collections can be traced back to private citizens who assembled collections before or approximately simultaneously with the opening of the museum a century ago. These individuals ultimately donated their holdings to the museum, and as the insect collections grew, curators were hired to care for and to augment them. During the early part of this century the collections grew rapidly, and curators such as C. T. Brues and S. Graenicher added considerable type and non-type material. The depression caused a hiatus in the development of the collections. This was followed by a period in which curators necessarily spent much of their time planning for the construction of the present building occupied by the museum and then in helping fill its public areas with new exhibits. The present building was opened in 1963, and by the 1970s it was possible for curators to again devote a substantial portion of their time to curation.

The insect collections presently total approximately 400,000 specimens, with about half of these having been added since 1975. These collections contain 60 holotypes, syntypes of 55 species, and allotypes or paratypes of 67 more species. Holotypes, syntypes and allotypes are maintained separately from the general collections. "Allotype" in this paper means a paratype of the sex opposite to that of the holotype.

The following list of type-specimens is arranged alphabetically by taxa. Taxa are listed by their original generic and specific names; no attempt is made to list any recombinations of names or synonymies which may have occurred since the original descriptions. The complete citations of original descriptions are provided in the Literature Cited section.

#### ORDER COLEOPTERA

##### FAMILY BUPRESTIDAE

*Chalcophora melanotum* Muttkowski, R. A. 1910a: 135-136. holotype.

#### FAMILY CARABIDAE

*Cicindela fulgoris albilata* Acciavatti, R. E. 1980: 238-240. 4 paratypes.  
*Cylindera (Plectographa) nahuelbutae* Pena, L. E. 1957: 35-39. 5 paratypes.

*Notiobia (Anisotarsus) aguilarorum* Noonan, G. R. 1981: 11-14. holotype, allotype, and more than 500 paratypes.

*Notiobia (Anisotarsus) moffetti* Noonan, G. R. 1981: 37-40. holotype, allotype, and more than 500 paratypes.

#### FAMILY CLERIDAE

*Clerus muttkowskii* Wolcott, A. B. 1909: 98. holotype.

*Cymatodera pubescens* Wolcott, A. B. 1909: 94-95. holotype.

*Pelonium granulosum* Wolcott, A. B. 1909: 100-101. holotype and paratype.

#### FAMILY DYTISCIDAE

*Desmopachria aldessa* Young, F. N. 1980: 312-313. 10 paratypes.

*Desmopachria auureus* Young, F. N. 1980: 313-314. 10 paratypes.

*Neobidessus alvarengai* Young, F. N. 1981: 336-337. 10 paratypes.

### ORDER DIPTERA

#### FAMILY ACROCERIDAE

*Ogcodes (Ogcodes) adaptatus* Schlinger, E. I. 1960: 297-304. 2 paratypes.

#### FAMILY BOMBYLIIDAE

*Anthrax nemakagonensis* Graenicher, S. 1910b: 26-27. 16 syntypes.

#### FAMILY CECIDOMYIIDAE

*Asynapta antennariae* Wheeler, W. M. 1889: 212-214. 1 syntype; also a second specimen which may be a syntype of this species or of *Cecidomyia antennariae* Wheeler.

*Cecidomyia antennariae* Wheeler, W. M. 1889: 209-212. See remarks for *Asynapta antennariae*

#### FAMILY CONOPIDAE

*Zodion lativentre* Graenicher, S. 1910b: 26. holotype.

#### FAMILY HELOMYZIDAE

*Anorostoma maculatum* Darlington, P. S. 1908: 76-77. 4 syntypes.

#### FAMILY PHORIDAE

*Aphiochaeta braunsi* Brues, C. T. 1907a: 390-392. 2 syntypes.

*Aphiochaeta longifrons* Brues, C. T. 1906c: 100-101. holotype.

*Phora occidentalis* Brues, C. T. 1908c: 200. 2 syntypes.

*Phora variabilis* Brues, C. T. 1908c: 199-200. holotype and 1 paratype.

*Plastophora juli* Brues, C. T. 1908c: 201. 2 syntypes.

**FAMILY SPHAEROCHERIDAE**

*Leptocera (Opacifrons) sciaspidis* Spuler, A. 1924: 124-126. 1 paratype.

*Leptocera (Scotophilella) longicosta* Spuler, A. 1925: 155-156. 4 paratypes.

*Leptocera (Scotophilella) ordinaria* Spuler, A. 1925: 159-160. 1 paratype.

**FAMILY SYRPHIDAE**

*Cheilosia (Cartosyrphus) wisconsinensis* Fluke, C. L. and F. Hull 1947: 232-234. 1 allotype and 1 paratype.

*Helophilus bruesi* Graenicher, S. 1910a: 40-41. holotype.

*Syrphus montivagus* Snow, W. A. 1895: 236-237. 2 syntypes.

**FAMILY TABANIDAE**

*Chrysops aberrans* Philip, C. B. 1941: 122-126. 1 paratype.

*Chrysops asbestos* Philip, C. B. 1950: 455-457. 1 paratype.

*Chrysops venus* Philip, C. B. 1950: 457-458. 1 paratype.

**FAMILY TIPULIDAE**

*Tipula dickinsoni* Alexander, C. P. 1932: 240-242. holotype, allotype, and 1 paratype.

**ORDER HEMIPTERA**

**FAMILY GERRIDAE**

*Halobates acherontis* Polhemus, J. T. 1982: 6-7. 2 paratypes.

*Rheumatobates aestuarius* Polhemus, J. T. 1969: 509-511. 16 paratypes.

*Trepobates polhemi* Kittle, P. D. 1982: 161-164. 4 paratypes.

**FAMILY VELIIDAE**

*Rhagovelia atrispina* Polhemus, J. T. 1977: 645-646. 16 paratypes.

*Rhagovelia chiapensis* Polhemus, J. T. 1980: 311-313. 4 paratypes.

*Stridulivelia (Aenictovelia) secerna* Polhemus, J. T. 1979: 46-50. 16 paratypes.

**ORDER HOMOPTERA**

**FAMILY APHIDIDAE**

*Cerosipha araliaeradicis* Strom, L. G. 1938: 471-473. 5 paratypes.

**ORDER HYMENOPTERA**

**FAMILY ANDRENIDAE**

*Andrena albofoveata* Graenicher, S. 1903: 166. 1 syotype.

*Andrena braccata* Viereck, H. L. 1907a: 284, 287. 3 possible syntypes.

*Andrena cockerelli* Graenicher, S. 1903: 163-164. 2 syntypes.

*Andrena crawfordi* Viereck, H. L. 1909: 143-144. 2 paratypes.

*Andrena fragariana* Graenicher, S. 1904: 64-65. 2 syntypes.  
*Andrena milwaukeensis* Graenicher, S. 1903: 164-165. 1 syntype.  
*Andrena nivaloides* Graenicher, S. 1911: 235-236. holotype and 1 paratype.

*Andrena thaspiae* Graenicher, S. 1903: 162. 3 syntypes.  
*Andrena weedi* Viereck, H. L. 1907a: 284, 288. 2 paratypes.  
*Andrena wheeleri* Graenicher, S. 1904: 65-66. 1 syntype.  
*Andrena (Trachandrena) atlantica* Mitchell, T. B. 1960: 178-179. 2 paratypes.

*Perdita citrinella* Graenicher, S. 1910c: 103-104. holotype.  
*Perdita cockerelli* Crawford, J. C. 1906b: 282-283. 2 paratypes.  
*Perdita maculipennis* Graenicher, S. 1910c: 102-103. holotype and 2 paratypes.

*Perdita pallidipennis* Graenicher, S. 1910c: 101-102. 2 syntypes.

#### FAMILY ANTHOPHORIDAE

*Nomada cockerelli* Graenicher, S. 1911: 240-241. holotype.  
*Nomada wisconsinensis* Graenicher, S. 1911: 239-240. 2 syntypes.  
*Tripeolus oblitteratus* Graenicher, S. 1911: 242-243. 2 syntypes.

#### FAMILY BETHYLIDAE

*Cephalonomia utahensis* Brues, C. T. 1908c: 154. 1 paratype.  
*Gonatopus capensis* Brues, C. T. 1906b: 105-106. holotype.  
*Gonatopus pilosipes* Brues, C. T. 1906b: 104-105, plate 1. holotype.  
*Gonatopus similis* Brues, C. T. 1906b: 107. holotype.  
*Gonatopus varipes* Brues, C. T. 1906b: 106. holotype.  
*Goniozus hortorum* Brues, C. T. 1907e: 150-151. 1 syntype.  
*Gynochelys braunsi* Brues, C. T. 1906b: 108-109, plate 1. holotype.  
*Mystrocnenis capensis* Brues, C. T. 1906b: 103-104. holotype.  
*Pristocera hyalina* Brues, C. T. 1906d: 143. holotype.

#### FAMILY BRACONIDAE

*Asobara barthii* Brues, C. T. 1907c: 57-58. lectotype (designated by Fischer 1973: 260) and 4 paralectotypes.  
*Calyptus collaris* Brues, C. T. 1907e: 159-160. holotype.  
*Helcon ferrugineus* Brues, C. T. 1907e: 158-159. 2 syntypes.  
*Helorimorpha melanderi* Brues, C. T. 1908a: 363-364. holotype.  
*Hormiopterus caudatus* Brues, C. T. 1907c: 62. holotype.  
*Orthostigma americana* Brues, C. T. 1907c: 59-60. holotype.  
*Pambolus dispar* Brues, C. T. 1907d: 110-111. 1 syntype.

#### FAMILY CERAPHRONIDAE

*Ceraphron brevicornis* Brues, C. T. 1906d: 146-147. holotype.  
*Ceraphron quissetensis* Brues, C. T. 1906d: 147-148. holotype.

FAMILY COLLETIDAE

*Colletes vicinalis* Graenicher, S. 1911: 228-229. holotype.

FAMILY CRABONIDAE

*Crabro (Protothyreopus) dilectiformis* Rohwer, S. A. 1909a: 146-147.  
holotype.

FAMILY DIAPRIIDAE

*Galesus autumnalis* Brues, C. T. 1906d: 151-152. holotype.

FAMILY DRYINIDAE

*Aphelopus varicornis* Brues, C. T. 1906d: 143-144. holotype.

FAMILY ENCYRTIDAE

*Charitopus albopalpalis* Brues, C. T. 1907b: 47-48. holotype.

*Metapelma mirabilis* Brues, C. T. 1906b: 111-112. 2 syntypes.

*Parasolindenia aptera* Brues, C. T. 1907b: 49-50. holotype.

FAMILY EULOPHIDAE

*Chrysocharis aeneus* Brues, C. T. 1909: 161. 6 syntypes.

*Nesomyia cimbicis* Brues, C. T. 1909: 162. holotype and 2 paratypes.

FAMILY EUPELMIDAE

*Eupelminus robustus* Brues, C. T. 1907b: 50-51. holotype.

*Eupelmus cursor* Brues, C. T. 1907b: 52-53. holotype.

*Eupelmus melanderi* Brues, C. T. 1907c: 54-55. 3 syntypes.

*Eupelmus cursor* Brues, C. T. 1907b: 52-53. holotype.

*Eupelmus melanderi* Brues, C. T. 1907c: 54-55. 3 syntypes.

*Eupelmus nubifer* Brues, C. T. 1907b: 51-52. holotype.

*Eupelmus volator* Brues, C. T. 1907b: 52. holotype.

FAMILY HALICTIDAE

*Conohalictoides monardae* Viereck, H. L. 1924: 14-15. holotype and  
3 paratypes.

*Halictus lineatulus* Crawford, J. C. 1906a: 5-6. 1 syntype.

*Halictus nevadensis* Crawford, J. C. 1907a: 195-196. 1 syntype.

*Halictus nigroviridis* Graenicher, S. 1911: 233. holotype.

*Halictus quebecensis* Crawford, J. C. 1907b: 189. 1 syntype.

*Halictus vierecki* Crawford, J. C. Jr. 1904: 97-99. 1 syntype.

*Sphecodes solonis* Graenicher, S. 1911: 229-230. 2 syntypes.

FAMILY ICHNEUMONIDAE

*Enizemum neomexicanum* Brues, C. T. 1908b: 54-55. 1 specimen  
which is either a syntype or the holotype.

*Metopius birkmani* Brues, C. T. 1907c: 56-57. 2 syntypes.

*Oxytorus paludicola* Brues, C. T. 1908b: 50-51. 1 syntype.

*Promethes rohweri* Brues, C. T. 1908b: 51-52. Lectotype (designated  
by Dasch, 1964: 254) and three paralectotypes.

*Syrphoctonus laevis* Brues, C. T. 1908b: 53-54. holotype.

*Zootrephes similis* Brues, C. T. 1908b: 52-53. 1 specimen which is either a syntype or the holotype.

FAMILY LARRIDAE

*Tachytes calcaratiformis* Rohwer, S. A. 1909b: 204. 3 syntypes.

*Tachytes dubitatus* Rohwer, S. A. 1909b: 202-204. 2 syntypes.

*Tachytes propinquus* Rohwer, S. A. 1909b: 198-199. 1 syntype.

FAMILY MEGACHILIDAE

*Anthidium (Protanthidium) chippewaense* Graenicher, S. 1910c: 157-158. 3 syntypes.

*Megachile (Litomegachile) brevis pseudobrevis* Mitchell, T. B. 1935: 20-21. holotype.

FAMILY MYMARIDAE

*Alaptus caecilii* Girault, A. A. 1908: 189-191. 3 syntypes.

*Gonatocerus americanus* Brues, C. T. 1907d: 109-110. holotype.

FAMILY PEMPHREDONIDAE

*Psen (Mimesa) barthi* Viereck, H. L. 1907b: 251. holotype.

FAMILY PHILANTHIDAE

*Cerceris echo atrata* Scullen, H. A. 1965: 377-378. 1 paratype.

FAMILY PLATYGASTERIDAE

*Crabroborus krombeini* Muesebeck, C. F. W. 1963: 392-394. 1 paratype.

*Aphanomerus americanus* Brues, C. T. 1909: 156. 2 syntypes.

*Polygnotus caninifrons* Brues, C. T. 1910: 155-156. 2 syntypes.

*Polygnotus coronatus* Brues, C. T. 1910: 154-155. 2 syntypes.

*Polygnotus latescens* Brues, C. T. 1910: 156-157. 2 syntypes.

*Polygnotus mediocris* Brues, C. T. 1910: 157-158. 2 syntypes.

*Rosnetia tritici* Brues, C. T. 1909: 157. 1 syntype.

*Xestonotus meridionalis* Brues, C. T. 1910: 150-151. 2 syntypes.

FAMILY PTEROMALIDAE

*Asaphes rufipes* Brues, C. T. 1909: 160. holotype.

*Ormyrodes carinatus* Brues, C. T. 1907b: 46. holotype.

FAMILY SCELIONIDAE

*Hoploteleia noveboracensis* Brues, C. T. 1908b: 49-50. holotype.

*Macroteleia surfacei* Brues, C. T. 1907e: 153-154. 2 syntypes.

*Scelio monticola* Brues, C. T. 1906a: 184-185. 1 syntype.

*Scelio nitens* Brues, C. T. 1906b: 110-111. 4 syntypes.

*Scelio pulchripennis* Brues, C. T. 1906b: 109-110. 3 syntypes.

*Scelio striaticollis* Brues, C. T. 1906a: 222. 1 syntype.

*Sparaison graenicheri* Brues, C. T. 1906d: 149-150. holotype.

*Sparaison gregarium* Brues, C. T. 1907e: 154-155. 2 specimens which are probably syntypes.

*Telenomus heracleicola* Brues, C. T. 1906d: 148. 3 syntypes.

FAMILY SPHECIDAE

*Tachysphex krombeiniellus* Pulawski, W. J. 1982: 41. 2 paratypes.

ORDER LEPIDOPTERA

FAMILY ARCTIIDAE

*Automolis gagarini* Travassos, L. 1955: 97-101. 2 specimens which may be paratypes.

*Phragmotobia lineata* Donahue, J. P. and J. H. Newman. 1966: 40-48. 2 paratypes.

*Rhipha olafi* Gagarin, P. 1967: 11. holotype.

*Utetheisa lothrix pitcairni* Moeck, A. H. 1963: 59. 8 syntypes.

FAMILY CASTNIIDAE

*Castnia escalantei* Miller, J. Y. 1976: 7-9. 1 paratype.

FAMILY LYCAENIDAE

*Chrysozephyrus neidhoeferi* Shimonoya, T. and S. Murayama 1971: 18-19, 21, plate 1. 1 paratype.

*Orthomiella lucida* Forster, W. 1942: 580. 1 paratype.

*Orthomiella pontis fukienensis* Forster, W. 1941: 624-626. 1 paratype.

FAMILY NYMPHALIDAE

*Anaea rosae* Fassl, A. H. 1909: 81-83. 3 specimens which may be syntypes.

*Charaxes patergodarti* Neidhoefer, J. R. 1972: 5, 7, 8. holotype.

*Cymothoe meridionalis* Overlaet, F. G. 1944: 41-43. 2 specimens which may be paratypes.

*Cymothoe sangaris luluana* Overlaet, F. G. 1945: 276-277. 2 paratypes.

*Hypolimnas macarthurii* Neidhoefer, J. R. 1972: 3-6. holotype and 1 allotype.

*Melitaea pseudathalia lepongica* Rütimeyer, E. 1943: 30-32. 2 syntypes.

*Speyeria atlantis dorothea* Moeck, A. H. 1947: 73-75. 50 paratypes.

*Speyeria atlantis greyi* Moeck, A. H. 1950: 61-64. 10 paratypes.

FAMILY PAPILIONIDAE

*Ornithoptera chimaera draco* Rousseau-Decelle, G. 1935: 44-45. holotype.

*Papilio erostratinus* Vazquez, L. 1947: 252-255. 2 paratypes.

*Papilio prattorum* Joicey, J. J. and G. Talbot. 1922: 360-362. 1 syntype.

FAMILY PARNASSIIDAE

*Parnassius apollo calmensis* Rütimeyer, E. 1947: 347-350. 2  
paratypes.

FAMILY SATURNIIDAE

*Actias neidhoeferi* Ong, S. K. and C. K. Yu. 1968: 10-11, plate 3.  
allotype and 4 paratypes.

*Adelowalkeria (Rachesa) caucensis* LeMaire, C. 1969: 82-84. 2  
paratypes.

*Antistathmoptera daltonae rectangulata* Pinhey, E. 1972: 158-155. 1  
paratype.

*Automeris banus argentifera* LeMaire, C. 1966a: 158-159. 1 paratype.  
*Automeris contempta contempta* LeMaire, C. 1966b: 221-222. 2  
paratypes.

*Automeris contempta flavissima* LeMaire, C. 1966b: 222-223. 1  
paratype.

*Automeris contempta nyctimenoides* LeMaire, C. 1966b: 222. 1  
paratype.

*Automeris denhezorum* LeMaire, C. 1966a: 160. 1 paratype.

*Automeris margaritae* LeMaire, C. 1966b: 217-218. 1 paratype.

*Automeris (Automeris) fieldi* LeMaire, C. 1969: 85-87. 2 paratypes.

*Cerodirphia candida* LeMaire, C. 1969: 92-94. 2 paratypes.

*Dirphiopsis wanderbilti* Pearson, H. R. 1958: 7-15. 1 paratype.

*Eacles imperialis pini* Michener, C. D. 1950: 17-21. 2 paratypes.

*Gamelia neidhoeferi* LeMaire, C. 1966c: 299-300. 2 paratypes.

FAMILY SATYRIDAE

*Erycinidia maudei* Joicey, J. J. and G. Talbot. 1916: 74-75. 2  
syntypes.

*Lyela amirica* Wyatt, C.W. 1961: 16-17. 2 paratypes.

FAMILY SPHINGIDAE

*Amplypterus gagarini* Zikán, J. F. 1935: 66-68. 1 paratype.

*Cautethia noctuiformis bredini* Cary, C. R. 1970: 267-270. 1 paratype.  
*Ceratomia catalpae kanawahensis* Sweadner, W., F. H. Chermock  
and R. L. Chermock. 1940: 137-138. 6 paratypes.

*Epistor caviger paganus* Kernbach, K. 1957: 79. 1 paratype.

*Erinnyis alope dispersa* Kernback, K. 1962: 9-10. 1 paratype.

*Euryglottis davidianus* Dognin, P. 1891: 159. 1 syntype.

*Hemeroplanes elainae* Neidhoefer, J. R. 1968: 5-6, plate 1. 7  
paratypes.

*Hyloicus gerhardi* Barnes, W. and F. H. Benjamin 1924: 166. 1  
paratype.

*Madoryx oculus jamicensis* Neidhoefer, 1968: 3-5. 7 paratypes.

*Protoparce empusa* Kernbach, K. 1965: 18-20. 1 paratype.

- Pseudoclaniis postica evistigata* Kernbach, K. 1955b: 30-32. 1 paratype  
*Smerinthus jamaicensis gamma* Cockerell, T. D. A. 1925: 37-38. 1 paratype.  
*Sphinx phalerata* Kernbach, K. 1955a: 101-103. 2 paratypes.  
*Sphinx pitzahuac* Mooser. 1948: 547-549. 1 paratype.

#### ORDER ODONATA

##### FAMILY COENAGRIONIDAE

- Enallagma lunifera* Muttkowsky, R. A. 1913: 164-165. holotype.  
*Enallagma walkeri* Muttkowsky, R. A. 1911b: 33-34. holotype and 1 paratype.

*Ischnura utahensis* Muttkowsky, R. A. 1910b: 172-173. 1 paratype.

##### FAMILY CORDULIIDAE

- Tetragoneuria cynosura simulans* Muttkowsky, R. A. 1911c: 106, 111-117. 1 syntype.  
*Tetragoneuria petechialis* Muttkowsky, R. A. 1911c: 101-104. holotype.  
*Tetragoneuria williamsoni* Muttkowsky, R. A. 1911c: 122-124. 1 paratype.

##### FAMILY GOMPHIDAE

- Gomphus brimleyi* Muttkowsky, 1911a: 221-223. holotype, allotype, and 2 paratypes.  
*Gomphus whedoni* Muttkowsky, 1913: 167-170. holotype.

#### *Types Lost from the Collections*

#### ORDER DIPTERA

##### FAMILY PHORIDAE

- Aphiochlaeta cavernicola* Brues, C. T. 1906c: 101-102. The type specimens were apparently sent elsewhere or lost prior to 1975.

#### ORDER HYMENOPTERA

##### FAMILY BRACONIDAE

- Acrisis americanus* Brues, C. T. 1907e: 160-161. The holotype was apparently lost from the museum collections prior to 1975.  
*Dinotrema soror* Brues, C. T. 1907c: 59. The holotype was lost from the collections prior to 1975.

#### ORDER ODONATA

##### FAMILY CORDULIIDAE

- Tetragoneuria morio* Muttkowsky, R.A. 1911c: 125-127. The holotype was apparently lost from the collections prior to 1975.

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Dr. Allen M. Young, Invertebrate Zoology Section Head, provided encouragement and support necessary for completion of this project. I thank the following for looking up catalog data and obtaining original descriptions for many of the included species: Susan S. Borkin; Meredith Platt; Robert R. Murray; Maria Plonczynski; Stephen Wallace; and Craig Yanek. Dr. Robert Murray provided comments on the evaluations of some species.

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