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Type Specimens of Australian Hymenoptera (Insecta) transferred from the Macleay Museum, University of Sydney, to the Australian National Insect Collection, Canberra

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Types of 67 species of Australian Hymenoptera transferred on permanent loan from the Macleay Museum to the Australian National Insect Collection are catalogued. They represent species described by J. Clark, W. C. Crawley, A. P. Dodd, R. Forsius, W. W. Froggatt, A. A. Girault, W. E. Leach and W. J. Macleay.

KEY WORDS: Macleay Museum; types; Hymenoptera; ANIC, Canberra.

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INTRODUCTION

Arrangements for the transfer of insect type material from the Macleay Museum to the Australian National Insect Collection (ANIC) were outlined by Britton and Stanbury (1981). They catalogued the types of Coleoptera previously transferred. Relevant Hemiptera types were listed by Stevens and Carver (1986).

The 136 specimens reviewed below (Table 1) comprise all Australian types of the order Hymenoptera now on permanent loan to the ANIC from the Macleay Museum. It is possible that additional relevant types remain in Sydney unrecognised because of inadequate labels. Also, a large number of non-Australian Hymenoptera housed in the Macleay Museum will undoubtedly include further type specimens.

Sixty-seven specific names (10 of John Clark, 6 of W. C. Crawley, 10 of A. P. Dodd, 1 of R. Forsius, 6 of W. W. Froggatt, 30 of A. A. Girault, 3 of W. E. Leach and 1 of W. J. Macleay) are represented in the list. Additional information on the Girault types and the scelionid types of Dodd is given by Galloway (1976) and Dahms (1983, 1984). Current nomenclature of the ants (Formicidae) is covered by the check-lists of Taylor and Brown (1985) and Taylor (1987).

The listed W. C. Crawley ant specimens might not be types, though their data labels and style of mounting imply that they are members of their original series. None have explicit type labels, but most pins bear a printed tag reading 'type series' and a determination label in Clark's hand. Crawley's material was supplied by Clark, who is known usually to have withheld some specimens from each shipment. They were not studied by Crawley and are not types. The specimens listed here seem likely to be in this category, but they stand as effective nomenclatural vouchers of the relevant species, essentially equivalent to designated secondary types.

A preliminary list of Macleay Museum types by Hahn (1976) includes a number of *nomina nuda*, confusing misspellings and errors. Major corrections to Hahn's list are:

1. The following species names, attributed to A. A. Girault are in fact unpublished: *Parerotolepsia aereifemur*; *Aligherinia chauceri*; *Stomatoceras discofuscus*; *Rhynopeltella eucalypta*;