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The Bembicine Wasps (Hym.).

By T. D. A. COCKERELL, University of Colorado, Boulder, Colo.

Entomologists are greatly indebted to Professor J. B. Parker for his exhaustive study of the Bembicine wasps of North America, published in *Proceedings, United States National Museum*, Vol. 52, pp. 1-155 (1917). The work represents the labor of years, and includes full descriptions, tables of genera and species, and excellent illustrations. Strangely enough, for reasons which it is hard to comprehend, the author has failed to complete his elaborate treatment by giving adequate particulars concerning the localities of the new species. After so much labor, why was that of copying the labels of the specimens described too great to be undertaken? Why was it considered,—if the matter was considered,—that in a State containing six different life zones the type locality of a species was a matter of utter indifference? There is no good reason why entomologists should not conform to the rules of procedure in describing new species, which are well established in botany, ornithology and other kindred sciences. It is just as easy to do these things properly as any other way, and it seems a pity that entomological writings, so admirable in nearly every respect, should fail where failure could so readily be avoided. There are two orders of insects, the Orthoptera and Odonata, in which the treatment in practically all recent American papers is above reproach. These orders have been fortunate in being studied by men who were well acquainted with the best methods employed in other departments of zoology. Why should not Lepidopterists, Hymenopterists and Coleopterists take note?

In the particular case under discussion I have thought it useful to ascertain the type localities of many of the new species and publish the data. For the particulars given I am greatly indebted to Mr. S. A. Rohwer and Professor S. J. Hunter.

(A.) Types in University of Kansas.

Bembix helianthopolis. Type ♀, Graham Co., Kansas, 2130 ft., August 16, 1912 (F. X. Williams). Allotype ♂, same data; also two paratypes with same data, and one paratype from Trego Co., July 12, 1912.

Hymenoptera - Sphecidae - Bembicinae

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- Bembix latifrons.** Albuquerque, New Mexico, Aug., 1894 (Snow).
Microbembex aurata. Three paratypes, collected by F. H. Snow in Arizona, at Bill Williams Fork, Aug.; Congress Junction, July; Baboquivari Mts.
Stictiella melampous (sic!). Nothing to add except that date is Aug. 18.
Stictiella divergens. Type, Sheridan Co., Kansas, 2650 ft. (F. X. Williams). Paratype, Ness Co., Kans., 2260 ft., July 7, 1912 (Williams).
Bicyrtes annulata. Type, Oak Creek Canon, Ariz., 6000 ft., July (F. H. Snow).
Bicyrtes gracilis. Add 5000-8000 ft., July:

(B.) Types in the United States National Museum.

- Stictiella melanosterna.** Type ♂ and allotype ♀, Las Cruces, New Mexico (Cockerell). The type was taken in 1894.
Stictiella callista. Type ♂, Mesilla Park, N. M., at flowers of *Chilopsis linearis*, June 9, 1898 (Cockerell). Allotype ♀, Mesilla, N. M., at flowers of *Leucosyris spinosus*, July 21 (Cockerell).
Stictiella bituberculata. Type ♂, San Bernardino County, Calif. (Coquillett). Allotype ♀, mouth Los Gatos Canon, Mt. Diablo R., Fresno County, Calif., June 2, 1907 (Bradley).
Stictiella megacera. Allotype ♂, N. Yakima, Wash., July 17, 1903 (Eldred Jenne).
Bicyrtes annulata. Paratypes; Albuquerque, N. M. (Ashmead collection); Mesilla Park, N. M., Sept. 18, 1899 (Cockerell); El Paso, Texas, Aug. 21, 1908 (F. C. Pratt).
Bembix arcuata. Type, Cotulla, Tex., May 11, 1906 (J. C. Crawford).
Bembix hinei. Type ♂, Galveston, Tex., May (Snow); allotype ♀, Padre I., Texas, June 29, 1895.
Bembix comata. Type ♂ and allotype ♀, California (no other data on labels).
Bembix melanaspis. Type ♂, Los Angeles Co., Calif. (Coquillett). Allotype ♀, California (Baker, 2363).
Microbembex aurata. Type ♂ and allotype ♀, Los Angeles Co., Calif. (Coquillett).
Microbembex hirsuta. Type ♂ and allotype ♀, Brewster Co., Tex.; Rio Grande, June 13 to 17, 1908 (Mitchell and Cushman).
Steniolia albicantia. Type, Grand Coulee, Columbia R., Wash., July 12, 1902.

The type of **Bembix rugosa** is labelled only "Arizona."

(C.) Types at the Academy of Natural Sciences of Philadelphia.

- Bembix foxi.** Type ♂ and allotype ♀, Illinois [labelled "Ill."].