others, such as emarginatus, that exceed the size of the smallest Odontomachus (e. g., minutus, small monticola, brunneus, spissus, simillimus). Certain Anochetus (e. g., faurei, rothschildi, gladiator) also enter the Odontomachus size range at the small end. In size, Champsomyrmex coquereli is in the range of Odontomachus.

- 2) Shape of petiolar node. Although *Odontomachus* species do always have more or less faithful versions of the pointed-conic or uniaculeate node, in some species (e. g., spissus, biolleyi) the point is low and blunt. The *Anochetus* species, on the other hand, show very wide variation in nodal shape. In the Indomalayan princeps group, species approaching the lower size limits of *Odontomachus* have subconical (princeps, risii, rugosus) or even spiniform (gladiator) nodal apices. These nodal forms grade into bluntly rounded ones (levaillanti, orientalis, etc.), and then an anteroposterior flattening of the nodal summit yields species such as emarginatus, mayri, punctaticeps and many others, with chisel-like, emarginate or bidentate apices.
- 3) Antennal fossae. One of the best arguments against this as a valid generic character is the existence of the Malagasy species Champsomyrmex coquereli, which is Odontomachus in size and nodal form, but lacks well-developed, confluent fossae. Emery «neutralized» this embarrassing species by assigning it to a monotypic genus. As if this arrangement were not artificial enough, an even more damaging fact can now be entered into the argument. O. hastatus, the well-known neotropical species, has large workers which, despite their somewhat Stenomyrmex-like habitus, can be classified on all three of the foregoing criteria as bona fide Odontomachus. But in the smaller workers of this species, the antennal fossae are absent or ill-defined, and at least are nonconfluent. Thus, in the formal key character, large workers of hastatus would run to Odontomachus, and small ones to Anochetus. The fossae are not really confluent in most O. panamensis; in O. spissus, they are rudimentary and scarcely form confluent sulci at the midline of the head.

The antennal fossa thus appears to be size-correlated (allometric) through a morphocline of species, but the correlation with size is incomplete and unevenly expressed along this morphocline. In the smaller *Anochetus* species, the approximate position of the missing fossa is often indicated by the posterior edge of a fan of radiating striae on the vertex.

Another character of possible significance is the presence or absence in the male of a downcurved spine on the apex of the pygidium. Some Anochetus lack the spine, some Odontomachus have it, but for the majority of species, the male remains unknown. In A. isolatus, the downcurved spine is well developed; in A. filicornis it is present and acute, but short; in A. madaraszi it is represented merely by a pointed fold at the pygidial posterior midline.

The evidence we have from the larvae (G. C. and J. Wheeler, e. g., 1971: 1212-1214) also offers little encouragement for splitting *Odontomachus* and *Anochetus* on traditional lines.

Now we come to the new diagnostic character. I was led to discover (or rediscover?) this after rereading the remarks of Mayr (1862: 708 ff.), in which he briefly mentioned as a character diagnostic of worker-queen *Odontomachus* the «tiefe