

New Pests from Australia, X.

By A. A. GIRAULT

All Chalcididae except where noted

Mesanusia speciosa. Black, wings clear, legs pallid; head, scape, dorsal thorax except propodeum, propleurum, golden. Funicles quadrate, shorter than pedicel. Scape's dilation linear. Small. Forest, Indooroopilly, Dec. 20, 1931.

Liothorax longiartus. From *glabriscutellum*: All green nearly, wing with cross-band, veins dark, pstmg. shorter than stigmal, abdomen not compressed, jaws more narrow, scape $\frac{1}{2}$ longer, exceeding club. Cheeks with no large bristles. F. E. Wilson, Belgrave, V. **L. glabriscutellum.** Purple; legs, palpi, scape pale; scaly. Funicles $2\frac{1}{2}$ longer than wide, exceeding pedicel. Abdomen compressed, ovipositor a bit extruded. Marginal sublinear, pstmg. nearly as long, stigmal somewhat shorter. Scutellum glabrous. Nelson, A. P. Dodd.

Aenasomyiella parkeri. From genotype: Club, cephalic margins scutum and axillae, apex of scutellum, phragma, propodeum, distal $\frac{2}{3}$ disk abdomen, blotches hind tibia, black. Scape yellow. Frons a bit wider, jaw teeth more obtuse. Indooroopilly, forest, Dec. 3, 1931. To an heroic seaman, 1797.

CYNIPIDAE.

Cleidotoma carlylei. Black, legs, tegulae red to dusky. Scutellum striate, propodeum bicarinate; funicles 4-8 globular, No. 1 thrice longer than wide. Fringe not very short. Fork 1st radial nearly at costa, 2nd radial longer, running shortly along costa. Wynnum, forest. **C. melancholica.** From *carlylei*: Jet; funicles 2-6 twice longer than wide, 7 longer, 8 nearly as long as 1; scutellum glabrous; radial 2 halting at costa. Canterbury, Vic., B. Blackburn.

Coccidoxenus rubensi. Aeneus legs save coxae, basal $\frac{1}{2}$, ventral edge, scape, pale. Funicles small, shorter than pedicel. Three lines cilia proximad hairless line. Bakerville, forest, March 15, 1919.

ERRORS.

Tetracnemus pretiosus Timb. is *Arhopoideus brevicornis*, Gir. *Encyrtus barbatus* T. is *E. auranti fasciatus* Gir. Tillyard's The Insects of Australia and New Zealand, 1926. N.A. Hymenoptera Elasmidae, 1918, *daedalus* omitted. *Epromphaloides* in Notice of a Curious Prof. etc., 1928 is *Epomphaloides*.

SCHILLERIA.

From *Ectroma*: Palpi 2-, 3- jointed, head longer than wide, eyes very long, scutellum simple. **S. pulchra.** Green, wings hyaline. Coxae 1, 3, club, distal $\frac{1}{2}$ scape except apex, basal $\frac{1}{2}$, femur 2, silvery, tarsi pale, so distal $\frac{1}{2}$ tibiae. Funicle 1 shorter than pedicel. Indooroopilly, forest, January 10, 1932.

Ablerus sidneyi. From *bicinctipes*: Tibiae 1, 3, aeneus save ends, femur 2, white at mid-sides; tibia 2 with cinctus near knee. Band of wing to base stigmal knob from middle submarginal vein. Sydney, III., S. E. Flanders.

Abl. bicinctipes. Femur 3 aeneus, 2 so beneath basal $\frac{1}{2}$, 1 beneath; tibia 3 with 2 cincti; wing band narrow, from stigmal knob; tibia 2 with a cinctus near knee. Fringes $\frac{1}{4}$ widest, 23 lines cilia, 4 coarser lines proximad hairless line. Outer bristles marginal vein 3. Head ivory upper $\frac{1}{2}$ face, vertex, a crescent below antennae. Pedicel shorter than funicle 4, 3 wider than long.

Abl. beenleighi. Legs save coxae, parapside mesad, scape ventrad, upper face, band across at eye ends, vertex, mouth, funicles 2, 4, white; dot on tibiae 2-3 near knee. Green, narrow band from middle stigmal knob; 5-6 lines coarser cilia against marginal vein. Fringe $\frac{1}{5}$ widest. Funicle exceeding pedicel. Forest, Beenleigh. **Abl. argentiscapus.** From *beenleighi*: Face white save green line across beneath eyes; fore coxae, scape pale.

Abl. arboris. From *venustulus*: Tibiae pale save basal $\frac{1}{4}$, ovipositor white at apex, so narrow sclerite behind scutellum and the parapside; first tarsal not black. Head in both green save vertex.

Abl. romae. From *bicinctipes*: Femur 1 unmarked, 2 so only disto-ventrad, tibiae 1-2 with cinctus near knee, 3 green basal $\frac{1}{2}$; femur 3 with wide subcentral band. Roma.

Coccophagus vegai. From *antiopa*: Fringes half widest, clubs exceeding funicles, latter $\frac{2}{3}$ longer than wide; mesopleurum, parapside cephalad, cephalic $\frac{2}{3}$ scutum, black. Wing 2 3 lines cilia. Watsonville, forest.

Helegonatopus parkeri. From *pseudophanes*: Band on wing distal venation; 4 lines cilia proximad hairless line, venation darker; infuscation of wing continued lightly to apex. Forest, Indooroopilly, March. To an heroic and martyred seaman, 1797.

Beethovenia longifasciata. Orange, wings clear; legs except 2 dorsal blotches on tibiae 2-3, dorsal tibiae 1, femur 1 at middle side below, scape beneath, pale. Antennae, abdomen, pronotum, dorsal thorax behind scutum save scutellum, dusky. A yellow stripe along whole side of body. Club equal funicle, 5 of latter largest, over twice wider than long. Wynnum, forest grass, May 25, 1921.

Cheiloneurus dumasi. Purple, the face, lateral axilla orange. Coxae, funicles 5-6, basal $\frac{1}{2}$ femur 2, distal $\frac{1}{2}$ tibia 2, white. Scape compressed only, frons narrow, funicles wider than long. Tarsi pale. Distal ciliation wing 1 uniformly coloured. Kingston, forest, Nov., 1922.

Epomphaloides indigenus. From *teiae*: Black, head below antennae, basal $\frac{1}{3}$ abdomen, legs yellow; funicles longer; apical setae max. palpi closer together, short, intermediate longer, latter extending far beyond apex. Jungle, Amamoor, 24 July, 1924.

Epanusia laticincta. Blue, wing with hyaline band. Tarsus 2, spur, tibia 2 at base widely, pale. Flagellum subcylindrical, funicle 1 bit shorter than pedicel, equal clubs. Pstrng. shorter than stg. As *bifasciata* else. Blundells F.C.T., 7 Jany., 1930. A. Tonnoir.

Dinocarsis rotundiceps. Blue, wing light brown from distal $\frac{1}{3}$ submarginal. Spur, funicles 5-6 white. Head, mesopleurum partly orange. Funicle 1 twice length pedicel. Scape with linear exfoliation.

Baoanusia albifunicle. From *lotae*: Funicle white; scape long-hemispherical; legs concolorous; wing with half-band from marginal, stigmal veins. Forest, Indooroopilly, 20 April, 1930.

Cristatithorax partipes. From *beerwahi*: Scape, funicles 5-6 pale, cephalic-apical margins wing 1 hyaline, cilia colourless. Wallumbilla. **C. bidentimaxillae poeta.** From typical form: legs aeneus save tarsi, tips tibiae (widely in 2), basal $\frac{1}{3}$ femur 2; head orange, scape aeneus. Brisbane, wattle flowers, Sept., 1915, H. Hacker. **C. regis.** From *quadricolor*: legs pale save narrow cinctus above and below knee 2; abdomen, ventral edge scape, flagellum save funicles 5-6, pedicel save above, purple.

Polynema blackbourni. From *helena*: Distal margin band 2 with 2 scoops and a middle arm nearly to apex. Canterbury, Vic., B. Blackbourn.

BEETHOVENA (Mirini).

From *Pseudaphycus*: Ovipositor free, palpi 2-, 3-jointed, first jaw tooth the shorter, 2-3 equal, 2 obtuse, 3 acute. Species above.

CYNIPIDAE.

Gronotoma domestica. Black; antennals 1-4 knees widely, tibiae red-brown. Scape exceeding pedicel, latter a bit longer than wide; funicle 1 narrowest, equal scape, twice longer than wide, 2-3 a bit wider, shorter, rest, wider, nearly half longer than wide, joint 13 as long as funicle 1. Furrows a V; wide, opaque channel between median carinae of propodeum, distad carinae narrowed into a neck. Hind wings 11 lines of cilia. Indooroopilly, window, Jany., 1930.

Male: Antennae filiform, 15-jointed, red-brown, 3 lengthened, following twice longer than wide, 2 globular. Bowen, 16 Jany., 1931, D. O. Atherton.

Sarothrus io. Black, legs, antennals 3-4 yellow. Scape exceeding pedicel, latter half longer than wide, rest slender, shortening, 3-4 over 4 times longer than wide, club longer, equal 3. Face below antennae pilose, head glabrous save also cheeks.

Scutellum peltate-triangular, convex, apical $\frac{1}{2}$ hairy, simple. Propodeum hairy, apparently simple. Segment 2 a bit shorter than 3, together nearly half surface. Radial cell nearly twice longer than widest. Montville, F. G. Holdaway.

EUCHARITIDAE.

KAPATELLA.

From *Neokapala*: Antennae 11-jointed, no ring-, one club-joint. **K. transstriata.** From *N. furcatella*: Coxae concolorous, scutum-parapside striate, so axillae-scutellum but longitudinally; antennae brown 11 equal 3 but wider, 4 a bit shorter, a bit produced, rest to 11 more produced, shorter, equal. Nelson, A. P. Dodd.

Thoracantha guttivpennis. From *emersoni*: Wing infuscated as in *N. furcatella*; first antennal branch only $\frac{1}{2}$ length of 2, often absent, legs save coxae yellow. Male. Nelson, A. P. Dodd.

Orasema gemma. From *palgravei*: Funicle 2 only $\frac{1}{2}$ longer than wide, exceeding 3, Y-shaped median groove of propodeum, cephalic clypeal suture absent. Kuranda, F. P. Dodd.

Paracladella giorgionei. From *globosa*: Scape red; a wide, deep cross-band from marginal and stg. veins; leg 1, femur 2, red, legs aeneus. Forest, Riverview, Apr. 4, 1924.

Achrysopophagus aureipleurum. From *clavatus*: Distal wing 1 sans hyaline cross-band; of legs, femora distad above black, so ventral margin scape, the pedicel. Abdomen, dorsal thorax save axillae, purple. Small. Indooroopilly, forest, Jan. 25, 1932.

Aphycus bowensis. Silvery, scape greatly dilated; orange—Scutum, scutellum, axillae;—black—Abdomen save lateral margins base to spiracle, head, scape save apex, basal $\frac{2}{3}$ pedicel, metaventer, funicles 1-5, club 1, propodeum between spiracles, distal $\frac{1}{2}$ scutellum, axillae, two spots below knees 2-3. Funicles 1-4 globular. Bowen, D. O. Atherton. **A. nassaui.** Gold, black—narrow band base abdomen, narrow middle cinctus scape, 1-4 funicles, club, base pedicel above. Abdomen round-triangular. Else as *atberti* save male with only body all black. Ex psyllid. Sydney, N.S. Wales, S. E. Flanders. **A. tricinctus.** Silvery; vertex, scutum-scutellum, axillae, orange; jet: upper occiput, abdomen above save lateral margin, propodeum save lateral margin, thorax cephalad of propodeum off the scutellum, knees, 3 cincti on tibiae, club, basal $\frac{1}{2}$ pedicel, moderate dilation scape, funicles 1-4, latter twice wider than long. Toowoomba, June 15, 1927, L. H. R. Rogers. **A. Keatsi.** From *turneri*: Abdomen gold, phragma, propodeum black, a narrow cinctus below knee 2; male abdomen black save margins, flagellum dusky. Mt. Cootha, ex *Cleptes* on *Acacia*, III, 1929, A. R. Brimblecombe. **A.**

aligherini. Black, legs dusky. Fore femur, head, lateral margin scutum rather widely, yellow. Funicles quadrate enlarging. Nearly glazed. Scape stout, dilated moderately. Brisbane. **A. turneri.** Gold; pronotum mesad, funicles 1-2, club 1, basal $\frac{1}{2}$ pedicel, distal $\frac{1}{2}$ scape save apex, black. Pedicel subelongate, scape moderately dilated, funicles 1-3 globular, rest wider. Rockhampton.

OAPHYCUS.

From *Aphycus*: Palpi 1-, 2- jointed; marginal distinctly longer than wide, equal stigmal, twice length postmarginal. Type *Aphycus sanguinithorax*, Gir.

Eupelmus marxi. Honey, wings clear, ovipositor subequal abdomen, third $\frac{1}{2}$ pale, so palpi, base abdomen. Head, antennae, coxa 3 (save apex), cephalic scutum, scutellum, propodeum, metapleurum, purple. Funicle 2 thrice longer than wide, equal 3, pedicel shorter. Indooroopilly, secondary growth, Dec. 29, 1931. To K. Marx.

Calosota varipunctata. From *plutarchi*: Scape red Postmg. twice the stigmal. Nelson, A. P. Dodd, Sep., 1920.

Cal. plutarchi. Postmg. vein distinctly exceeding stg., ovipositor extruded, abdomen stylate, small; pedicel equal funicle 2; scape aeneus, legs not all aeneus. Queensland.

Cal. parva. From *plutarchi*: Ovipositor none, scape legs except coxae, nonmetallic. No stylus. Nelson, Feb., 1921, A. P. Dodd.

Aphycus semialbus. From *sanguinithorax*: Sanguineus only in dots, else yellow, (palps normal), more robust, scape much dilated, pale only center of side, funicles 4-6 contrasting white, 5-6 equal; metathorax black. Venation normal. Ovipositor very short. Perth, W. Australia, Sep.

Neobrachista novifasciata Gir. **leptopsi.** From typical form: Mesopleurum black, four abdominal cross-bands (5th, 6th at apex and an abbreviated one near first). Ova *Leptops*, Sunnybank, Dec. 30, 1931, J. A. Weddell.

Zarhopaloides speciosus. From *axillaris*: Wings with smoky band, flagellum black, hind legs, coxae green, so propleurum: cephalic margin axillae green. Yellow of scutum more curved. Chinchilla, Sept. 15, 1931, S. E. Flanders.

NASSAUUA (Mirini).

From *Plagiomerus*: Club 2- jointed, exceeding funicle, joints of latter transverse; fore legs dilated; scutellum simple; marg., postmarg. punctiform. Distal funicle abruptly large. Minute.

N. atoma. Black. Distal funicle subquadrate. Benarkin, June.

SCHILLERANA (Ectromatini).

From *Elijahia*: Pstmg. elongate, mg. thrice longer than wide, stg. exceeding it. Hind tibiae clavate, a dorsal exfoliation above at distal $\frac{1}{2}$. Club solid, scape cylindrical, frons wide.

S. dilatata. Blue, pilose; legs save coxae 1-2, dilation of tibia 3, hind tarsi, scape, abdomen except dorsad (save 2), red. Wing 1 smoky at distal $\frac{1}{2}$. Funicle 1 thrice longer than wide. Sculpture fine, umbilicate punctures on vertex caudad. Indooroopilly, forest, Apr. 12, 1931.

MARXELLA (Ectromatini).

Antennae as in *Coccophagus*. Jaws acutely bidentate. Usual, minute. Marginal vein quadrate, pstmg. subobsolete, stg. longer than mg. Male antennae filiform, 6 funicle, 2 club joints, clothing short.

M. richteri. Green, wings clear, tibial tips, tarsi, pale. Pedicel equal to quadrate funicles, club equal to funicle. Five lines cilia proximad of the hairless line. Deception Bay, III., 1909, Dr. Bancroft. To Karl Marx.

MARXIANA.

From *Thaumasura*: Face ridged as in *Eusandalum*; antennae 12-jointed, 1 ring-, 2 club joints. Penultimate tergite strongly compressed into a ridge. Hind tibial spurs weak. Abdomen cylindrico-compressed, tubular.

M. grandiosa. Aeneous. Scape, fore legs, femora, tibiae 2-3, ovipositor red, tarsi white save base, so funicles 3-6. A central spear-shaped mark on wing 1. Funicles 1-3 thrice longer than wide. Finely punctate. Pstmg thrice the rather long, curved, clavate stg. Gold Creek, 28 Nov., 1931, L. Franzen.

Achrysopophagus nigriflagellum. Purple, scape slender, ovipositor red, axillae, scape pale orange. Apex wing hyaline. Basal $\frac{1}{3}$ femur 3, spur, hind, middle tarsi, white. Bowen, D. O. Atherton in Aug.

THYSANOPTERA.

1. **Desmothrips mendozai.** From *uniguttus*: Wing 1 fuscous save basal $\frac{1}{2}$, antennae entirely fuscous. Second ring-vein half-way to third. Mundaring, W. Aus., L. J. Newman, Feb. 25, 1931. Second wing hyaline.

2. **Haplothrips lacuseni** (Krüger) = **Kentronothrips hawaiiensis** Moul. Bundaberg, cane, Nov. 3, 1931, R. W. Mungomery.

3. **Parafrankliniella nigripes** Gir. Roses, Guildford, W. Aus., Dec., 1930, L. J. Newman.

BRISBANE, FEB. 10, 1932.

[THE END.]