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**RECORDS OF AMPULICIDAE IN MICHIGAN
(HYMENOPTERA: SPHECOIDEA)**Mark F. O'Brien¹

ABSTRACT

Two species of Ampulicidae, *Dolichurus greenei* and *Ampulex canaliculata*, are reported from Michigan for the first time.

To date, there have been no published records of Ampulicidae from Michigan. The following records are new for the state and extend the known ranges considerably. Specimens are deposited in the University of Michigan Museum of Zoology (UMMZ), Michigan State University Collection (MSU), and the collection of D. P. Cowan (DPC).

Dolichurus greenei Rohwer: MICHIGAN: Kalamazoo Co., T2S, R12W, Sec. 7, 19 July–3 August, D. P. Cowan (all males), (UMMZ); St. Joseph Co., Klinger Lake, 30 July 1983, Malaise Trap, D. C. L. Gosling (26 males, 4 females) (UMMZ).

The above specimens were all collected from Malaise traps. The Klinger Lake specimens were collected at the edge of an oak-pine forest bordering a sandy lane. There are no prey records from Michigan, but this widely distributed eastern species nests under leaf litter in woods and preys upon nymphs of *Parcoblatta* spp. (Krombein 1955).

Ampulex canaliculata Say: MICHIGAN: Kalamazoo Co., T2S, R12W, Sec. 7 & 25 August 1980, D. P. Cowan (UMMZ); Midland Co., 14 August 1942, R. R. Dreisbach (MSU); Marquette Co., Huron Mountain Club, Breakfast Roll Mtn., T52N, R28W, Sec. 35, 9 July 1985, D. C. L. Gosling (UMMZ); Washtenaw Co., Superior Twp., 2 Sept. 1975, and 11 August 1976, D. P. Cowan (DPC).

The Marquette County record for *A. canaliculata* is the northernmost record for this species. The Huron Mountains support populations of *Parcoblatta pennsylvanica* (De Geer), which are especially common under loose bark and rocks on the south-facing exposed rock outcrops, the type of situation where the *A. canaliculata* specimen was captured.

Ampulex canaliculata is rather widely distributed in the eastern United States (Krombein 1979) and nests in cavities in twigs, under loose bark, and borings in wood (Krombein 1979). Williams (1919) gave a detailed account of its nesting behavior, and Krombein (1967) has studied this species in trap nests. *Parcoblatta virginica* (Bruner), *Parcoblatta* sp., and *Ischnoptera* sp. have been previously recorded as prey (Krombein 1979).

Due to the rather cryptic behavior of ampulicids, it is not surprising that they have been rarely collected in the state. They appear to be locally common, however, as evidenced by the numbers of *D. greenei* captured in a Malaise trap in St. Joseph County. Undoubtedly, further Malaise trapping in suitable habitats will turn up other specimens in the future.

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