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view not emarginate at apex; its posterior face usually margined dorsally and laterally. Postpetiole 1.8-2.2 times as broad as petiolar node.

Clypeus smooth and shining with several rugulae, or very weakly rugose and weakly shining; remainder of head reticulate; alitrunk largely reticulate, but area between promesonotal spines smooth and shining; lateral faces of petiole and postpetiole weakly punctured; dorsa of petiole and postpetiole, and gaster smooth and shining. Body sparsely bearing standing hairs. Body brown, reddish-brown or dark brown; antennae and legs a little lighter than alitrunk.

Recognition P. quadrensis is closely related to P. lokitae Forel, P. quadricuspis Emery, P. sperata Forel, P. acantha sp. nov. and P. spinicornis sp. nov., and several undescribed species, and they are recognisable among Indo-Chinese and Indo-Malayan congeners by a combination of the characteristics noted under P. lokitae. They are, according to Emery (1921), related to Austro-Malayan "P. quadrispinosa Fr. Smith group" and "P. cervicornis Emery group". P. quadrensis is well distinguished form the Bornean relatives by the characters given in the key.

**Distribution** Borneo and Sumatra.

**Bionomics** This species inhabits well-developed forests in lowlands. It nests in rotting twigs and wood blocks on the forest floor, and stores up a number of tiny seeds in its nest (Eg97-BOR-471, 535). I have never encountered colonies which include more than one dealate queen.

## 38. Pheidole quadricuspis Emery (Figs. 39, 61)

Pheidole quadricuspis Emery, 1900: 683, major and minor (MCSN). Type locality: Sumatra. Three syntypes (1 major and 2 minors) were examined.

P. (Pheidolacanthinus) quadricuspis: Emery, 1921: 83.

Pheidole quadricuspis: Bolton, 1995b: 328.

Specimens examined BORNEO. Sabah, Malaysia: Deramakot Forest Reserve, 1 minor, CB, 1998-1999; Gunong Rara, 28 majors, 49 minors and 3 queens (Eg96-BOR-315, 319, 320, 343A, 343B, 353, 370, 372; Eg97-BOR-530, 557, 558); Poring, 800 m alt. (East Ridge), 1 minor (code BW-1), CB, 1995; Sepilok forest, 1 major and 1 minor (Eg97-BOR-495). Brunei: Belalong Forest Section, 2 majors, 5 minors and 1 queen (Eg99-BOR-222); Merimbun Heritage Park, 13 majors, 18 minors, 7 queens and 24 males (Eg99-BOR-039, 111, 112, 522, 585). E. Kalimantan, Indonesia: Kutai N. P., 3 majors and 3 minors (GC), SKY, 1993. MALAY PENINSULA. Malaysia: Ulu Gombak, 11 majors, 27 minors and 2 queens (FI96-604, 605; FI98-113, 114, 130, 188, 197). SUMATRA, Indonesia: Lubuk Gadang, W. Sumatra, 2 majors and 11 minors, SNS.

Major Measurements and indices (n=10): TL 4.1-5.1 mm, HL 1.83-2.07 mm, HW 1.90-2.28 mm, SL 0.99-1.08 mm, FL 1.32-1.47 mm, CI 103-110, SI 47-53, FI 71-64. Head broadest at about 2/3 distance of head (as measured from the mid-point of a transverse line spanning the anteriormost and posteriormost projecting points, respectively (cf. Fig. 2A)); posterior margin of head in full-face view almost flat, but slightly emarginate medially (Fig. 39A); head in profile not impressed on vertex (Fig. 39B). Hypostoma with a pair of stout median processes. Clypeus with a median longitudinal carina, with anterior margin in full-face view emarginate medially. Eye situated at about 1/3 distance of head; distance between mandibular insertion and anterior margin of eye 1.7-2.0 times as long as maximal diameter of eye. Frontal carina inconspicuous, extending backward to about midlength of head. Antennal scrobe present only around antennal insertion. Antenna with 3-segmented club; scape extending backward to about 2/3-3/4 distance of head; terminal segment 0.9-1.0 times as long as preceding two segments together. Masticatory margin of mandible with apical and preapical teeth, and