

**BULLETIN**  
OF  
**ENTOMOLOGICAL RESEARCH.**

ISSUED BY THE IMPERIAL  
BUREAU OF ENTOMOLOGY.

EDITOR: THE DIRECTOR.

---

**VOL. XIX**

---

LONDON:  
THE IMPERIAL BUREAU OF ENTOMOLOGY,  
41, QUEEN'S GATE, S.W.7.  
1928-29.

# IMPERIAL BUREAU OF ENTOMOLOGY.

## HONORARY COMMITTEE OF MANAGEMENT.

**THE EARL BUXTON, G.C.M.G.,** *Chairman.*

- Dr. W. HORNER ANDREWS, M.R.C.V.S., Director, Veterinary Laboratory, Ministry of Agriculture and Fisheries.
- Major E. E. AUSTEN, D.S.O., Keeper, Entomological Department, British Museum (Natural History).
- Dr. A. G. BAGSHAWE, C.M.G., Director, Bureau of Hygiene and Tropical Diseases.
- Mr. C. E. BAINES, India Office.
- Dr. ANDREW BALFOUR, C.B., C.M.G., Director, London School of Hygiene and Tropical Medicine.
- Major-General Sir DAVID BRUCE, K.C.B., F.R.S., Chairman of the Governing Body, Lister Institute.
- Dr. P. A. BUXTON, University Reader in Medical Entomology, London School of Hygiene and Tropical Medicine.
- Mr. J. C. F. FRYER, Director, Pathological Laboratory, Ministry of Agriculture and Fisheries.
- Sir SIDNEY F. HARMER, K.B.E., F.R.S.
- Dr. R. STEWART MACDOUGALL, Reader in Agricultural Entomology, Edinburgh University.
- Sir JOHN McFADYEAN, late Principal, Royal Veterinary College, Camden Town.
- Sir DANIEL MORRIS, K.C.M.G., late Adviser to the Colonial Office in Tropical Agriculture.
- Mr. J. MURRAY, C.M.G., Foreign Office.
- Emeritus Professor R. NEWSTEAD, F.R.S., The University of Liverpool.
- Professor G. H. F. NUTTALL, F.R.S., Quick Professor of Protozoology, Cambridge.
- Mr. A. C. C. PARKINSON, O.B.E., Colonial Office.
- Professor E. B. POULTON, F.R.S., Hope Professor of Zoology, Oxford.
- Lieutenant-Colonel Sir DAVID PRAIN, C.M.G., C.I.E., F.R.S.
- Lieutenant-Colonel R. ECCLES SNOWDEN, Agent-General for Tasmania.
- Dr. A. T. STANTON, Chief Medical Adviser to the Secretary of State for the Colonies.
- Mr. F. A. STOCKDALE, C.B.E., Asst. Agricultural Adviser, Colonial Office.
- Mr. F. V. THEOBALD, South Eastern Agricultural College, Wye.
- Mr. C. WARBURTON, Zoologist to the Royal Agricultural Society of England.
- The Chief Entomologist in each of the Self-governing Dominions is *ex officio* a member of the Committee.

### SECRETARY.

Mr. G. F. SEEL (Colonial Office).

### DIRECTOR.

Dr. GUY A. K. MARSHALL, C.M.G., F.R.S.

### ASSISTANT DIRECTOR.

Dr. S. A. NEAVE.

### SUPERINTENDENT OF FARNHAM HOUSE LABORATORY.

Dr. W. R. THOMPSON.

*Head Office.*—British Museum (Natural History), Cromwell Road, London, S.W.7.

*Publication Office.*—41, Queen's Gate, London, S.W.7.

# CONTENTS.

## ORIGINAL ARTICLES.

	PAGE
BARNES, H. F. The British Gall Midges of Peas ( <i>illustrated</i> ) ... ..	183
BOX, H. E. Observations upon <i>Lixophaga diatraeae</i> , Townsend, a Tachinid Parasite of <i>Diatraea saccharalis</i> , Fabr., in Porto Rico ( <i>illustrated</i> )	1
CAMERON, M. A new Staphylinid Beetle preying on Red Spider in Mauritius ...	65
CHINA, W. E. Two new Species of <i>Cicadulina</i> , China (Homoptera, Jassidae) from the Gambia, West Africa ( <i>illustrated</i> )... ..	61
A new Species of <i>Dasynus</i> , Burm., injurious to Pepper in Java (Heteroptera, Coreidae) ( <i>illustrated</i> ) ... ..	253
CHRYSTAL, R. N. The <i>Sirex</i> Wood-wasps and their Importance in Forestry ( <i>illustrated</i> )	219
CHRYSTAL, R. N., & MYERS, J. G. Natural Enemies of <i>Sirex cyaneus</i> , Fabr., in England and their Life-history ( <i>illustrated</i> ) ... ..	67
CLEARE, L. D., JR. A Method for the Rearing of Egg Parasites of the Sugar-cane Moth- borers ( <i>illustrated</i> ) ... ..	31
CONNAL, S. L. M. S. A Note on the Larva and Pupa of <i>Taeniorhynchus (Mansonioides)</i> <i>africanus</i> (Dipt., Culicidae) ( <i>illustrated</i> ) ... ..	293
DAVIES, W. M. Notes on the Feeding Habits of <i>Habrosyne derasa</i> , L. (Lepidoptera)	267
DEKHTIAREV, N. S. Insects injurious to Sunflower in Ukraine ( <i>illustrated</i> ) ... ..	411
DE MEILLON, B. The early Stages and Male Hypopygium of <i>Anopheles argenteolobatus</i> , Gough ( <i>illustrated</i> ) ... ..	401
DUKE, H. L., HALL, G. N., & HADDON, E. C. An Examination of the Efficacy of Arsenical Solutions in the Reclamation of Tsetse Areas ... ..	7
EVANS, J. W. A new Species of <i>Nysius</i> (Hem., Lygaeidae) from Australia ( <i>illus- trated</i> ) ... ..	351
FERRIÈRE, C. Notes on some Chalcid Parasites of Lac Insects ( <i>illustrated</i> ). ...	171
GAHAN, A. B. Some reared Parasitic Hymenoptera from the Sudan ... ..	255
GATER, B. A. R. An improved Method of mounting Mosquito Larvae... ..	367
GREEN, E. E. Further Observations on <i>Beesonia dipteroearpi</i> , Green ( <i>illustrated</i> ) Some Coccidae collected by Dr. J. G. Myers in New Zealand ( <i>illus- trated</i> ) ... ..	205 369
HALL, W. J. Observations on the Coccidae of Southern Rhodesia.—I ( <i>illustrated</i> )	271
HAMLIN-HARRIS, R. Notes on the Breeding-places of <i>Aedes (Finlaya) notoscriptus</i> , Skuse, in Queensland ... ..	405

HODSON, W. E. H.		
The Bionomics of the Bulb Mite, <i>Rhizoglyphus echinopus</i> , Fumouze & Robin ( <i>illustrated</i> )	... ..	187
JOUBERT, C. J.		
<i>Pseudococcus gahani</i> , Green, in South Africa	... ..	209
LESTER, H. M. O., & LLOYD, LI.		
Notes on the Process of Digestion in Tsetse-flies ( <i>illustrated</i> )	... ..	39
MAHDIHASSAN, S.		
Pupal Parasites of <i>Holcocera pulverea</i> , Meyr. (Lep.), an Enemy of the Lac Insect ( <i>illustrated</i> )	... ..	355
MARSHALL, G. A. K.		
New Curculionidae (Col.) from Cultivated Plants ( <i>illustrated</i> )	... ..	391
MASSE, A. M.		
An Eriophyid Mite on Apple ( <i>illustrated</i> )	... ..	203
Two Species of Gall-mites (Eriophyidae) of the Lilac ( <i>Syringa vulgaris</i> , L.) new to Britain ( <i>illustrated</i> )	... ..	259
MITROFANOVA, J.		
On the Growth of the Head in the Larva of <i>Anopheles maculipennis</i> , Meig. ( <i>illustrated</i> )	... ..	361
MOUTIA, A.		
Surra in Mauritius and its Principal Vector, <i>Stomoxys nigra</i>	... ..	211
MYERS, J. B.		
The Incidence of a Fungal Parasite of Scale-insects in New Zealand...	181	
Further Biological Notes on <i>Rhyssa</i> and <i>Ibalia</i> , parasitising <i>Sirex cyaneus</i> , Fabr.	... ..	317
Further Notes on <i>Alysia manducator</i> and other Parasites (Hym.) of Muscoid Flies	... ..	357
NEGI, P. S.		
A Contribution to the Life-history of the Lac Insect, <i>Laccifer (Tachardia) lacca</i> (Coccidae) ( <i>illustrated</i> )	... ..	327
OLDHAM, J. N.		
<i>Hieroxestis subcervinella</i> , Wlk., an Enemy of the Banana in the Canary Islands ( <i>illustrated</i> )	... ..	147
PEARSE, A. S.		
Fleas found on Rodents and Insectivores in Nigeria	... ..	167
RUTLEDGE, W.		
Tsetse-fly ( <i>Glossina morsitans</i> ) in the Koalib Hills, Nuba Mountains Province, Sudan ( <i>illustrated</i> )	... ..	309
SALT, G.		
A Study of <i>Colaspis hypochlora</i> , Lefèvre ( <i>illustrated</i> )...	... ..	295
SIMMONS, R. J.		
Notes on a Tsetse Belt in Western Uganda ( <i>illustrated</i> )	... ..	421
THEOBALD, F. V.		
Aphididae from Italian Somaliland and Eritrea ( <i>illustrated</i> )...	... ..	177
THOMPSON, W. R.		
On the Relative Value of Parasites and Predators in the Biological Control of Insect Pests	... ..	343
WATERSTON, J.		
A new Encyrtid (Hym., Chalcid.) bred from <i>Clastoptera</i> (Hom., Cercop.) ( <i>illustrated</i> )	... ..	249
WILKINSON, D. S.		
A Revision of the Indo-Australian Species of the Genus <i>Apanteles</i> (Hym., Bracon). Parts I & II ( <i>illustrated</i> )...	... ..	79, 109
Two new Parasites of <i>Tirathaba rufivena</i> , Walk., in Malaya...	... ..	201
New Parasitic Hymenoptera ( <i>illustrated</i> )	... ..	261

CONTENTS

VII

PAGE

MISCELLANEOUS.

Collections received	...	...	...	...	...	107, 217, 325, 435
----------------------	-----	-----	-----	-----	-----	--------------------

---

ERRATA.

---

- Page 75, line 26, for "*M. fractinervis*" read "*R. fractinervis*"  
 „ 115, line 18, page 119, line 30 and page 134, line 18, for "*B. van der Goot*"  
 read "*P. van der Goot*"  
 „ 135, line 23 and page 144, 14 lines from end, for "*medianalis*" read "*medinalis*"  
 „ 372, line 16, for "*zeylandica*" read "*zealandica*"  
 „ 373, 3rd line of legend for Fig. 4, for "*Newsteadi*" read "*Newsteadia*"  
 „ 377, line 2, for "*Hedycarpa*" read "*Hedycarya*"