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A new species of genus *Heriades* SPINOLA from India (Insecta, Hymenoptera, Apoidea, Megachilidae)

With 1 Plate

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Abstract. The genus *Heriades* SPINOLA from India was represented by two species, namely *Heriades parvula* and *H. aureocincta* both of BINGHAM. A new species *Heriades binghami* has been described for the first time from Pathankot, Himachal Pradesh (India). This species has some close affinities with *H. parvula*.

Prior to this work, genus *Heriades* SPINOLA from India was described with two species, namely: *H. parvula* BINGHAM and *H. aureocincta* BINGHAM (1897). Genus *Heriades* can be distinctly separated from the allied megachiline genera, with the help of following combination of characters:

Body small, clypeus transversely convex, apical margin entire or finely tubercled; mandible tridentate in female, without any bevelled cutting edges and bidentate in male; axillae may be rounded or produced posteriorly; scutellum distinctly transversely carinate; posterior face of propodeum perpendicular; fifth tarsal segment with a well developed pulvellus and first tergum with a strongly developed carinate margin.

Heriades binghami sp. n.

Female

Integument black-shining, punctures coarse and sparsely distributed; pubescence silky transparent, on legs pale and scopa white (medially pale).

Median length of head is greater than width; eye carina distinct and widely separated; median line below the mid-ocellus absent; apical margin of clypeus incurved and non-tuberculate; occipital margin at vertex incarinate and invaginated; genae narrowed below as well above; mandible tridentate, interspace inbetween 2nd & 3rd tooth wide.

Scutum swollen anteriorly; metanotal surface sulcate; fore wing clear hyaline and both recurrent veins well within the base and apex of second cubital cell; claws pale; tergal margins with white apical fasceae, upto 2nd; tergum 4th & 5th strongly downcurved; sternites without any apical fasceae; apex of last sternum broadly rounded and with white hairs on its surface.

Measurements (in mm) Total length 4.0; eye: length 0.9, lateral width 0.4; clypeus: median length 0.3, basal and apical width 0.32 & 0.7 antennae: length of scape 0.25, pedicel 0.1, flagellar segment 1st 0.12, Xth 0.12; labrum: median length 0.4, basal and apical width 0.25 & 0.15; mandible: length of inner, lower and dentate margin 0.3, 0.52 & 0.22; labial palpi: length of segment 1st 0.2 & IInd 0.35; scutum: median length 0.75, maximum width 1.0; fore wing: total length 2.6 and relative widths of terga 1st to VIth: 0.82, 1.25, 1.25, 0.92, 0.8, 0.5.

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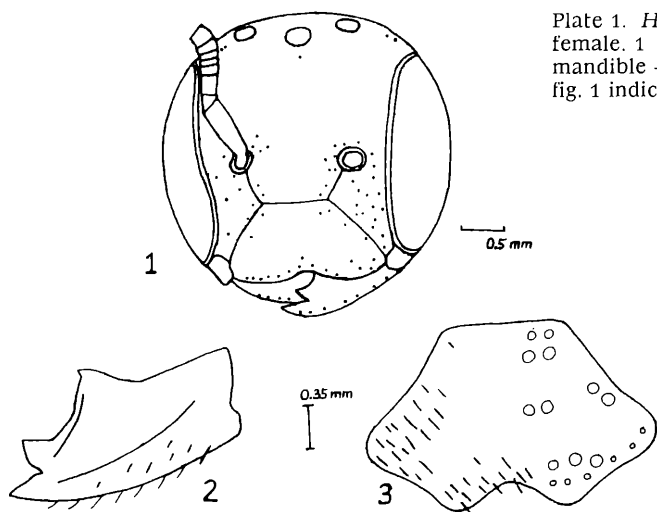


Plate 1. *Heriades binghami* sp. n., female. 1 Head, front view — 2: mandible — 3: clypeus. (Dots on fig. 1 indicate pubescence)

Male Not known.

Material examined Holotype ♀, Simla Hill, Pathankot (H. P.), 400' m. s.l., 3. V 1982, Coll. Rajiv K. Gupta; Paratype ♀, same data as for holotype (Division of Entomology, I. A. R. I., New Delhi).

Flower record *Caesulia* sp., *Salix* sp.

Etymology This species is named after Col. C. T. BINGHAM.

Remarks The new species described above has been found related to *H. parvula* BINGHAM (placed under subgenus *Michenerella* KROMBEIN, 1950), however, *parvula* distinctly differ from *binghami* in its flat clypeal surface, clypeal margin not incurved but transverse; interspace inbetween 2nd and 3rd tooth much wider; tergal fasciae complete and prominent with all tergites; body size large (6–7 mm).

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References

- BINGHAM, C. T., 1897 Hymenoptera, Vol. I, Wasps and bees. In: W. T. BLANDFORD, The Fauna of British India. (Taylor & Francis) London CCIC: 410–579.
KROMBEIN, K. V., 1950: The aculeate hymenoptera of Micronesia II. — Proc. Hawaii, Entomol. Soc. 14: 101–142.

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