

U. S. Nat. Mus. (Collection Hubbard & Schwarz).

I have seen several hundred specimens, discovered by Mr. H. G. Hubbard in the dry pulp of *Cereus giganteus*. All the specimens came from a single cavity in a decayed trunk, December, 1896.

This singular Scolytid is at once recognizable from the structure of the thorax and the remarkable cephalic armature in the male. Its affinities and systematic position have, however, remained obscure to me, and the elucidation of these points must be left for future studies.* Its food-habits and

mode of development also deviate from those of other Scolytidae. The dry pulp of *Cereus giganteus* in which this species lives is of a very peculiar nature and resembles certain species of hard Agarics more than a piece of wood. This pulp is extremely hard and brittle, and having examined several pieces sent me by Mr. Hubbard I fail to recognize any regularity or system in the borings of the beetle and its larva. Imagos, pupae and larvae are to be found indiscriminately scattered in the irregular chambers and galleries with which the interior of the pulp is honey-combed.

CLASSIFIED LIST OF SPECIES OBSERVED BY H. G. HUBBARD ON THE GIANT CACTUS.

BY E. A. SCHWARZ.

Hymenoptera.

Polistes flavus Cresson.

Coleoptera.

Dactylosternum cacti Lec., *Pelosoma capillosum* Lec., *Megasternum cerei* Sz., *Tyrus elongatus* Brend., *Trimium puncticolle* Lec., *Eumicrus lucanus* Horn, *Maseochara semivelutina* Solsky, *M. spacella* Sharp, *M. puberula* Casey, *Aphelogossa rufipennis* Casey, unknown genus of *Aleocharinae*, *Homalota* sp. sp., *Falagria* sp., *Oligota* n. sp., *Xanthopygus cacti* Horn, *Belonuchus ephippiatus* Say, *Xantholinus dimidiatus* Lec., *Lithocharis tabacina* Casey, *Physeto-*

porus grossulus Lec., *Erchomus convexus* Er., *E. punctipennis* Lec., *Omalium cacti* Sz., *Trichopteryx* sp. sp., *Ditoma gracilis* Sharp, *D. sulcata* Lec., *Bothrideres cactophagi* Sz., *Ephistemus cactophilus* Sz., *Attagenus hornii* Jayne, *Hololepta yucateca* Mars., *H. cacti* Lec., *H. vicina* Lec., *Paromalus opuntiae* Lec., *P. consors* Lec., *P. gilensis* Lec., *Acritus arizonae* Horn, *Holoparamesus pacificus* Lec., *Alindria teres* Melsh., *Lycaina discoidalis* Horn, *Clerid* larva (not bred), *Monilema giganteum* Lec., *Ulosonia marginata* Lec., *Cynaesus angustus* Lec., *Platydemia inquilinum* Linell, *Cactophagus validus* Lec., *Apotrepus densicollis* Casey, *Cossonus hubbardi* Sz., *Cactopinus hubbardi* Sz.

Lepidoptera.

Melitara fernaldialis Hulst. Larva feeding on decaying pulp of the Giant Cactus. Imagos were bred by Hubbard and myself at Catalina Springs, Ar., in April 1898.

*Prof. A. D. Hopkins of Morgantown, W. Va., has consented to make a thorough investigation of this Scolytid. He has just now (February 13, 1899) forwarded to me a series of careful drawings illustrating the structural details of *Cactopinus*, but I am unwilling to anticipate the conclusions derived from his studies. Dr. J. B. Smith has also kindly prepared sketches and microscopic slides illustrating the mouthparts and other details.

Diptera.

Ceratopogon sp., Scatopse sp., Volucella
avida O. S., Neriis flavifrons Big., Drosophila
sp., Limosina sp.

Orthoptera.

Spongophora brunneipennis Serv.

Neuroptera.

Termes flavipes Koll.?

Heteroptera.

Brochymena obscura H. S., Dendrocorus
contaminatus Uhler, Narnia femorata Stal,
Sinea raptoria Stal, Diplodus luridus Stal.

Acari.

Gamasidae (two species obtained from
rotten cactus pulp sent by Hubbard to Wash-
ington).

Pseudoscorpionidae.

Chelifer n. sp., Chelanops sp.

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Schwarz, Eugene Amandus. 1899. "Classified List of Species Observed by H. G. Hubbard on the Giant Cactus." *Psyche* 8, 13–14.

<https://doi.org/10.1155/1899/60914>.

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