

toque tenuissime luteo-marginatis, mesonoto carinis tribus tenuissimis luteis; alis anticis subhyalinis basi fuscis striga prope costam lutescente maculaque parva ovali prope basin hyalina, costa basi rotundato-dilatata, costa lutescenti guttis 13 minimis nigris marginalibus, nubila parva ante medium punctoque parvo in loco stigmatis fuscis; alis posticis subfalcatis nigris punctis duobus costalibus hyalinis; femoribus anticis luteis, tibiis tarsisque fuscis; femoribus posticis basi tibiis piceis, harum apicibus, tarsisque albidis, promuscide luteo, basi macula magna nigra.—Expans. alar. antic. lin. 6.

Hab. in Sierra Leone. Rev. D. F. Morgan. Mus. Brit.

Derbe (Phenice?) carnosa, W.

D. tota luteo-carnosa, tibiis 4 anticis fuscis, alis flavido-hyalinis margine costali pone medium anticarum margineque externo posticarum fuscis, his puncto medio nigro; articulo apicali promuscidis nigro, cercis analibus maris elongatis curvatis forcipatis; abdomine foeminae cornubus duobus porrectis terminato.—Expans. alar. antic. lin. 7.

Hab. in India orientali (DD. Downes et Boys). Mus. Westwood, &c.

Derbe (Thracia) Essingtonii, W.

D. luteo-fulva pronoti lateribus albo-granulatis, mesonoto carinis tribus angustis pallidis, scutello albedo, abdominis segmentis intermediis piceis albedo-granulatis, pedibus albidis; alis anticis fusco-albidis fusco-maculatis, costa alba puncto majori ante apicem, maculaque obliqua apicali fuscis, antennis rufescenti-granulatis.—Long. corp. lin. 2. Expans. alar. antic. lin. 11.

Hab. in Nova Hollandia apud Portum Essingtonii. Mus. Westwood, &c.

Derbe (Thracia) Pterophoroides, W.

D. fusco-albida luteo-tincta, carina faciei et basi promuscidis fusco albedoque irroratis, antennis fusco-granulatis, pronoti lateribus deflexis, albedo-granulatis, mesonoti carinis tribus fuscis albedo irroratis fasciaque media transversa abbreviata albida, abdomine concolori albedo-granulato; pedibus, promuscide et alis anticis obscure albidis, his maculis fuscis minutissimis undique variegatis strigaeque obliqua majori apicis alteraque angustiori abbreviata obliqua in medio marginis interni, nigricantibus.—Expans. alar. antic. lin. 14½.

Hab. in Insula Ceylon. D. Templeton.

XXI.—Notes on Chalcidites, and Descriptions of various new species. By FRANCIS WALKER, F.L.S.

[Continued from vol. v. p. 133.]

Encyrtus Petitus, fem. *Flavus*, antennis apice fuscis, alis vix ullis.

Body pale yellow: head and chest convex, dull, very finely shagreened: head short, broad; crown convex: feelers clavate, shorter

than the body; first joint long and slender; second long cup-shaped; third and following joints successively increasing in breadth; club pale brown, elliptical, much broader than the ninth joint and more than twice its length: chest short, broad: abdomen nearly round, smooth, shining, depressed, rather shorter and narrower than the chest: legs pale yellow, of moderate length: wings rudimentary. Length of the body $\frac{1}{3}$ line.

Ireland. In Mr. Haliday's collection.

Myina annulipes (Haliday MSS.), mas. *Lutea, pedibus flavis, mesotibiis apice nigris, alis limpidis.*

Body luteous, linear: head and chest convex, slightly shining: head as broad as the chest: abdomen obconical, depressed, apparently quite sessile, a little shorter than the chest: eyes and eyelets pitch-colour: feelers luteous, filiform, a little longer than the body; first joint yellow, long and slender; second short; third, fourth and fifth long; sixth spindle-shaped, a little longer than the fifth: legs yellow; tips of middle shanks black: wings colourless; veins yellow. Length of the body $\frac{1}{4}$ line; of the wings $\frac{1}{2}$ line.

Found at Holywood. In Mr. Haliday's collection.

Myina livens (Haliday MSS.), fem. *Corpore antennisque lividis, pedibus flavis, alis sublimpidis.*

Body narrow, smooth, shining, pale tawny: head a little broader than the chest, prominent in front, marked above with brown: eyes dark red: feelers clavate, very pale tawny, rather longer than the chest: first joint very pale yellow, long and slender; second cup-shaped; the three following joints forming a spindle-shaped club: chest linear, nearly flat, with a channel along the middle; sutures of the segments indistinct: abdomen slightly increasing in breadth from the base till near the tip, depressed above, not keeled beneath, rather longer and broader than the chest to which it is closely applied: legs pale yellow: wings very narrow, nearly colourless; veins pale tawny, not reaching the middle of the wing; ulna hardly longer than the humerus; radius none; cubitus very short. Length of the body $\frac{1}{4}$ line; of the wings $\frac{1}{3}$ line.

Chætostricha dimidiata (Haliday MSS.). *Ferruginea, abdomine nigro, antennis pedibusque flavis, his fusco variis, alis basi fuscis.*

Ferruginous: head transverse, short, depressed in front: chest short: fore-chest extremely short: shield of the middle-chest broad; scutcheon small: abdomen black, smooth, shining, obconic, sessile, hollow above, keeled beneath, a little broader and longer than the chest: legs yellow; fore-thighs and middle-shanks brown at the base; middle-thighs, hind-thighs and hind-shanks brown, the latter yellow beneath and at the tips: feelers nearly spindle-shaped, yellow, about half the length of the body; first joint long; second long cup-shaped, brown at the base; third broad; fourth, fifth and sixth forming a spindle-shaped club; sixth joint dart-shaped: fore-wings broad, brown from the base to beyond the middle; veins brown, not

reaching beyond the middle of the wing; humerus long; ulna short; radius very short; cubitus rather short; stigma large. Length of the body $\frac{1}{4}$ line; of the wings $\frac{1}{2}$ line.

Found at Holywood. In Mr. Haliday's collection.

Trichogramma vitripennis. *Fulva, fusco varia, pedibus flavis, alis limpidis.*

Body tawny, linear, smooth, shining, paler and somewhat narrower than that of *T. evanescens*: head and chest convex, slightly varied with brown: abdomen obconical, depressed, apparently quite sessile, a little broader but not longer than the chest, slightly keeled beneath: feelers tawny, clavate, not half the length of the body; the club is pointed: legs yellow: wings colourless; fore-wings very broad; veins tawny, not reaching beyond the middle of the wing; humerus moderately long; ulna very short; radius none; cubitus long; stigma small. Length of the body $\frac{1}{4}$ line; of the wings $\frac{1}{2}$ line.

Holywood. In Mr. Haliday's collection.

Oligosita collina (Haliday MSS.), fem. *Lutea, antennis pedibusque flavis, alis limpidis.*

Body rather narrow, bright pale luteous: head hardly broader than the chest: eyes and eyelets piceous; the former very large: feelers pale yellow, subclavate, brown towards the tips, much more than half the length of the body; first joint very long; second cup-shaped; third and following forming a spindle-shaped club: chest short, nearly flat; sutures of the segments indistinct: abdomen spindle-shaped, depressed above, hardly keeled beneath, nearly twice the length of the chest to which it is closely applied: legs yellow, slender; four hinder feet pale yellow with brown tips: wings colourless, very narrow, deeply fringed; veins yellow, reaching a little beyond the middle of the fore-wing; ulna rather longer than the humerus; cubitus a little longer than the radius, with which it forms a very acute angle; wing-brand small, pale brown. Length of the body $\frac{1}{6}$ line; of the wings $\frac{1}{4}$ line.

On a mountain heath near Belfast. In Mr. Haliday's collection.

Synopsis of the TRICHOGRAMMINI.

"Trib. *Trichogrammini*. Tarsi trimeri. Tibiæ anticæ calcari apice inciso. Antennæ articulis 6, 3 extremis in clavam coarctatis (an semper?): abdomen subsessile: statura *Aphelini* (*Myinæ*) fere, et huic magis affines videntur quam *Eulophinis*; *Oligosita* vere pedibus gracilibus, tarsis 2^{di} paris elongatis, alis longe fimbriatis *Thysani* speciem mentitur.

"Generum conspectus.

* Alæ anticæ seriatim pubescentes.

† Vena costam sinu tantum attingens ad ortum radii. 1. *Trichogramma*, *Westwood*.

†† Vena costam longius decurrens ante ortum radii. 2. *Chætostricha*, n. g.

** Alæ vage pubescentes.

† Alæ anticæ latæ, margine subtiliter ciliatæ. 3. *Brachista*, n. g.

†† Alæ anticæ angustæ, longe fimbriatæ (plumatæ). 4. *Oligosita*, n. g."—*Haliday MSS.*

Cea Irene, fem. *Ænea*, capite æneo-viridi, scutello purpureo, abdomine violaceo cupreo, antennis pedibusque nigris, genibus tarsisque basi piceis, alis fusco bifasciatis.

Female. Body convex, smooth, shining: head coppery green, transverse, a little broader than the chest; crown convex; front impressed: eyes black, rather large: eyelets three, placed in a triangle on the crown: feelers nine-jointed, slender, nearly filiform, inserted near the mouth, a little shorter than the body; first joint long and slender; second rather long, slightly spindle-shaped; third rather longer than the second; fourth and following joints of nearly equal length, each somewhat shorter than the third; three terminal joints somewhat shorter than the preceding: chest coppery, spindle-shaped: fore-chest small, concave behind: shield of the middle-chest rather large; sutures of the parapsides distinct; scutcheon purple, obconical, rather large: hind-chest large, declining, and narrower towards the tip: petiole very short: abdomen spindle-shaped, violet-copper, slightly compressed, keeled beneath, having a few bristles at the tip, narrower but not shorter than the chest; first segment long; second much shorter than the first; third and following segments still shorter: sheaths of the oviduct black, hairy: legs black, rather long and slender; trochanters, knees, and base of the first joint of the feet pitch-colour: wings narrow, somewhat dusky, deeply fringed like those of the *Mymaridæ*; each fore-wing traversed by two broad brown bands; ulna a little shorter than the humerus; radius much shorter than the ulna; cubitus very short; stigma small. Length of the body 1 line; of the wings $1\frac{1}{2}$ line.

Allied to *Gastrancistrus*, and is perhaps one of the links that form a passage thence to the *Mymaridæ*.

Found by Mr. Haliday, in September, on the sand-hills at Portmarnock near Dublin.

Iphitrachelus Lar, Haliday.—*Female.* Body black, convex, broad and short: head and chest dull: head broader than the chest; front convex: feelers brown, stout, club-shaped, inserted near the mouth, shorter than the body; first joint luteous, long and very robust; second cup-shaped; third and fourth elliptical, rather longer than the second; fifth, sixth and seventh very small; eighth, ninth and tenth soldered together, forming a spindle-shaped club without a trace of division: chest short and broad: fore-chest not visible above: shield large; sutures of parapsides very distinct; scutcheon small, obconical: hind-chest large, dark tawny, furrowed: abdomen elliptical, smooth, shining, shorter than the chest, and hardly more than half its breadth; first segment very large, and occupying the whole back: legs tawny: wings slightly brown; fore-wings very broad. Length of the body $\frac{1}{2}$ line; of the wings $\frac{2}{3}$ line.

Found by Mr. Haliday near Belfast.

Megastigmus Atedius, fem. *Niger, antennis, abdomineque piceis, pedibus fulvis, femoribus piceo-vittatis, alis limpidis, oviductu corpore vix longiore.*

Head and chest black, convex: head slightly punctured, almost smooth, tawny about the mouth, nearly as broad as the chest: feelers piceous, slender, very slightly increasing in breadth towards the tips, rather shorter than the chest; first joint long, slender, tawny; second cup-shaped, tawny; third and fourth yellow, very small; the following joints from the fifth to the eleventh slightly increasing in breadth and decreasing in length; club conical at the tip, more than twice the length of the tenth joint: chest very long, spindle-shaped, very finely shagreened; it is also transversely rugulose, but the furrows are scarcely perceptible: fore-chest large, subquadrate, very slightly rounded and narrower in front, somewhat convex on each side; its length nearly equal to its breadth: shield of the mid-chest very long with a scarcely perceptible ridge along the back; sutures of the parapsides very distinct, converging together; axillæ parted by rather less than one-third of the breadth of the chest; scutcheon long and narrow, irregularly elliptical, having an indistinct suture along the back and a distinct transverse suture near the tip which is almost smooth: hind-chest large, obconical, declining, dull, roughly punctured, with a slight ridge along the back: petiole very short: abdomen spindle-shaped, convex, smooth, shining, slightly compressed, dark piceous, somewhat tawny on each side, a little shorter and narrower than the chest; metapodeon occupying about one-fourth of the back; octoon short; ennaton and following segments longer: oviduct tawny; its sheaths black, pubescent, very little longer than the body: legs tawny; a slender piceous streak along each thigh; tips of feet piceous: wings colourless; veins brown; ulna nearly one-third of the length of the humerus; radius much longer than the ulna; cubitus very short, one-third of the length of the ulna; brand small, emitting a short branch, and in conjunction with a large round dark piceous spot. Length of the body $1\frac{3}{4}$ line; of the wings $3\frac{1}{2}$ lines.

England. In the collection of Mr. Dale.

Callimome Frontinus, fem. *Viridis, abdomine cyaneo-purpureo basi viridi, antennis nigris, pedibus viridibus, tarsis piceis basi flavis, alis limpidis, oviductu abdomine vix brevior.*

Body short, stout, compact, convex: head and chest green, finely shagreened: head as broad as the chest: eyes and eyelets red: feelers black, subclavate, rather stout and compact, shorter than the chest; first joint green, long, slender; the following joints with the usual proportions: chest elliptical, also with the usual proportions; tip of the scutcheon purple: abdomen long-oval, smooth, shining, bright bluish purple, bright green at the base, shorter and rather narrower than the chest; metapodeon occupying about one-third of the back, slightly concave at the base; all the following segments are shorter: sheaths of the oviduct black, pubescent, very nearly as long as the abdomen: legs green; trochanters, knees and fore-feet tawny; four

hinder feet tawny, pale yellow at the base, piceous at the tips: wings colourless; veins tawny; ulna full half the length of the humerus; radius about one-third of the length of the ulna; cubitus not half the length of the radius; brand very small, paler than the veins. Length of the body $1\frac{1}{4}$ line; of the wings $2\frac{1}{2}$ lines.

England. In the collection of Mr. Dale.

Entedon Syma. In two specimens of this species from the neighbourhood of Aix la Chapelle, and given to me by M. Foerster, the shanks are more or less brown.

Encyrtus Antistius, mas. *Æneo-viridis*, abdomine purpureo-cupreo, basi apiceque viridi, antennis nigris, pedibus fulvis, metapedum femoribus viridibus tibiis piceis, mesopedum tibiis basi femoribusque fuscis, alis limpidis.

Head and chest convex: head green, very finely shagreened, convex in front, nearly as broad as the chest: feelers black, hairy, filiform, rather slender, nearly as long as the body; first joint spindle-shaped, tawny, piceous above; second cup-shaped; third and following joints long, linear; club slender, slightly pointed, much longer than the preceding joint: chest coppery green, very finely punctured: fore-chest short, distinct above, narrow and rounded in front, its length about half its breadth: shield of the mid-chest short, rather flat, with no appearance of the sutures of the parapsides; axillæ nearly meeting on the back; scutcheon green, obconical, with a rim on each side to the tip: hind-chest coppery, shining, transverse, very short, nearly smooth, declining: petiole extremely short: abdomen oval, flat, smooth, shining, purplish bronze, bright green at the base, brassy green towards the tip, where it is thinly clothed with hairs, shorter than the chest and hardly equal to it in breadth: metapodeon occupying full one-fourth of the back; octoon and following segments shorter: legs tawny; tips of feet brown; hips and hind-thighs green; hind-shanks piceous; middle legs dilated as usual, their thighs and the base of their shanks mostly brown: wings colourless; veins brown; ulna rather thick, somewhat less than one-fourth of the length of the humerus; radius much shorter than the ulna; cubitus very little shorter than the radius; brand extremely small. Length of the body 1 line; of the wings $1\frac{3}{4}$ line.

England. In the collection of Mr. Dale.

Encyrtus Saccas, mas. *Nigro-æneus*, abdomine cupreo-viridi, antennis fulvis, apice piceis, pedibus piceis, tarsis flavis, metatarsis fuscis, alis limpidis.—Fem. Abdomine purpureo basi apiceque cupreo-viridi.

Male. Head and chest convex, brassy black: head finely shagreened, convex in front, nearly as broad as the chest: eyes and eyelets piceous: feelers tawny, filiform, very hairy, tips piceous; first joint spindle-shaped; second cup-shaped; third and following joints linear: chest rather long, nearly linear: fore-chest extremely short, hardly visible above: shield of the mid-chest long; its length nearly equal to its breadth, with no appearance of the sutures of the par-

apsides; axillæ just meeting on the back; scutcheon large, obconical, green at the tip: hind-chest and petiole very short: abdomen obconical, smooth, shining, flat, coppery green, brighter at the base, hardly more than half the length of the chest; metapodeon longer than the following segments: legs piceous; knees and feet yellow; tips of the latter piceous; hind-knees tawny; hind-feet brown: wings colourless; veins brown; ulna rather thick, not one-eighth of the length of the humerus; radius full twice the length of the ulna; cubitus shorter than the radius; brand extremely small.

Fem. Feelers clavate, tawny, shorter than the chest; first joint spindle-shaped, green; second cup-shaped, piceous; the following joints from the third to the eighth successively increasing in breadth; club piceous, short, flat, much broader than the eighth joint and more than twice its length: abdomen flat, nearly round, purple, bright coppery green at the base and at the tip, very much shorter and somewhat broader than the chest. Length of the body 1 line; of the wings 2 lines.

England. In the collection of Mr. Dale.

Entedon Philiscus, fem. Cyaneo-viridis, abdomine cupreo-purpureo, basi apiceque viridi, antennis nigris, pedibus viridibus, genubus tarsisque fulvis, proalæ cuique macula magna fusca.

Head and chest convex, thickly and finely shagreened, dark greenish blue: head hardly broader than the chest: eyes and eyelets dark red: feelers black, clavate, much shorter than the chest; first joint long, slender, green; second cup-shaped; the following joints successively decreasing in length; club conical, much longer than the preceding joint: chest elliptical, rather short: fore-chest very short, but distinct; its length about one-sixth of its breadth: shield of the mid-chest short and broad; its length about half its breadth; sutures of the parapsides indistinct; axillæ parted by full one-third of the breadth of the chest; scutcheon large, nearly short, oval: hind-chest declining, transverse, rather short, almost smooth, with a ridge along the middle and a rim on each side: petiole very short: abdomen short-elliptical, smooth, shining and dark bronze-purple, green at the tip, bright green at the base, scarcely keeled beneath, hardly narrower but much shorter than the chest; metapodeon occupying rather less than one-third of the back; octoon and all the following segments of moderate and nearly equal size: legs green; knees and feet tawny; tips of the latter and the whole of the fore-feet piceous: wings colourless, broad; a very large pale brown spot occupying nearly the whole of the disc of each fore-wing; veins brown; ulna longer than the humerus; radius very short, not more than one-tenth of the length of the ulna; cubitus also very short, but a little longer than the radius; brand very small. Length of the body 1 line; of the wings 2 lines.

Var. β. Chest coppery: hind-chest varied with green: abdomen bronze at the tip, varied with copper-colour at the base.

England. In the collection of Mr. Dale.