

which was especially rich in *Hymenoptera*, particularly in the family of bees, some of which were very singular.

Mr. Evans exhibited a drawing of a caterpillar of *Zeuzera Æsculi*, and part of a young tree which it had destroyed.

Mr. E. Doubleday brought for distribution amongst the members a large number of North American *Coleoptera*. He also exhibited portions of his collection of American *Lepidoptera*, consisting of an entire series of the genus *Polyommatus* (5 species), a new species of *Colias*, two species of *Terias* hitherto confounded together, and a singular specimen of *Saturnia Promethea*, having the antennæ and body of the male, and wings of the form and colour of those of the female.

Dr. Becker of Wiesbaden exhibited portions of his collection of German *Lepidoptera*, each species being preserved in a small case with the top and bottom of glass,—a mode much adopted in Germany.

The following memoirs were read:—

Observations on the *Coleoptera* of Port Essington, in Australia, with descriptions of the following new species. By the Rev. F. W. Hope, F.R.S., &c.

#### LAMELLICORNES.

*Bolboceras Kirbii*, Bainbridge ♂. *Castaneus*, capite anticè clypeo emarginato, posticè cornu erecto apice acuto; thorace anticè et posticè excavato, cornu utrinque erecto valido, suprâ denticulato, elytris concoloribus; corpore infrâ castaneo, thorace pedibusque flavo-hirsutis. Long. lin. 10, lat. lin.  $6\frac{1}{2}$ .

*Bolboceras neglectus*, Hope ♀. *Affinis* Bol. Latreillii, at minor. *Castaneus*, capitis clypeo emarginato, medio lineâ irregulari elevato, posticè cornuto, cornu autem apice fisso bidentato; thorace anticè abruptè truncato, posticè convexo varioloso punctis sparsim instructo; elytris striato-punctatis, corpore subtùs flavis capillis instructo. Long. lin.  $8\frac{1}{2}$ , lat. lin. 5.

*Bolboceras rotundatus*, Hope ♀. *Castaneus*, clypeo integro, capite anticè excavato, medio lineâ irregulari elevato conspicuo, posticèque bidentato seu tuberculis binis instructo; thorace convexo glabro punctis aliquot in medio vix conspicuis; elytris striato-punctatis rotundatis piceo-castaneis, pedibus pallidioribus et pilosis. Long. lin.  $3\frac{1}{4}$ , lat. lin. 2.

*Bolboceras rubescens*, Hope. *Rubro-piceus nitidus*, clypeo integro, capite lineâ irregulari instructo; thorace convexo glabro, fossulâ rotundatâ utrinque fortiter impressâ; elytris castaneis, pedibus concoloribus. Long. lin.  $2\frac{1}{2}$ , lat. lin.  $1\frac{1}{4}$ .

*Onthophagus 4-dentatus*, Hope ♂. *Affinis* Onth. Capellæ, Kirb., at major. *Niger*, capite ferè trigono, clypeo emarginato, thorace anticè excavato, punctato quadridentato, dentibus mediis majoribus prominentibus, lateralibus minoribus seu tuberculatis; elytris striatis, spatio inter strias subtilissimè punctulato, pedibus antennisque flavo-ciliatis. Long. lin.  $6\frac{1}{2}$ , lat. lin. 4.

♀. *Fœmina differt thorace integro haud dentato, angulis anticis thoracis prominentibus et acutis.*

*Onthophagus Erichsoni*. *Niger, capite ferè trigono, tuberculo utrinque ante oculos posito; thorace anticè valdè excavato, posticè convexo cornu medio lato antrorsum extenso; elytris striato-punctatis, pedibus, funiculoque antennarum piceis, capitulo flavescente; pedum anteriorum tibiis 3-dentatis, tarsis aurantiis capillis ob-sitis*. Long. lin.  $4\frac{1}{4}$ , lat. lin.  $2\frac{1}{4}$ .

This insect will at some future time be considered as the type of a distinct genus.

*Onthophagus picipennis*, Hope. *Piceus, thorace trigono, capite ante oculos furcato, thorace antrorsum lined elevatâ conspicuo, punctulato; elytris nigris nitidis, corpore infrâ concolori, pedibus rubro-piceis*. Long. lin.  $4\frac{1}{4}$ , lat. lin. 2.

This species I have formerly received from Melville Island, and it is evidently the same as that taken at Port Essington.

*Onthophagus glabratus*, Hope. *Niger, capite integro, parùm excavato et subrugoso; thorace lævi sub lente subtilissimè punctato, elytris striato-punctatis, corpore infrâ nigro, antennis tibiis tarsisque piceis et rufo-ciliatis*. Long. lin. 5, lat. lin.  $2\frac{1}{2}$ .

This species varies greatly in magnitude and in colouring: several specimens are evidently immature.

*Onthophagus discolor*. *Viridi-æneus clavâ antennarum flavescenti, capite integro anticè excavato, posticè convexo, lineis binis elevatis transversis, und mediâ, alterâ inter oculos positâ; thorace viridi, nitido sub lente punctulato; elytris atro-viridibus, striato-punctatis, punctis fortiter impressis, corpore infrâ concolori*. Long. lin. 3, lat. lin.  $1\frac{1}{2}$ .

The above species of *Onthophagus* are all from Port Essington; and I may here mention that there are in my collection twenty-four species from other parts of New Holland which have hitherto remained undescribed.

*Tessarodon piceum*, Hope. *Affine Scarabæo Novæ Hollandiæ, Fab. Piceum, capite bituberculato, thorace inermi punctulato elytrisque striato-punctatis et subscabrosis; corpore infrâ rufo-piceo, pedibus ciliatis*. Long. lin.  $2\frac{1}{4}$ , lat. lin.  $1\frac{1}{2}$ .

This appears to be an insect closely allied to the *Novæ Hollandiæ* of Fabricius, from which it differs in several points.

*Copris glabricollis*, Hope. *Niger, capite ferè trigono, parùm emarginato vix subrugoso, thorace lævi nitido, posticè lineâ transversâ punctorum satis notato, elytris striato-punctatis, punctis fortiter impressis: corpore infrâ nigro capitulo antennarum flavescente, funiculo autem et tibiis rufo-ciliatis*. Long. lin. 5, lat. lin.  $2\frac{1}{2}$ .

True *Copris* in New Holland are rare; from Melville Island I possess three species, which I have named *steriocerus*, *corniger* and *insularis*. The insect described above is an additional one. They are all remarkable for having the punctures apparent on each side of the elytra, and therefore are closely allied to several of the African *Copridæ*, such as *C. Orion* of De Jean, and also to *Copris Bengalensis* of Hope.

*Mæchidius rufus*, Hope. *Rufus, capite parùm emarginato subreflexo, thorace ferè semicirculari, lateribus extrorsum convexis, an-*

*gulis posticis vix rectangulatis; elytris capite cum thorace duplo longioribus, striato-punctatis et subgranulatis; corpore infra rufo, pedibus concoloribus.* Long. lin.  $2\frac{1}{4}$ , lat. lin.  $1\frac{1}{4}$ .

## PHENOGNATHUS, Hope, n. g.

*Pachypo affine pedibus posticis longissimis. Caput in medio cornutum, labrum porrectum, conicum, mandibulæ exsertæ, antennæ 9-articulatæ. Maxillæ lobis minutissimis. Prothorax anticè subretusus. Elytra conica posticè valdè attenuata.*

*Phenognatha Erichsoni, Hope. Castanea, capite unicorni, cornu nigro, posticè flavo tomentoso; thorace punctato, margine omnium ciliato; elytris ad basin castaneis, posticè nigris et striato-punctatis, punctis quasi erosis; corpore infra piloso, pedibus concoloribus et auricomatis.* Long. lin. 3, lat. lin.  $2\frac{1}{2}$ .

Named in honour of Erichson, who has figured some singular genera allied to *Pachypus*, as well as to the above genus.

*Sericesthis Gouldii, Hope. Affinis S. abdominali, Hope, at differt Castaneo-pruinosa, capite anticè excavato, posticè convexo; thorace undique lined elevatâ circumdato lateribus flavo-ciliatis. Elytris posticè rotundatis ultra medium incrassatis, striato-punctatis, striis parum impressis, disco sparsim punctulato; podice trigono et declivo; corpore infra concolori pectore pedibus flavis capillis longis obsitis, femoribus segmentisque abdominis rubropiceis nitidis.* Long. lin. 11, lat. lin.  $5\frac{1}{2}$ .

The above insect is one of the largest species of my acquaintance; more than forty species have fallen under my notice; about thirty-five are in my collection. They would afford ample materials for a monograph. In bloom and colouring they resemble *Serica*, and to that genus they are certainly allied. Two other species were received from Port Essington with the above.

*Liparetra nigricollis, Hope. Atra, capite anticè excavato, thorace convexo, nigro, elytris striato-punctatis piceis, pedibus concoloribus, pectore flavo-tomentoso.* Long. lin. 3, lat. lin.  $1\frac{1}{2}$ .

The present insect belongs to a genus of the family of the *Sericidæ*; it is rich in species, as my cabinet contains nearly twenty. There are some few other *Lamellicornes* in Mr. Gould's collection, from Port Essington, but they are in too imperfect a state to describe.

## GEODEPHAGA.

*Megacephala Australasiæ, Hope. Flava, antennis palpisque luteis, capite viridi; maxillis concoloribus, apicibus nigricantibus. Thorace æneo-viridi, anticè posticèque constricto, linedque longitudinali fortiter impresso; elytris flavo-marginatis maculâ anchorali magnâ notatâ; corpore infra viridi ternis segmentis antepenultimis piceis, apicali autem flavo, pedibusque concoloribus.* Long. lin.  $7\frac{1}{2}$ , lat. lin.  $2\frac{1}{2}$ .

This is the first instance, I believe, of a *Megacephala* being described as inhabiting New Holland: apparently it varies considerably in magnitude.

*Cicindela Ioscelis, Hope. Atro-ænea, capite æneo fronte albedo,*  
*Ann. & Mag. N. Hist. Vol. ix. 2 F*

*antennis violaceis; thorace bronzeo ferè bilobato, posticè constricto, elytris nigricantibus, lateribus externè trilunatis, maculis albidis notatis, septem punctis viridibus in singulo elytrorum ferè ad suturam positis; corpore infrà violaceo, femoribus, tibiis tarsisque concoloribus, tibiis autem ad basin flavo-maculatis.* Long. lin. 3, lat. lin.  $1\frac{1}{4}$ .

The above elegant insect appears to be a form differing from any yet received from New Holland.

*Carenum Smaragdulum*, Hope. *Viride, capite nigro, foveisque binis impresso, thorace virescenti semicirculari, margine omni elevatà; elytris late viridibus glabris nitidis, marginibus externis elevatis et auratis; corpore infrà piceo lateribus aeneo-tinctis, pedibus concoloribus.* Long. lin. 9, lat. lin.  $2\frac{1}{4}$ .

This beautiful species I received lately from Western Australia, and now describe it, as it is apparently quite unknown. It is probable that *Carenum* will be found to be peculiar to New Holland. No true *Scarites* of my acquaintance is of any colour but black or brown.

*Eutomus megacephalus*, Hope. *Cylindricus, niger, nitidus, capite maximo pronoto viridi, elytris lævibus cupreo-viridibus, tibiis anticis dente unico apicali externo.* Long. lin. 8.

*Ænigma* (Newm.) cyanipenne, Hope. *Atro-piceum, capite nigro punctulato, antennis tomentosis, quatuor primis articulis atris, reliquis fuscis; thorace cordato, anticè posticèque truncato, disco punctulato; elytris cyaneis, striato-punctatis, spatii, inter strias punctulatis; corpore infrà piceo, pedibus concoloribus.* Long. lin. 7, lat. lin.  $1\frac{1}{2}$ .

This species is the second that has hitherto been described. I consider it as a true *Helluo*.

*Ænigma unicolor*, Hope. *Fusco-piceum, antennis tomentosis, thorace cordato punctulato, elytris subcostatis et striato-punctatis, corporeque infrà concolori.* Long. lin. 7, lat. lin.  $1\frac{1}{2}$ .

As this species is also a native of New Holland, and is unknown to entomologists, it is here described, although it was not received from Port Essington.

#### CYPHOSOMA\*, n. g.

*Antennæ 11-articulatæ, articulo 1<sup>mo</sup> crasso, reliquis æqualibus. Clypeus protensus submarginatus. Caput subquadratum fossulis binis inter oculos fortiter impressis. Thorax lateribus rotundatis, angulis anticis prominentibus. Elytra gibba. Palpi maxillares, articulo 1<sup>mo</sup> brevi, 2<sup>do</sup> triplo longiori apice subincrassato, 3<sup>tio</sup> cylindrico apice truncato.*

*Cyphosoma unicolor.* *Capite nigro; antennis articulis 4, primis piceis, reliquis subtomentosis; thorace concolori, marginibus lateribus elevatis, lineâ mediâ longitudinali anticè interruptâ, fossulâ utrinque fortiter impressâ; scutello brevi; elytris gibbis, sulcatis; pedibus robustis, tibiisque subincurvis.* Long. lin.  $8\frac{1}{2}$ , lat. lin. 3.

*Catascopus Australasiæ*, Hope. *Viridis, antennis fuscis; thorace*

\* κύφος, gibbus, et σῆμα, corpus.

*hexagono lateribus marginatis concolori; elytris striato-punctatis; corpore infrà piceo, pedibus concoloribus.* Long. lin.  $4\frac{1}{2}$ , lat. lin.  $1\frac{1}{2}$ .

This, I believe, is the first time that *Catascopus* has occurred in New Holland, and it is singular that the form of it approaches the species of Africa much more than those of India.

*Gnathaphanus* (M. L.?) *Licinoides*, Hope. *Niger, thorace fossulis postea fortiter impressis, elytris sulcato-striatis, punctisque excavatis, corpore infrà atro nitido, tarsi infrà fusco-spongiosis.* Long. lin.  $5\frac{3}{4}$ , lat. lin.  $1\frac{3}{4}$ .

I have little hesitation in regarding this insect as a true *Gnathaphanus*; it has not hitherto been found but in the island of Java.

#### CYRTODERUS\*, n. g.

*Antennæ 11-articulatæ, articulo 1<sup>mo</sup> quatuor proximis æquali, cylindrico, apice incrassato, subtruncato, reliquis ferè æqualibus. Mandibulæ apice subincurvatæ. Labrum quadratum medio productum subciliatum. Mentum transversum. Palpi maxillares ultimo articulo securiformi, obliquè truncato. Palpi labiales ultimo articulo ferè trigono, valdè securiformi. Thorax subquadratus angulis posticis lateribusque rotundatis. Corpus gibbosum. Pedes robusti, tibiis spinosis.*

*Cyrtoderus Australasiæ. Niger, antennarum articulis tribus primis piceis, reliquis pubescentibus; thorace lined mediâ longitudinali, anticè posticèque interruptâ, fossulâque utrinque retrorsum fortiter impressâ; scutello parvo vix distincto; elytris striatis interstitiis elevatis, marginatis, serie tuberculorum ad margines externos approximata; corpore subtùs nigro, tibiis spinosis.* Long. lin. 8, lat. lin.  $2\frac{1}{2}$ .

#### HYDRADEPHAGA.

*Cybister insularis, Hope. Niger, capite integro convexo, oculis albis, thorace sub lente subtilissime punctato, marginibus exterioribus flavescens; elytris nigris flavo-marginatis, disco binis lineis punctorum haud fortiter impresso; corpore infrà nigro nitido, pedibus quatuor anticis flavo-ornatis, posticis atro-piceis.* Long. lin. 8, lat. lin.  $4\frac{1}{2}$ .

This is the smallest species known, being scarcely larger than a *Hydaticus*.

*Colymbetes monostigma, Hope. Ater, nitidus, elytris uno aurantio stigmatè ornatis, corpore infrà nigro, pedibus rufo-piceis.* Long. lin.  $3\frac{1}{4}$ , lat. lin. 2.

*Hydroporus collaris, Hope. Nigro-piceus punctatus; thorace medio convexo, lateribus utrinque fortiter depressis; elytris subtilissime punctulatis piceis, corpore infrà pedibusque concoloribus.* Long. lin.  $1\frac{3}{4}$ , lat. lin.  $\frac{3}{4}$ .

*Dineutes (MacLeay) Gouldii, Hope. Nigro-aneus nitidus, thoracisque elytrorumque margine flavo, elytris trispinosis, spinâ mediâ*

\* *Κυρτός* and *δέφν*. I know not where to place this genus; it seems allied to *Zabrus*, and unites in itself the characters of other families. I have also received it from Melville Island.

- majori, binisque lateralibus minoribus; toto corpore infra luteo.*  
 Long. lin.  $3\frac{1}{2}$ , lat. lin.  $1\frac{1}{2}$ .
- Gyrinus Iridis, Hope. *Atro-aneus, elytris abruptè truncatis, striatis, purpurascens; corpore infra æneo, pedibus piceis.*  
 Long. lin.  $3\frac{1}{2}$ , lat. lin.  $1\frac{1}{2}$ .
- Hydrobius marginicollis, Hope. *Niger, lævis margine postico thoracis rufo-piceo, corpore infra nigro et pubescenti segmentis abdominis utrinque maculâ rufescente notatis, pedibus piceis.*  
 Long. lin.  $5\frac{1}{2}$ , lat. lin.  $2\frac{1}{2}$ .
- Hydrobius assimilis. *Affinis præcedenti, at minor, toto corpore suprâ nigro; elytris sub forti lente subtilissime punctulatis; corpore infra nigro tomentoso, palpis tarsisque rufo-piceis, femoribus tibiis nigricantibus.* Long. lin. 5, lat. lin.  $2\frac{1}{4}$ .

## STERNOXI.

- Agrypnus grandis, Hope. *Niger, capite ferè quadrato auricomato, angulis anticis rotundatis; thorace convexo disco lateribus parum depressis; elytris atris striato-punctatis, corpore infra concolori, pedibus piceis et auro-tomentosis.* Long. lin. 15, lat. lin. 5.

The above is the only species of large dimensions; there are also seven others from Port Essington, but as they are not remarkable in any respect, and are allied to various undescribed species, I pass them by.

## LONGICORNES.

- Mallodon insulare, Hope. *Castaneum, capite atro, antennis piceis, mandibulis denticulatis; thorace transversè quadrato, lateribus valdè serratis, disco varioloso punctato; elytris castaneis quibusdam lineis parum elevatis distinctis, corpore infra rufo-piceo, pedibus atrioribus.* Long. lin. 21, lat. lin.  $6\frac{1}{4}$ .

- Plocæderus Australasiæ, Hope. *Piceus, pubescentid griseâ tectus; thorace constricto rugoso; elytris bispinosis griseo-piceoque colore irroratis; corpore infra griseo-tomentoso, pedibus concoloribus tarsisque infra flavo-spongiosis.* Long. lin.  $10\frac{1}{2}$ , lat. lin.  $2\frac{1}{2}$ .

There is one remarkable character\* apparently peculiar to this species; the male insect has the third and fourth joints of the antennæ subglobose: I can scarcely regard the appearance as a sexual distinction.

- Monohammus mixtus, Hope. *Cænosus, colore nigrescenti marmoratus; thorace spinoso punctis sparsim notatis; elytris bispinosis concoloribus; corpore infra grisescenti, tarsis suprâ et infra auricomatis.* Long. lin. 11, lat. lin.  $3\frac{1}{2}$ .

- Stenochorus vicinus, Hope. *Nigro-piceus, antennis pallidioribus, thorace tuberculato, spinis lateralibus vix distinctis; elytris piceis disco flavis maculis notato, guttâ flavâ ovali ante apicem positâ; corpore infra fusco-griseo, pedibus piceis, femoribus incrassatis.*  
 Long. lin. 9, lat. lin. 2.

- Stenochorus cruciger, Hope. *Rufo-piceus, antennis pallidioribus, thorace tuberculato lateralibus spinis subacutis; elytris piceis disco in medio cruce flavâ notatis, apicibus concoloribus; corpore infra rufo-piceo.* Long. lin. 7, lat. lin.  $1\frac{1}{2}$ .

*Xystrocera Australasiæ*, Hope; *affinis* Xys. *Indicæ*, Hope. *Rufescens*, thorace globoso, lined mediâ longitudinali vix notato; elytris rufo-castaneis viridi-æneis, vittâ fortiter punctatâ, femoribus atro-piceis. Long. lin. 11, lat. lin.  $2\frac{1}{2}$ .

It is with hesitation that I give this insect as distinct from one received from Singapore; in sculpture, and in several minor points, it certainly differs from *Indica*, and the genus is now recorded for the first time as occurring in New Holland: it is singular that I have also lately received from Sierra Leone another species intimately allied to both of them.

*Callidium Essingtoni* (*Affine* Callid. obscuro, Fab.). *Brunneum*, thorace lined longitudinali parum elevatâ, tuberculisque binis ferè mediis insignito; elytris vittâ albâ, tuberculis variis per discum aspersis; corpore infrâ griseo, pedibus pallidis. Long. lin.  $4\frac{1}{2}$ , lat. lin.  $1\frac{1}{4}$ .

There is a third *Callidium* closely allied to the above, from the vicinity of Swan River.

*Rhytiphora* (Serville) *piperitia*. *Squamosa*, nigro flavoque colore variegata; antennis plumosis articulis apicibus rufo-piceis; thorace punctato; elytris ad apicem abruptè truncatis, ad basin tuberculis majoribus nigris, aliis per totum discum aspersis; corpore infrâ concolori. Long. lin. 8, lat. lin.  $2\frac{1}{4}$ .

This genus seems peculiar to New Holland; more than twenty species have fallen under my notice.

*Rhytiphora tuberculata*. *Grisea*, antennis plumosis, thorace acutis spinis insignito, elytris bispinosis, ad humeros crebris tuberculis obsitis, disco in medio albo fuscoque colore notato; corpore infrâ albido piloso. Long. lin.  $7\frac{1}{2}$ , lat. lin.  $2\frac{3}{4}$ .

*Rhytiphora detrita*, Hope. *Picea*, capite flavo-piloso, antennis plumosis, thorace 2-tuberculato, elytris humeris prominentibus, dente elevato in singulo ferè ad basin posito; per totum discum suprâ color piceus, lanugoque flava prævalet; corpore infrâ concolori flavisque capillis obsito. Long. lin. 6, lat. lin.  $1\frac{1}{4}$ .

Here three new species of *Lamia* ought to be introduced; unfortunately they are so changed in appearance by grease, that it is well to pass them over.

*Rhagiomorpha* (Newm.?) *unicolor*, Hope. *Fusco-brunnea*, antennis flavescens; toto corpore suprâ et infrâ fusco-brunneo et piloso, pedibus subflavis. Long. lin. 9, lat. lin. 2.

*Rhagiomorpha plagiata*, Hope. *Grisea*, antennis flavis articulis ultimis crassioribus; thorace griseo-piloso; elytris concoloribus, punctulatis, maculâ magnâ flavâ inter humeros positâ, secundâ minore rotundatâ haud ad apicem positâ; corpore infrâ griseis capillis obsito. Long. lin. 7, lat. lin.  $1\frac{3}{4}$ .

*Hathlia lacteola*, Hope. *Alba*, antennis rufescentibus et pilosis; thorace lined longitudinali piced notato punctato; elytris cretaceis ad basin punctatis apicibus subacutis, suturâ sensim elevatâ; corpore infrâ griseo-testaceo, pedibus concoloribus. Long. lin. 6, lat. lin.  $1\frac{3}{4}$ .

*Hathlia 4-lineata*, Hope. *Rubro-picea*, antennis concoloribus; tho-

*race tribus lineis albidis notato, mediâ latiori, lateralibus minoribus; elytris 4-lineatis, lineis binis albidis externis, binisque suturalibus; corpore infrâ piceo lanugine albida asperso, pedibus concoloribus.*  
Long. lin. 5, lat. lin.  $1\frac{1}{2}$ .

*Hathlia lineella*, Hope. *Brunnea albida pubescentia tecta; antennis rufescentibus; thorace mediâ lineâ piceâ elevata, lineisque albidis utrinque notato; elytris apicibus subacuminatis, lineisque quatuor albidis, parum distinctis; corpore infrâ concolori.* Long. lin. 4, lat. lin. 1.

*Hathlia melanocephala*, Hope. *Albida, antennis griseis, articulis nigro-maculatis; capite nigro; thorace anticè concolori, posticè albo; elytris apice acuminatis, striato-punctatis, lineis albidis insignita; corpore infrâ griseo, pedibus concoloribus.* Long. lin.  $3\frac{1}{2}$ , lat. lin.  $\frac{3}{4}$ .

The last four insects belong to the genus *Hathlia* of De Jean. I am doubtful if the characters are yet published, and of course if they are not, the name in future may be changed by the describer.

Having finished the *Longicornes*, I leave the remaining species from Port Essington for a continuation of the present paper.

#### MICROSCOPICAL SOCIETY OF LONDON.

At a meeting of the Microscopical Society held April 27th, J. S. Bowerbank, Esq., in the Chair, a paper was read by G. Busk, Esq., entitled, "Observations on some Infusoria contained in water from Africa." The water was procured from two localities, and contained thirteen species of Infusoria, all of which, except three species, were common in ordinary water; the other three, which were of the genus *Eunotia*, were precisely similar to those discovered by Ehrenberg as fossils in the Bergmehl of Sweden; but lately he has detected them in the recent state in earth from the neighbourhood of Labrador; thus having two localities of very different conditions as to climate for the same species of Infusoria, which the author states would tend to prove that no certainty as to climate could be deduced from the occurrence of fossil Infusoria.

Another paper was also read by the same author, "On the young of a species of *Izodes* from Brazil." These insects, a short account of which was given at the last meeting, were sent from Rio Janeiro in a letter, and were still alive, although upwards of sixty days had been spent on the passage over; they are called by the natives Carapato, and are highly injurious to cattle. The author described minutely their suctorial apparatus and their general organization, and concluded that they were gifted with extraordinary powers of vitality, and imbibe their food through two suctorial tubes contained in the mandibles.

The Secretary read a letter from Dr. Southby of Bulford House\*, near Amesbury, Wilts, which had been handed to him by Mr. R. Taylor; it contained three different samples of disintegrated chalk from Salisbury Plain; portions of each had been given to some mem-

\* See p. 437 of the present Number.—Ed.