

face, under a little block of quartzite in one of the gorges amongst the McDonnell Ranges. In this nest the honey ants, though considerably swollen out, seemed to be able to move about slowly. Perhaps it was a young colony and they were not fully developed."

4. *Leptomyrmex varians* Emery var. *rufipes* Emery.

This is the only honey ant known to occur among the Dolichoderinae. The genus *Leptomyrmex*, which is confined to Australia and New Guinea, is characterized by its very slender and emaciated body, extremely long legs and singular head. In 1882 Forel published the following note on *L. rufipes*: "In the excavated nests of this variety Mr. Turner found workers with the gaster considerably dilated by the crop full of transparent honey. The gaster resembled that of *Myrmecocystus*, without, however, attaining such dimensions." In an alcoholic specimen of this ant which I saw in Prof. Forel's collection, the gaster appeared to be much more distended than in the repletes of *Nylanderia* and *Melophorus*.

5. *Plagiolepis trimeni* Forel.

This species was discovered by Mutschinson at Natal and described by Forel in 1895. The types were all repletes, 6.5 mm. in length, of which the head and thorax together measured only 2 mm. They are described as being of a "sordid brownish yellow color, more reddish on the head and thorax; the sides of the gastric segments brownish; feet and antennae yellowish." The gaster "is distended with honey, like a round cyst, transparent, as large as a hemp seed, on which the chitinous laminae of the segments appear as islands. The anterior portion of the first segment has a hollow depression in which fits the petiolar scale. With the aid of a lens it is possible to distinguish, below and behind, the stomach and gizzard with its reflected calyx, both of them displaced and flattened against the gastric wall." Forel further states that the gaster is "nearly as fully distended as that of *Myrmecocystus melliger*. . . . Locomotion must be almost impossible for this insect. Its appearance is that of a *Myrmecocystus* nurse *en miniature*." *P. trimeni* therefore represents a stage of repletion intermediate between *Nylanderia* and *Melophorus* on the one hand and *Myrmecocystus* on the other.

6. *Camponotus inflatus* Lubbock.

Lubbock described the worker of this ant in 1880 from specimens taken