

Mr. C. F. M. Swynnerton spoke on recent progress in anti-tsetse work, illustrating his remarks with lantern slides. Mr. Hugh Main exhibited some living insects from the Riviera.

selection of the addresses presented at the Society's Centenary were on in the Library.

The following papers were read: (1) Hymenopterous parasites of British Lepidoptera, by C. Morley and W. Rait-Smith; (2) on an advance of the Tsetse Fly in Central Tanganyika, by C. H. N. Jackson.—S. A. NEAVE, *Hon. Secretary*.

NEW SPECIES OF STAPHYLINIDAE (COL.) FROM JAPAN.*

BY MALCOLM CAMERON, M.B., R.N., F.R.E.S.

OXYTELINAE.

Orochares japonica sp.n.

Very shining, black, the head and thorax with greenish reflex, the explanate side margins of the latter (and occasionally the anterior and posterior margins very narrowly) yellow; elytra brownish-yellow. Antennae black, the first four joints and the legs reddish-yellow. Length 3.3 mm.

In colour very similar to *angustata* Er., but of narrower build, the head and thorax without trace of ground sculpture, the antennae with the penultimate joints a little shorter, the eleventh distinctly shorter, the eyes smaller, the ocelli larger; thorax more transverse, the sides evenly rounded, the puncturation much finer. Head as long as broad, hexagonal, much narrower than the thorax, the anterior border gently rounded, before the ocelli on each side with a large, deep fovea; postocular region long, straight, retracted backwards; front impunctate, elsewhere with small scattered punctures more numerous towards the base. Antennae long, the penultimate joints about as long as broad. Thorax about a fourth broader than long, the sides rounded, more retracted behind, all the angles rounded, against each side margin near the middle with a fovea, puncturation very fine, sparing, impunctate along the middle and almost impunctate towards the sides. Elytra more than twice as long as the thorax, closely and rather strongly punctured. Abdomen finely transversely striate, almost impunctate.

Kobe. Three specimens.

Trogophloeus (s.str.) *biimpressus* sp.n.

Black, moderately shining. Antennae and legs reddish-yellow, the former a little infusate towards the apex. Length 3 mm.

Size, build and colour of *vagus* Shp., but differing in the much finer puncturation of the thorax and elytra, the former with only the basal impressions present. Head narrower than the thorax, the eyes large, the postocular region very short, impressed longitudinally internal to the antennal tubercle on each side, finely and closely punctured. Antennae with the fourth joint a little longer than broad, a little narrower and shorter than the fifth, the penultimate joints as long as broad. Thorax strongly transverse, the sides in front strongly dilated and rounded, strongly retracted behind, before the scutellum with strongly raised median keel, on each side of it with a short transverse basal impression, otherwise not impressed, the sculpture as on the head. Elytra nearly half as long again as the thorax, closely but much less finely punctured. Abdomen very finely and closely punctured, grey pubescent.

Nikko: 17.viii.31. Unique.

* All the species here described were collected by Mr. J. E. A. Lewis of Kobe.

Trogophloeus (*Boopinus*) *sharpianus* sp.n.

Size and build of *nigrita* Woll. The antennae similarly constructed, but the latter entirely reddish-yellow, like the legs; the abdominal pubescence coarser, otherwise scarcely differing from *nigrita*. Length 2.3 mm.

Kobe: Harada. Unique.

EUAESTHETINAE.

Edaphus piceus sp.n.

Shining, pitchy, the front and vertex of the head and posterior margins of the abdominal segments yellowish-red. Antennae and legs reddish-yellow, the last two joints of the former blackish. Length 1—1.3 mm.

Differs from both *japonicus* Shp. and *carinicolis* Bernh. in the darker colour, less transverse thorax, the sides being much less dilated in front; the puncturation of the thorax and elytra is extremely fine, scarcely perceptible, the central keel of the former is not prolonged forwards as in *carinicolis*.

Kobe.

PAEDERINAE.

Scopaeus (s.str.) *japonicus* sp.n.

Head, thorax and elytra shining reddish-yellow, the latter scarcely infusate on the disc; abdomen less shining, yellowish-brown, the apex lighter. Antennae and legs reddish-yellow. Length 2.2 mm.

Head a little longer than broad, distinctly widened behind the eyes, finely and closely punctured, impunctate along the middle of the front. Antennae rather short, the third joint shorter than the second, fourth to sixth slightly longer than broad, the penultimate transverse. Thorax almost a third longer than broad, at the middle of the base with feeble raised line, with scarcely visible impression on each side, the puncturation a little less fine and scarcely as close as on the head, narrowly impunctate along the middle. Elytra as long as the thorax, closely and more distinctly punctured. Abdomen very finely and closely punctured and pubescent, a little dilated behind. The fore-parts are finely and rather sparingly covered with yellow hairs.

Kobe: Mayasan, 12.x.30. A single ♀ example.

STAPHYLININAE.

Leptacinus japonicus sp.n.

Shining, head and abdomen black; thorax reddish-brown, with dorsal row of eight small punctures; elytra brownish-yellow, obscurely darker at the base. Antennae red. Legs yellow. Length 4.2 mm.

Build of *parumpunctatus* Gyll., but smaller and narrower, with smaller and more numerous punctures in the dorsal thoracic row. Head a little widened behind, the sulci well marked, the lateral ones extending backwards beyond the median, the post-ocular region with smaller punctures than in *parumpunctatus*, but about as close; ground sculpture absent. Antennae as in *parumpunctatus*, but less stout. Thorax with the sides retracted and very slightly emarginate behind the middle, with five small punctures in a curved row externally; ground sculpture absent. Elytra as long as the thorax, with three rows of fine punctures on each, one sutural and two others near the side margin. Abdomen with a few fine punctures.

Kobe.

Actobius kobensis sp.n.

Black, head and thorax more shining, the posterior margins of the abdominal

segments narrowly rufescent. Antennae black or blackish, the first, ninth, tenth and eleventh joints orange-yellow. Legs reddish-yellow, the tibiae scarcely infusate. Length 5 mm.

Var. Elytra obscurely reddish, infusate behind.

A little larger and more robust than *cinerascens* Gr., the antennae longer and differently coloured, the head broader, as long as broad, the punctures similar but less close, penultimate joints of antennae a little longer than broad; puncturation and ground sculpture of the thorax scarcely differing from that of *cinerascens*; elytra and abdomen distinctly less closely and a little less finely punctured than in that species.

Kobe: Mayasan. Kyushu, Mt. Unzen.

The *Actobius inornatus* Shp. is a *Neobisnius*.

Actobius japonicus sp.n.

Head and thorax shining, black; elytra and abdomen less shining, pitchy-black, the posterior margins of the segments narrowly reddish. Antennae entirely reddish-yellow. Legs yellow, the tibiae scarcely infusate. Length 4.75 mm.

Size and colour of *signaticornis* Rey, but with the head broader, square, the antennae longer, the penultimate joints fully as long as broad, thorax a little longer and narrower, the ground sculpture of both head and thorax much less distinct. The puncturation and pubescence throughout scarcely differing from that of *signaticornis*.

Kobe.

Philonthus (Gabrius) minimus sp.n.

Of the same colour and build as *thermarum* Aubé, but much smaller (2.5 mm.) and narrower, the antennae much thinner though similarly constructed, the head distinctly impressed in front, the ground sculpture of the head and thorax much stronger, the puncturation of the abdomen finer and less close. The elytra are as long as the thorax.

Chuzenji.

TACHYPORINAE.

Bolitobius (s.str.) *niponensis* sp.n.

Shining; head, thorax and abdomen black, the side margins of the thorax narrowly yellowish for the anterior, more broadly for the posterior half, the posterior margin also very narrowly yellow, the posterior margins of the abdominal segments narrowly rufescent; elytra yellow, with the scutellary region triangularly black and with a triangular black spot extending from a little behind the shoulder nearly to the posterior margin and extending over the reflexed margin. Antennae black, the first four joints yellow. Legs yellow. Length 4.75 mm.

Smaller and narrower than *semirufus* Shp., with differently coloured abdomen and the elytral marking produced and narrowed towards the shoulder, the head differently shaped, etc. Head a little longer than broad, oval, widened behind the eyes, extremely finely, sparingly punctured posteriorly, the frontal region impunctate, ground sculpture absent. Antennae slender, the penultimate joints fully as long as broad. Thorax slightly transverse, behind the anterior margin with a pair of large punctures, extremely finely and sparingly punctured, extremely finely transversely striate. Elytra nearly half as long again as the thorax, with three rows of fine close punctures, a sutural of ten, and dorsal and marginal each of twelve, very finely transversely striate. Abdomen narrowed from base to apex, finely, sparingly punctured except on the seventh segment,

where the punctures are closer, coarser and elongate, sparingly covered with long, stiff hairs.

Chuzenji. Unique.

Bolitobius (Lordithon) lewisi sp.n.

Shining; head black, the front reddish-yellow; thorax dark brown; elytra reddish-yellow, obscurely infusate postero-externally; abdomen dark reddish-brown. Antennae reddish-yellow, a little infusate towards the apex. Legs yellow. Length 4.5 mm.

Size of *thoracicus* F. but of narrower build, the antennae similarly constructed but differently coloured, the elytra much more punctured. Head a little broader than long, practically impunctate. Antennae rather short, the fifth joint scarcely, the sixth to tenth distinctly transverse, gradually increasing in width. Thorax slightly broader than long, behind the anterior margin with a pair of punctures, extremely finely transversely striate. Elytra about a third longer than the thorax, with a sutural row of five punctures and four other rows on the disc not reaching the base, the inner row consisting of five, the others of seven to nine punctures, the second and third rows being in shallow and not very distinct sulci. Abdomen pointed, rather closely covered with coarse, elongate punctures.

Kobe. Unique.

Conosoma kobense sp.n.

Narrow, elongate, black, moderately shining, each elytron with rather well-defined orange-red obliquely placed oval mark at the base extending from the shoulder nearly to the middle near the suture; abdomen with the posterior margins of the segments narrowly rufescent. Antennae and legs yellow. Length 4.75 mm.

In the narrow build and fine close pubescence resembling *gracile* Kr. From *binotatum* Gr. it differs in the narrower build, longer, differently coloured antennae and much finer and closer pubescence. Head very finely, moderately closely punctured and with a very fine reticulate ground sculpture. Antennae with the intermediate joints much longer than broad, gradually decreasing in length, the ninth and tenth about as long as broad, the eleventh scarcely as long as the two preceding together. Thorax slightly transverse, the puncturation a little finer and closer than that of the head, the ground sculpture similar. Elytra a little longer and narrower than the thorax, gradually narrowed backwards, the sculpture very similar to that of the thorax. Abdomen as closely but rather more finely punctured than the elytra. The whole insect covered with a very fine close greyish pubescence.

Kobe.

Tachyporus frontalis sp.n.

Shining; head black, the front and adjacent part of the vertex reddish-yellow. Thorax and elytra reddish-yellow, the former with broad, ill-defined brownish marking in the middle extending from the anterior almost to the posterior margin. Abdomen red, the last two segments black. Antennae with the first four joints yellow, the following reddish-yellow. Legs reddish-yellow. Length 4 mm.

Size and build of *chrysomelinus* F., but differing in the colour, shorter antennae and much less finely punctured elytra and abdomen. Head and thorax almost impunctate, extremely finely transversely striate. Antennae distinctly thickened towards the apex, fourth to eighth joints elongate, gradually decreasing in length, ninth and tenth about as long as broad. Elytra about a third as

long again as the thorax, convex, finely, moderately closely punctured, the sides with five black setae. Abdomen rather closely and rather coarsely punctured at the bases of the segments, more finely and more sparingly elsewhere, the sides and apex with black setae.

Settsu. Unique.

Tachinus kobensis sp.n.

Shining, black, the side and posterior margins of the thorax very narrowly reddish-yellow, the posterior margin of the abdominal segments narrowly reddish. Antennae reddish-yellow, more or less infusate from the third joint. Legs reddish-yellow. Length 4.5 mm.

In build most resembling *brunneicollis* Cam., but in other respects different. Head extremely finely and sparingly punctured and without ground sculpture except near the eyes and on the neck. Antennae with the fourth to eighth joints longer than broad, gradually decreasing in length, the ninth and tenth scarcely longer than broad. Thorax almost twice as broad as long, the angles broadly rounded, the sides evenly rounded, the puncturation extremely fine, rather sparing; ground sculpture wanting. Elytra a little narrower and about half as long again as the thorax, moderately finely and moderately closely punctured, coriaceous.

♂. Eighth dorsal segment with broad median plate, its apex broadly and obtusely emarginate; side margin of the segment forming a short tooth, separated by an acute excision from the median plate; sixth ventral segment divided by a deep, broad, acute median excision into two subtriangular plates, each externally before the apex with a short tooth; fifth in the middle behind with large subtriangular impression, its base broadly arcuately emarginate, its fundus granulate.

♀. Unknown.

Kobe: Mayasan.

The types of the above described species are in my collection.

ALEOCHARINAE.

Lencocraspedum sp.n.

Moderately shining, entirely reddish-yellow, only the eleventh joint of the antennae infusate. Length 1.4 mm. (abdomen normally extended).

A small, narrow species, readily recognised by its size and colour. Head and thorax extremely finely, moderately closely punctured. Antennae with the third joint shorter than the second, fourth as long as broad, fifth to tenth transverse, slightly increasing in width, the eleventh stout, as long as the two preceding together. Elytra as long as the thorax, much more closely and much more distinctly punctured, the punctures asperate. Abdomen narrowed from base to apex, finely and much less closely punctured than the elytra, the sides and apex with black setae. The whole insect covered with a rather fine yellow pubescence, the posterior margins of the abdominal segments with longer yellow hairs. Middle and posterior tibiae each with a black seta externally about the middle.

KOBE.

Myllaena torrentum sp.n.

Colour, build and lustre of *japonica* Shp., but smaller (2.5 mm.), the antennae shorter, the penultimate joints scarcely longer than broad, the first and eleventh joints yellow, the latter about as long as the two preceding together, the second to tenth joints blackish, the elytra rather more finely punctured than in *japonica*.

KOBE: Cascade Valley, 20.xii.27.

Myllaena rufotestacea sp.n.

Moderately shining, rufo-testaceous, the head and abdomen occasionally a little infusate. Antennae and legs yellow. Length 2.5 mm.

In colour and lustre similar to *brevicornis* Matth., but a little narrower, the antennae distinctly longer and thinner, the thorax shorter and so more transverse; the elytra are as long as the thorax. The joints of the antennae are obviously longer, the eleventh joint half as long again as the tenth. The puncturation throughout is a little finer.

KOBE: Mayasan, 12.iv.30.

Myllaena lewisi sp.n.

Entirely reddish-yellow, the abdomen occasionally slightly infusate. Antennae and legs yellow. Length 1.5 mm.

Near *infusata* Kr., but differently coloured, the elytra shorter, narrower than the thorax and only about half as long. The structure of the antennae is similar to that of *infusata*, and the sculpture is not appreciably different.

KOBE: Mayasan, 12.iv.30.

Oligota (s.str.) parvula sp.n.

Linear, shining; head and abdomen black, the greater part of the seventh and the whole of the eighth segment reddish-yellow; thorax and elytra dark brown, the lateral and posterior margins of the former very narrowly and obscurely lighter. Antennae black, the first four joints and the legs yellow. Length 0.8 mm.

Near *parva* Kr. More shining, darker in colour, the fore-parts less pubescent, the 3-jointed antennal club with the eighth and ninth joints more transverse, thorax shorter, puncturation of the fore-parts less close, that of the abdomen scarcely differing from *parva*, seventh segment obviously longer than the sixth, elytra about a third longer than the thorax.

KOBE.

Cyrophæna (s.str.) cariniventris sp.n.

Shining; head black, thorax brownish-red, the lateral and posterior margins narrowly yellowish; elytra yellow, blackish at the postero-external angles; abdomen reddish-yellow, the whole of the sixth and base of the seventh segments black. Antennae yellow, the sixth and following joints slightly infusate. Legs yellow. Length 4 mm. (abdomen extended).

Head transverse, lozenge-shaped, on either side of the middle near the base with a row of three moderate punctures, a single puncture at the inner margin of the eye and two others placed obliquely between its posterior border and the base, otherwise impunctate and without ground sculpture. Antennae slender, the third joint as long as the second, fourth scarcely longer than broad, fifth a little longer and stouter than the fourth, the penultimate joints as long as broad. Thorax transverse, the sides gently rounded, a little more retracted in front, the posterior angles rounded with the base, the basal margin raised, on each side of the middle with a row of four punctures, the basal and apical pairs larger than the others, the distance between the third and fourth punctures greater than that between the others, externally about the middle with a single puncture, and yet another near the rounded posterior angles, otherwise (except for the usual marginal punctures) impunctate and without ground sculpture. Elytra broader and a third longer than the thorax, broadly, superficially impressed along the side margin nearly to the shoulder, the impression moderately finely and moderately closely punctured, elsewhere almost impunctate, ground sculpture absent. Abdo-

men a little narrowed at the apex, rather closely, finely punctured on the first three (visible) segments, the fourth and fifth very finely, obsoletely, longitudinally striate.

♂. Third (first visible) segment with small arcuate emargination in the middle of the posterior margin; fourth with strongly raised median keel extending from base to apical margin; seventh on each side of the middle with slightly curved ridge, slightly incurved behind extending from the base for about half the length of the segment; eighth with three equally long teeth, the lateral incurved and rather more slender than the median and separated from each other by arcuate emarginations.

CHUZENJI. Unique.

***Cyropaena* (s.str.) *rugulipennis* sp.n.**

In size, colour and build similar to *cariniventris* Cam., but with the penultimate joints of the antennae a little longer, slightly longer than broad, the elytra rugosely punctured, the punctures irregular in size and close, only the extreme base and shoulders impunctate. The first two (visible) segments of the abdomen are practically impunctate and feebly coriaceous, the third to fifth impunctate and strongly coriaceous.

♂. Fourth (second visible) segment with large flat, transverse, obsolete tubercle near the posterior margin; sixth and seventh each with a row of six small tubercles near the posterior margin; eighth on each side with a cultriform process, in the middle with a small lamella, its apex notched, its base with a pair of contiguous tubercles, the surface of the segment with numerous small granules.

CHUZENJI. Unique.

***Cyropaena* (s.str.) *laevior* sp.n.**

Similar to *cariniventris*, and only differs in the elytra having the impression much less extensive, limited to the postero-external region and practically impunctate, the fine rugae on the fifth to seventh segments are less evident and ground sculpture is wanting.

The ♂ characters are very similar to those of *rugulipennis*, but the fourth (second visible) segment has two very small contiguous carinae near the base in the middle, the seventh has indications of the two curved ridges seen in *cariniventris*, the lateral processes of the eighth segment are narrower and scarcely cultriform, the median plate is broader, more deeply notched, with larger tubercles at its base. In one example the apex of the plate is rounded.

CHUZENJI.

***Cyropaena* (s.str.) *niponensis* sp.n.**

Shining; head black, thorax blackish-brown, elytra yellow, scarcely infusate at the postero-external angles, abdomen reddish-yellow, the sixth and seventh segments black. Antennae and legs reddish-yellow. Length 4 mm. (abdomen well extended).

Size and build of *pulchella* Heer, the antennae similarly constructed, the thorax differently coloured, the elytra with larger, less obsolete punctures. Head transverse, the eyes moderate, prominent, on each side of the middle with a row of four or five small punctures, feebly coriaceous. Antennae slender, the fourth joint as long as broad, the fifth longer and broader, the penultimate as long as broad. Thorax transverse, the sides rounded in front, retracted behind, before the scutellum on each side with a small transverse fovea and a row of three or four moderate punctures on each side of the middle line, externally with one or

two more, otherwise practically impunctate, obsoletely coriaceous. Elytra a little longer than the thorax, transverse, finely, obsoletely, rather sparingly punctured, coriaceous. Abdomen with a row of fine punctures on the posterior margins of the segments, otherwise practically impunctate.

♂. Seventh dorsal segment with a small tubercle in the middle near the posterior margin; eighth with broad, shallow, arcuate emargination of the posterior border limited on each side by a small tooth.

CHUZENJI.

***Cyropaena* (s.str.) *lewisiana* sp.n.**

Shining; head and thorax black (the latter more pitchy) with distinct purplish reflex; elytra yellow, blackish at the postero-external angles; abdomen reddish-yellow. Antennae with the first four joints yellow, the rest black. Legs yellow. Length 3 mm. (abdomen extended).

Build of *niponensis* Cam., but differs in the purple reflex of the head and thorax, the differently coloured, rather more slender antennae, the head with finer punctures at the sides, the thorax with a few very fine scattered punctures externally beside the two dorsal rows of larger punctures, and the elytra less obsoletely punctured.

♂. Eighth dorsal segment with a broad truncate emargination, the lateral margin produced as a moderately long, sharp tooth.

SETTSU: Katsuogi.

***Cyropaena* (s.str.) *biseriata* sp.n.**

Shining; head black, thorax and abdomen reddish or reddish-yellow, the sixth segment more or less infusate; elytra brownish-yellow, slightly infusate postero-externally. Antennae black, the first four joints yellow. Legs yellow. Length 2 mm. (abdomen normally extended).

In build resembling *pulchella* Heer, but much smaller. Head with a few moderate punctures on each side, very finely coriaceous. Antennae with the fourth joint small, transverse, the fifth much broader, fully as long as broad, the sixth to tenth gradually more transverse. Thorax with four quadrately placed punctures on the disc, with one or two others externally, and with a few extremely fine, scarcely visible punctures between the four chief punctures, the ground sculpture very fine as on the head. Elytra a little longer than the thorax, very finely, rather closely punctured. Abdomen very finely and very sparingly punctured.

♂. Eighth dorsal segment on each side with rather long, slightly incurved cultriform process, the rather broad margin between slightly produced and rounded in the middle.

KOBE: Mayasan.

(To be continued.)

NOTES ON THE PASSALIDAE (COLEOPTERA).

BY W. D. HINCKS, M.P.S., F.R.E.S.

No. 3.¹ NEW SYNONYMY AND SOME LITTLE-KNOWN SPECIES
WITH THE DESCRIPTION OF A NEW *PUBLIUS*.

I am deeply indebted to Mons. René Oberthür for permitting me to examine some type specimens from Kuwert's collection in his possession. Most of the specimens are Madagascan and will be