**Describing a group of Chilean bees, *Chilicola* (*Heteroediscelis*)**

**S.K. Monckton** (York University)

*Chilicola* (*Heteroediscelis*) Toro & Moldenke, 1979 is a diverse subgenus of colletid bees endemic to Chile. It includes ten described species and six more in the process of being described. As part of this work, I have conducted five months of field work in Chile, sampling diverse habitats, and collecting tens of thousands of specimens. Using this material, I have conducted a taxonomic revision and phylogenetic analysis of *Heteroediscelis*, using a combination of morphological and molecular (COI) data. The results of this work include a robust phylogeny (a first for this subgenus), a user friendly key incorporating clear photographs, and a series of revised descriptions for all species. I will discuss the process of taxonomic research as it led me to complete this work, and the potential for incorporating the results into a broader phylogenetic context, all in the context of Chile’s great range of habitats and its diversity of endemic bee fauna.