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NOTES ON THE GUESTS OF SOME CALIFORNIAN ANTS.

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The following notes are based on a small collection of ants and myrmecophiles made in the vicinity of Stanford University during the spring of 1910. The paper does not include many records; but as there are few exact data recorded concerning the hosts of our western myrmecophiles, I have thought that any additional notes will be worth while.

Unless otherwise noted, all of the ant guests are from nests in the low hills about a mile south of the Stanford University campus. The nests of seventeen species of ants were examined during the spring. Fourteen of these species entertained guests or parasites.

I am under obligations to Dr. W. M. Wheeler of Harvard University who has named most of my ants, and to Prof. H. C. Fall of Pasadena, for examining the type of *Hetaerius wheeleri* n. sp. This paper was prepared in the Entomological Laboratory of Stanford University.

Camponotus maccooki Forel. The commonest local *Camponotus*. On March 5th, I found beneath a stone in a small colony of this ant, a single specimen of *Cremastochilus planatus* Lec. The beetle had evidently been ill treated, both hind and one of the middle tarsi being gone. In a much larger colony, on March 9th, two more specimens were taken. Both of these were perfect. Three weeks later I revisited this nest and took three more of the beetles, one of them with a leg mutilated.

The occurrence of specimens from two nests, one of the nests containing specimens during the greater part of the time that *C. planatus* is taken, tends to show that the occurrence of this species with *Camponotus* is not altogether accidental. On the same date (March 30) I took two specimens of the same beetle with *Formica rufa* var. *occidentalis* Wheeler. A week later the same nest contained a flourishing colony of *Camponotus*, which