

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

ISSUED BY THE IMPERIAL  
INSTITUTE OF ENTOMOLOGY.

EDITOR : THE DIRECTOR.

---

**VOL. 25.**

---

LONDON :  
THE IMPERIAL INSTITUTE OF ENTOMOLOGY,  
41, QUEEN'S GATE, S.W.7.  
1934.

# IMPERIAL INSTITUTE OF ENTOMOLOGY.

---

## Executive Council.

---

Sir CHARLES J. HOWELL THOMAS, K.C.B., K.C.M.G., *Chairman*, United Kingdom.

NEVILL L. WRIGHT, F.I.C., *Vice-Chairman*, New Zealand.

Lieut.-Colonel GEORGE P. VANIER, D.S.O., M.C., Canada.

F. L. McDOUGALL, C.M.G., Australia.

G. W. KLERCK, South Africa.

J. M. ADAMS, F.R.C.Sc. (I), Irish Free State.

Sir BHUPENDRA NATH MITRA, K.C.S.I., K.C.I.E., C.B.E., India.

B. F. WRIGHT, Southern Rhodesia.

R. V. VERNON, C.B., Colonies, Protectorates and Mandated Territories.

Sir DAVID CHADWICK, C.S.I., C.I.E., *Secretary*.

## Director.

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

## Assistant Director.

Dr. S. A. NEAVE, O.B.E.

## Assistant Director and Superintendent of Farnham House Laboratory.

Dr. W. R. THOMPSON, F.R.S.

---

*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
ANANTANARAYANAN, K. P. On the Bionomics of a Eulophid ( <i>Trichospilus pupivora</i> , Ferr.) a natural Enemy of the Coconut Caterpillar ( <i>Nephantis serinopa</i> , Meyr.) in South India ( <i>illustrated</i> ) ... ..	55
BRUG, S. L. Notes on Dutch East Indian Mosquitos ( <i>illustrated</i> ) ... ..	501
BUXTON, P. A. Further Studies upon Chemical Factors affecting the Breeding of <i>Anopheles</i> in Trinidad ... ..	491
BUXTON, P. A. & MELLANBY, K. The Measurement and Control of Humidity ( <i>illustrated</i> ) ... ..	171
CHINA, W. E. A new Species of Coreidae (Heteroptera) injurious to Coconut in the Solomon Islands ( <i>illustrated</i> ) ... ..	187
DARLING, R. C. M. The Solitary Phase of <i>Schistocerca gregaria</i> , Forsk., in North-Eastern Kordofan (Anglo-Egyptian Sudan) ( <i>illustrated</i> ) ... ..	63
FREEBORN, S. B. & ZIMMERMAN, E. C. The Males of <i>Leptoconops torrens</i> , Tns., and <i>L. kerteszi</i> , Kieff. ( <i>illustrated</i> ) ... ..	257
GARDNER, J. C. M. On some Coleopterous Larvae from Uganda ( <i>illustrated</i> ) ... ..	149
GLOVER, P. M. The Developmental Stages of <i>Bracon tachardiae</i> , Cam. (Hym.) ( <i>illustrated</i> ) ... ..	521
GOLDING, F. D. On the Ecology of Acrididae near Lake Chad ( <i>illustrated</i> ) ... ..	263
HODSON, W. E. H. The Bionomics of the Bulb-scale Mite, <i>Tarsonemus approximatus</i> , Banks, var. <i>narcissi</i> , Ewing (with an Appendix by W. C. Moore) ( <i>illustrated</i> ) ... ..	177
JACKSON, C. H. N. A Note on the Concentrations of Tsetse-flies ... ..	457
KRISHNA AYYAR, P. N. A very destructive Pest of Stored Products in South India, <i>Corcyra cephalonica</i> , Staint. (Lep.) ( <i>illustrated</i> ) ... ..	155
LEWIS, D. J. The Behaviour of the Larvae of Tsetse-flies before Pupation ( <i>illustrated</i> ) ... ..	195
LEWIS, E. A. Tsetse-flies in the Masai Reserve, Kenya Colony ( <i>illustrated</i> ) ... ..	439
MARSHALL, Sir G. A. K. New injurious Curculionidae (Col.) from Tanganyika ( <i>illustrated</i> ) ... ..	495
MICHELMORE, A. P. G. & ALLAN, W. Observations on the Phases of the Red-winged Locust in Northern Rhodesia ( <i>illustrated</i> ) ... ..	101

CONTENTS.

	PAGE
MILES, M. & MILES, H. W. Studies of the Willow-shoot Moth, <i>Depressaria conterminella</i> , Zell. ( <i>illustrated</i> ) ... .. .	47
MORRIS, K. R. S. The Bionomics and Importance of <i>Glossina longipalpis</i> , Wied., in the Gold Coast ( <i>illustrated</i> ) ... .. .	309
MOUTIA, L. A. The Sugar-cane Moth Borers in Mauitius ( <i>illustrated</i> ) ... .. .	33
MUNRO, H. K. A Review of the Species of the Sub-genus <i>Trirhithrum</i> , Bezzi (Try- petidae, Diptera) ( <i>illustrated</i> ) ... .. .	473
NEGI, P. S. The Alimentary Canal, its Appendages, Salivary Glands and the Nervous System of the adult Female Lac Insect, <i>Laccifer lacca</i> , Kerr (Coccidae) ( <i>illustrated</i> ) ... .. .	541
NICHOLSON, A. J. The Influence of Temperature on the Activity of Sheep Blow-flies ( <i>illustrated</i> ) ... .. .	85
NIKOL'SKAYA, M. List of Chalcid Flies (Hym.) reared in U.S.S.R. ( <i>illustrated</i> ) ... .. .	129
PAINE, R. W. The Introduction of <i>Megarhinus</i> Mosquitos into Fiji ( <i>illustrated</i> ) ... .. .	1
PARSONS, F. S. & ULLYETT, G. C. Investigations on the Control of the American and Red Bollworms of Cotton in S. Africa ( <i>illustrated</i> ) ... .. .	349
PEARSON, E. O. Preliminary Observations on Cotton Stainers and internal Boll Disease of Cotton in S. Africa ( <i>illustrated</i> ) ... .. .	383
POSPELOV, V. P. The Conditions of Sexual Maturation in the Migratory Locust ... .. .	337
ROSENBERG, H. T. The Biology and Distribution in France of the Larval Parasites of <i>Cydia pomonella</i> , L. ( <i>illustrated</i> ) ... .. .	201
RUBTZOV, I. A. Fertility and Climatic Adaptations in Siberian Grasshoppers ... .. .	339
SENIOR WHITE, R. Three Years Mosquito Control Work in Calcutta ( <i>illustrated</i> ) ... .. .	551
SWYNNERTON, C. F. M. Protection of Vegetation against Grass-Fires as a possible Solution for some Tsetse Problems ( <i>illustrated</i> ) ... .. .	415
TAYLOR, A. W. A Note on Mosquitos breeding in Tree-holes in Northern Nigeria ... .. .	191
THEODOR, O. Observations on the Hibernation of <i>Phlebotomus papatasi</i> (Dipt.) ... .. .	459

---

MISCELLANEOUS.

Collections received ... .. . 145, 305, 435, 597

## ERRATA.

---

- Page 66, line 4, for “ *C. farinosa* ” read “ *Maerua crassifolia* ”  
,, 67, line 19, for “ no drainage ” read “ no surface drainage ”  
,, 78, line 5, for “ 5 years ” read “ 20 years ”  
,, 78, line 6, for “ 20 years ” read “ 5 years ”  
,, 130, line 11, and p. 141, line 3, for “ *daplidicae* ” read “ *daplidice* ”  
,, 131, line 22, for “ *Phaenococcus* ” read “ *Phenacoccus* ”  
,, 134, line 18, and p. 141, line 9, for “ *oleaellus* ” read “ *oleellus* ”  
,, 135, line 28, & p. 139, line 4, for “ *Aleyodes* ” read “ *Aleiodes* ”  
,, 137, line 8, for “ *Phaenococcus* ” read “ *Phenacoccus* ”  
,, 137, line 42, for “ *asphondiliae* ” read “ *asphondyliae* ”  
,, 140, line 26, for “ *depressiella* ” read “ *depressella* ”  
,, 196, 8 lines from end, for “ *C. submorsitans* ” read “ *G. submorsitans* ”  
,, 232, line 31, for “ *Argyrotaxa* ” read “ *Argyrotoxa* ”  
,, 232, 3 lines from end, for “ *Crysoclista* ” read “ *Chrysoclista* ”  
,, 339, 7 lines from end and p. 342, line 17, for “ *Mecosthetus* ” read  
“ *Mecostethus* ”  
,, 429, line 34, for “ D. D. Burtt ” read “ B. D. Burtt ”

DATES OF PUBLICATION IN PARTS.

Part I	pp. 1-148	...	23 March 1934.
Part II	pp. 149-307	...	4 July 1934.
Part III	pp. 309-438	...	26 September 1934.
Part IV	pp. 439-600	...	14 December 1934.