DISCOVERY OF FIRST RESIDENT POPULATION OF THE EUROPEAN BEE, MEGACHILE APICALIS IN THE UNITED STATES (HYMENOPTERA: MEGACHILIDAE)¹

Kenneth W. Cooper²

ABSTRACT: The first resident population in the United States of *Megachile apicalis* Spinola is reported from Santa Barbara County, California.

North American records of the European Megachile (Eutricharaea) apicalis Spinola ("Canada, N.J., Va.") listed in the Catalog of Hymenoptera of America North of Mexico (1979) are old, none later than 1931, and are based on few specimens collected in eastern North America (4 females, 2 doubtful males; Mitchell 1937, 1962). Indeed Mitchell (1962) held that "It is not clear . . . that M. (E.) apicalis has been entirely successful in becoming established on this continent."

Returning from a collecting trip to San Marcos Pass (site at ca. 610 m elevation), Santa Barbara County, CA (Aug. 10, 1982), Jack Hall (Dept. of Ent., Univ. of Calif., Riverside) and I were surprised to find 2 female M. (E.) apicalis among the specimens taken. Exactly one year later, I returned to the same site, a small clearing within chaparral, and collected an additional 8 females and 7 males on thistle [Cirsium?vulgare(Savi) Ten.] and on Lotus scoparius (Nutt. in T. & G.) Ottley. The following day three additional males were taken on a lavender "aster", Erigeron sp., growing along the yellow pine-wooded margin of a firebreak, adjacent to chaparral, (at 1160 m) near Cachuma Saddle, on Figueroa Mt., some 30 km east of San Marcos Pass.

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²Department of Biology, University of California, Riverside, CA 92521.

LITERATURE CITED

- Mitchell, T. D. 1937. A revision of the genus *Megachile* in the Neararctic Region. VIII. Taxonomy of the subgenus *Chelostomoides*, addenda and index. Trans. Amer. Ent. Soc. 63:381-426.
- Mitchell, T. D. 1962. Bees of the eastern United States. Vol. 2. North Car. Agr. Exp. Sta., Tech. Bull. 152:1-557.
- **Parker, F. D.** 1978. An illustrated key to Alfalfa leafcutter bees *Eutricharaea*. Pan-Pac. Ent. 54:61-64.

BOOKS RECEIVED AND BRIEFLY NOTED

COSTA RICAN NATURAL HISTORY. D.H. Janzen, ed. 1983. Univ. of Chicago Press. 816 pp. \$30.00 (paper), \$50.00 (cloth).

Introduction into biology and literature of Costa Rican organisms, including biotic history, palaeogeography, climate, geology, soils, agriculture, plants, insects, amphibians, reptiles, birds and mammals.

ADVANCES AND CHALLENGES IN INSECT REARING. E.G. King & N.C. Leppla, eds. 1984. USDA ARS. 306 pp. \$8.00. Order from Sup't. Documents, U.S. Gov't. Printing Office, Washington, D.C. 20402.

Methods & materials, problems & solutions, failures & successes of insect rearing as a scientific & commercial endeavor.

ECOLOGY OF AQUATIC INSECTS. V.H. Resh & D.M. Rosenberg, eds. 1984. Praeger Pub. 625 pp. \$35.00

Contemporary overview of aquatic insect ecology and most promising avenues of investigation in aquatic insect ecology.

GUIDE TO OBSERVING INSECT LIVES. D.W. Stokes. 1984. Little Brown & Co. 371 pp. \$8.95 pbk.

A 'popular' guide to inner life of 60 common insects, describing life cycle of each and emphasizing most intriguing behaviors.

INSECT NEUROCHEMISTRY AND NEUROPHYSIOLOGY. A.B. Borkovec & T.J. Kelly, eds. 1984. Plenum Press. 523 pp. \$69.50.

Proceedings of a 1984 international conference on insect neurochemistry and neurophysiology at Univ. of Maryland.

BIOLOGY OF CHRYSOPIDAE. M. Canard, Y. Semeria, & T.R. New, eds. 1984. Dr. W. Junk Pub. 294 pp. \$57.50.

A synthesis of the systematics, biology and current knowledge of the family.

PROCEEDINGS OF 4TH INTERNATIONAL SYMPOSIUM OF TRICHOPTERA. J.C. Morse, ed. 1984. Dr. W. Junk Pub. 486 pp. \$85.00

Proceedings of symposium at Clemson Univ., SC, July 1983.



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