

colony remained up to the time when my observations ceased, so it is probable that the *Camponotus* occupied the nest, the beetle normally was with them and the occurrence of the *Formicas* accidental.

Throughout March the cockroach *Ischnoptera* sp. was abundant in most of the nests. It seemed to be tolerated by the ants. All ants are not so indifferent as *Camponotus*, and in the nests of *Formicas*, dead and mutilated specimens are common.

The Californian ant-cricket, *Myrmecophila formicarum* Scudder occurs in practically every nest.

***Camponotus maculatus* sub. sp. *vicinus* Mayr.** Common, though less abundant than *C. maccooki*, nesting under stones. The only guest found was *Myrmecophila formicarum*, which was abundant.

***Camponotus hyatti* Em.** Rare. Two colonies found during the year. One of these, found November 4, 1909, had excavated run-ways in a fallen board. This colony was small, only fifteen major and minor workers being taken. On April 19, Mr. E. J. Newcomer took a series from a nest in a rotten log.

***Formica rufibarbis* var. *occidentalis* Wheeler.** Common, nesting mostly under stones. Associated with it are often found small colonies of the little ant *Leptothorax andrei*. The majority of the nests harbor *Myrmecophila formicarum*.

On February 13, I found with this ant a single specimen of a *Heterius*, different from any of our described species. Another specimen of the same was taken from a different nest on March 5. They were clinging to the undersides of the stones which covered the nests. I have named this species *Heterius wheeleri*, after Dr. William M. Wheeler of Harvard University, in recognition of his work on myrmecophily.

*Heterius californicus* Horn was found locally only with this ant. The beetle seems to be very rare in collections, but can be found by careful search. Between February 27 and March 30, twenty one specimens were taken. They occur generally singly, or two in a nest, though one nest contained five and another three. Their occurrence in the first was interesting, because the nest had been occupied the previous week by a strong colony of *Tapinoma sessile*, and the beetles had either