Revision of *Archaeoteleia* Masner (Hymenoptera: Platygastroidea, Scelionidae)

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**TABLE OF CONTENTS**

ABSTRACT .................................................................................................................. 1
INTRODUCTION ........................................................................................................... 2
MATERIALS .................................................................................................................. 2
ARCHAEOLETEIA MASNER ....................................................................................... 3
Key to Species of Archaeoteleia ................................................................................. 6
SPECS OF NEW ZEALAND ......................................................................................... 8
- *Archaeoteleia chambersi* Early, new species ....................................................... 8
- *Archaeoteleia gilbertae* Early, new species ......................................................... 11
- *Archaeoteleia karere* Early, new species ............................................................. 13
- *Archaeoteleia novaezelandiae* Masner ................................................................. 15
- *Archaeoteleia onamata* Early, new species ....................................................... 18
- *Archaeoteleia waipoua* Early, new species .......................................................... 20
- New Zealand *Archaeoteleia* species incertae sedis ............................................... 22
SPECS OF SOUTH AMERICA ................................................................................. 22
- *Archaeoteleia araucana* Masner .......................................................................... 22
- *Archaeoteleia dispar* Masner, new species ......................................................... 25
- *Archaeoteleia mellea* Masner ............................................................................. 30
- *Archaeoteleia penai* Masner, new species .......................................................... 35
- *Archaeoteleia puncticeps* Masner, new species .................................................. 36
- *Archaeoteleia pygmea* Masner ........................................................................... 38
- *Archaeoteleia robusta* Masner, new species ....................................................... 41
- *Archaeoteleia simulans* Masner, new species ...................................................... 43
- *Archaeoteleia submetallica* Masner, new species ............................................... 45
ACKNOWLEDGMENTS ............................................................................................. 47
REFERENCES ............................................................................................................ 47

**ABSTRACT**

Archaeoteleia spp. (Orthoptera: Rhaphidophoridae, Macropathinae). Both Archaeoteleia and Macropathinae have austral disjunct distributions and are considered to be Gondwanan relicts.

**Key words:** egg parasitoids, Rhaphidophoridae, Macropathinae, Chile

**INTRODUCTION**

The fossil record of the family Scelionidae (Hymenoptera: Platygastroidea) dates back to the mid Cretaceous (Nel & Azar 2005; Johnson *et al.* in press). Very few of the genera, however, have disjunct distributions characteristicly associated with continental drift. The genus *Archaeoteleia* Masner is one prominent exception, exhibiting a transantarctic distribution, being found only in New Zealand and the Valdivian forests of Chile.

In the years since *Archaeoteleia* was originally described by Masner (1968), numerous specimens have been collected, and the species richness of the genus is significantly greater than indicated in the published literature. The goals of this paper are to describe the new species that have been discovered, document new host records, and redescribe the known species.

**MATERIALS**

This work is based upon specimens in the following collections.

- **AEIC** American Entomological Institute, Gainesville, FL, D. Wahl
- **AMNZ** Auckland War Memorial Museum, New Zealand, J.W. Early
- **CNCI** Canadian National Collection of Insects, Ottawa, Canada, A. Bennett
- **LUNZ** Entomological Museum, Lincoln University, Canterbury, New Zealand, J.W.M. Marris
- **NZAC** New Zealand Arthropod Collection, Auckland, New Zealand, T.K. Crosby
- **OSUC** C.A. Triplehorn Insect Collection, Columbus, OH, N.F. Johnson
- **USNM** National Museum of Natural History, Washington, DC, T. Nuhn
- **UCDC** Bohart Museum of Entomology, University of California, Davis, CA, S. Heydon

Morphological terminology follows Masner (1980) and Mikó *et al.* (2007). Abbreviations and terms used in text: A1, A2, ... A12: antennomere 1, 2, ... 12; claval formula: distribution of the large, multiporous basiconic sensilla on the underside of apical antennomeres of the female, with the segment interval specified followed by the number of sensilla per segment (Bin 1981); epomial corners: the junction of the transverse pronotal carina, pronotal humeral carina, and vertical epomial carina (Fig. 19, ec); IOS: interocular space, shortest distance between the inner margins of the eyes; LOL: lateral ocellar line, shortest distance between inner margins of anterior and lateral ocelli (Masner & Huggert 1989); OOL: ocular ocellar line, shortest distance from inner orbit and outer margin of lateral ocellus (Masner & Huggert 1989); POL: posterior ocellar line, shortest distance between inner margins of lateral ocelli (Masner & Huggert 1989); pronotal humeral carina: the horizontal portion of epomium on the pronotum (Fig. 18: phc); S1, S2, ... S6: metasomatic sternum 1, 2, ... 6; T1, T2, ... T7: metasomatic tergum 1, 2, ... 7.

Figures were made using AutoMontage software. Under the Material Examined sections, passages that are placed between square brackets are comments or interpretations of label data. Two-letter area codes for New Zealand specimen localities follow Crosby *et al.* (1976).

Authorship of the new Chilean species is attributed to L. Masner, the New Zealand species to J.W. Early. The links labelled “Link to Distribution Map” are to dynamically produced maps of specimen data at The Ohio State University. The map will include specimen data added after publication of this revision.