

## NEW ENCYRTIDAE FROM AUSTRALIA—II

(Hymenoptera)

By A. A. GIRAULT

The following are abridged descriptions. All from Queensland unless otherwise stated.

### **Austroencyrtus**, new genus (Encyrtini).

Runs to *Neocopidosoma* but as *Pseudencyrtella* otherwise, scape from above clypeus, flagellar joints elongate. Marginal twice longer than wide, half the curved stigmal, latter a bit shorter than postmarginal; head nearly as wide as long, jaw-teeth unequal, 1 strong, 2 weaker but as long, 3 shorter, obtuse; 3 of maxillary palpus shortest, 4 elongate, subacuminate, 1 long. Ovipositor three-fourths surface. Club solid.

### **Austroencyrtus annulicornis**, new species.

Robust, dark aeneus, fore wing slightly smoky to apex from about bend of submarginal, veins brownish. Funicles 5-6 white, basal two-thirds of scape, ovipositor valves save apex more or less widely, tarsi, tibiae, knees, rich reddish brown. Sculpture fine, small pin-punctures occasionally. Pedicel not half funicle 1 which is longest, a quarter longer than 6 which

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<sup>1</sup> Female not known: probably very similar to *militaris*.

equals club, latter about four-and-a-half times longer than wide. About seven lines cilia proximad hairless line.

Kuranda (types) and Nelson.

**Anagyropsis richteri**, new species.

Purple, abdomen green, legs except coxae and the femur and tibia 1 (except apex of latter) and antennae save scape and pedicel (except apex of latter), reddish yellow. Wings clear, a bit clouded along each side of stigmal, venation reddish. Marginal half longer than wide, stigmal very long and slender, a bit curved, postmarginal not quite half of stigmal, exceeding marginal. Funicle 1 small, quadrate, 2-3 each a bit longer than wide, longest, somewhat shorter than the short pedicel, 6 largest, a bit wider than long. Scape greatly dilated. Ovipositor nearly half the depressed abdomen.

Ipswich, forest.

**Epitetrалophidea bicinctipes emersoni**, new subspecies.

Like typical form but cinctus of femur 2 twice longer, over twice the white distal of it, subequal to white proximad of it.

Lota, grass, March, 1921.

**Mesastymachus**, new genus.

As *Neastymachus* but like *Aphycus* except marginal twice longer than wide, a bit shorter than either stigmal or postmarginal. Scape a bit compressed. Frons moderately wide, prominent.

**Mesastymachus silvae**, new species.

Golden, abdomen darker, the large wings clear, veins yellow. Club large, ovate, not quite equal funicle, joints of latter small, 1-2 subglobular, 3-4 half wider than long, 6 longest, nearly twice wider than long. Tooth 3 of jaws shorter and more obtuse than the small, acute 1-2. Pedicel somewhat longer than wide, hispid above. Hairless line open, about 10 lines proximad of it. Ovipositor shortly extruded, free. Submarginal bristles moderate.

Nelson.

**Pseudectroma obscura**, new species.

As *auricorpus* but dusky yellow, ovipositor half abdomen, paler toward base, frons over thrice the narrower eyes, ocelli in a straight line, cheeks nearly thrice the eye-length. Abdominal markings obscure.

Nelson. Types compared.

**Neasteropacus obscurus**, new species.

As *cinctipes* but funicle concolorous, 5-6 lines distinct discal cilia proximad hairless line, ocelli nearly in isosceles triangle.

Nelson. Types compared.

**Neasteropacus varicornis**, new species.

As *obscurus* but fore wing lightly clouded throughout, funicle 6 white, stigmal knob enlarged comparatively and tibia 2 concolorous except apex latter widely.

Wynnum, September 11, 1921, forest. Types compared.

**Australaphycus**, new genus.

From *Aphycus* in having flagellum cylindrical, all joints longer than wide, scape long, obclavate, compressed; head weak, inflexed, face sunken, frons rather narrow, ocelli nearly in equilateral triangle. Ovipositor free, extruded nearly length of abdomen. Postmarginal nearly half the stigmal. Jaw-teeth short, 1-2 acute.

**Australaphycus albivoiductus**, new species.

Gold, wing subhyaline and densely ciliated, following black: Pronotum except laterad, scutum except lateral margin rather widely, scutellum except apex narrowly, axillae mesad, dorsal abdomen except lateral margin narrowly. Hind femur at base, club, pedicel above from base, dusky. Ovipositor valves snow-white. Hairless line narrowly closed caudad, proximad of it, cilia running nearly to base. Flagellum dusky, funicles 1-3 equal, over twice longer than wide, equal pedicel, 4-6 each a bit longer. Club half the funicle, 1-nearly half the region. Finely scaly.

Brisbane, November, 1916 (Hacker).

**Blattacidella**, new genus.

As *Epiblatticida* but jaw-teeth 1 and 2 equal, strong, longer, acute, 3 not quite so wide as in named genus, shortest; scape's exfoliation only central, smaller; funicles wider. Marginal somewhat longer than wide, equal postmarginal, latter nearly two-thirds stigmal. Ovipositor not extruded. Scrobes deep, not long, complete.

**Blaticidella aereitibiae**, new species.

Aeneus, wings clear, knees, tibial tips, tarsi yellow, veins dark; frons pin-punctate, dorsal thorax with rather sparse yellow pubescence. Hind wings finely ciliate, very wide. Submarginal bristles stouter. Otherwise about as in genotype of named genus.

Nelson. Types compared.

**Arhopoideus tertius**, new species.

As *brevicornis* but funicle 2 distinctly shortest, a bit longer than wide, 3 equal 4, twice longer than wide, stigmal curved, postmarginal half it.

Wynnum, in grass, September 21, 1921.

**Perissopterus cowperi**, new species.

As *ciliatus* Dodd but abdomen with four distinct cross-stripes from base, marginal spot in place of a fifth, fringes twice longer (one-fifth wing width), wing pattern slightly different.

Tingalpa, forest, June.

**Perissopterus emersoni**, new species.

As *cowperi* but a sixth cross-stripe on abdomen beyond the indicated fifth indicated by transverse marginal spots; a patch of discal cilia at base, three longitudinal lines deep from venation; fringes one-tenth wing width; 12-13 setae upon marginal vein; a narrow dusky line on each side meson of thorax. Lateral margin propodeum black.

Sweeping flowering *Leptospermum*, Wynnum, September 23, 1921.

**Mesorhopella**, new genus.

As *Pararhopella* but antennae with club elongate, cylindrical, joints much longer than wide; marginal punctiform, stigmal and postmarginal long, equal. Frons wide, head rather weak. Jaw 2 widely truncate but a bit concaved.

**Mesorhopella emersoni**, new species.

Grass green, wings clear, veins dark, coxae, femur 3 save apex, tibia 3 except base and apex (latter more widely), concolorous; rest of legs and scape yellowish white. Club 1 four times longer than wide, not shortening in succession. Funicles 1 and 2 equal, a bit wider than long, 3 a bit longer than wide, 4 and 5 equal, nearly twice longer than wide. Hairless line closed caudad of middle, proximad to cilia occurring well toward base. Minute.

Wynnum, forest, September 20, 1921.

**Pararhopella**, new genus.

Genotype: *Metalonnella longfellowi* Gir. Jaw teeth acute.

**Parahopella maculatipes**, new species.

Legs and antennae dark, ovipositor extruded one-third abdomen, stigmal shorter. Grass green, wings clear, base of scape narrowly, pedicel beneath and legs (except coxa 3), side femur 1 save above at apex, basal half tibia 1 above, tibia 2 just below knee, femur 3 save at apex and two cincti on tibia 3, white. Funicles 1-3 equal, half wider than long, 4-5 equal, twice larger but similar in shape. Jaw 2 a bit longest. Marginal equal postmarginal. Hairless line closed caudad by three lines of cilia, proximad of it, six lines of cilia. Submarginal setae moderate.

Wynnum, forest, June 8, 1921.

**Ooencyrtus auricaput**, new species.

Grass green, scutum and scutellum with short silvery pubescence; head golden, vertex orange, legs except hind legs (except tibial tips, tarsi) whitish, scape pale yellow, rest of an-

tenna dusky. Fore wing with a large smoky cloud from marginal and stigmal, halfway across. Funicles, except the longer 6, equal, half wider than long, the large club equal funicle. Scape slender, pedicel barely longer than wide. Abdomen one-fourth longer than wide, ovipositor not extruded. Hairless line guarded proximad by four and half quarter-lines of distinct cilia and many abruptly fainter lines of minute cilia.

Wynnum, forest, September 22, 1921.

**Ooencyrtus magnithorax**, new species.

As *metallicus* but wings clear, coxae, femora 1 and 3, tibia 3 save apex, concolorous; funicles 1-4 equal, about twice wider than long, 5-6 nearly twice longer, a third wider than long, club exceeding funicle. Flagellum concolorous, tibia 2 dark centrally. Ovipositor somewhat extruded. Jaw teeth acute, equal.

Nelson, with type of *Casca nigra*.

**Encyrtoidea**, new genus.

As *Zoencyrtus* but marginal twice longer than wide, stigmal very long and slender, with a knob, about twice the marginal, somewhat shorter than postmarginal. Flagellum capitate, club somewhat over half the funicle. Scape's dilation moderate. Jaw teeth rather large, subacute, 1 a bit shorter in the one, in other 3 but a truncation from base of 2 which slightly exceeds 1. Frons moderate, subprominent.

**Encyrtoidea punctatifrons**, new species.

Aeneus, scutellum grass green, tibial tips, tarsi white, tips tibiae 2 widely and tarsi 2, reddish yellow, the fore wings distad of venation, lightly smoky, midlongitudinally further proximad; funicles 5-6 whitish yellow. Pedicel distinctly exceeding any funicle, 1 of the latter longest, equal 2, each a bit longer than wide, 3-4 quadrate, 6 a bit wider than long. Frons with rather thick, small but distinct punctures, rest faintly reticulated.

Wynnum, forest, September 20, 1921.

**Habrolepopterygis permirus**, new species.

As *mirabilis* but both jaws 3-dentate, 3 truncate but not very wide; "V" of setae proximad of hairless line as in *felix*, that is, full interiorly; mesal bristle of 4 of maxillary palpus on the lower apex of the obliquely truncated apex (halfway down the side in *mirabilis*, the apex not oblique).

From *Ceroplastes ceriferus*, Brisbane, "20-1-19," H. Jarvis, through Dept. Apriculture and Stock.

The third Australian species, all markedly alike in color and wing pattern, but differing in mandibular structure.

**Microencyrtus**, new genus.

Runs to *Zaomencyrtus* but jaws with 1 and 2 small, acute, 3 widely truncate. Minute. Marginal twice longer than wide, thickened somewhat, stigmal and postmarginal equal, a bit shorter. Ovipositor not free, valves extruded half abdomen. Club ovate, nearly as long as the funicle.

**Microencyrtus minutissimus**, new species.

Dark green, wings clear, with a small cloud against marginal; base and tips of tibiae (tips widely in 3), leg 2 except coxae, all tarsi, yellow, also funicle and club. Funicles 2-3 two-and-a-half times wider than long, 1 a half wider than long, rest larger, 6 nearly twice wider than long, longest; pedicel equal 5 and 6 united. Scape thick, cylindrical. Hairless line open caudad, four lines of fine cilia proximad of it, several lines to base or nearly along submarginal.

Wynnum, forest.

**Erycidnus stigmatifera**, form **hemiptera**, new.

Marginal comparatively short and thick, far from apex, stigmal distinct, one-third marginal, postmarginal acute, one-fourth shorter than stigmal. Hairless line present. Submarginal setae long, slender, those of marginal short. Fore wing nearly entirely clouded. Hind wing linear. Club, funicle 6 white, rest black, legs reddish yellow. Frons narrow.

Wynnum, forest. Types compared.

**Conchynilla fuscipennis**, new species.

As genotype but wing plainly infuscated from base of submarginal to apex, the infuscation streaked with subhyaline in the form of a "T" distad of venation, a wide middle path to apex and an equally wide cross-stripe at apex of venation; funicles 1-3 somewhat longer than wide, rest quadrate; club two-thirds funicle and wider. Postmarginal half stigmal.

Lota, forest, March.

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