

Vol. 32. Part 2.—pp. 93-174.

AUGUST, 1941.

# BULLETIN OF ENTOMOLOGICAL RESEARCH

LONDON

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

**Price 9s. net.**

All Rights Reserved.

# IMPERIAL INSTITUTE OF ENTOMOLOGY.

---

## EXECUTIVE COUNCIL.

---

- Dr. WILLIAM ALLEN, *Chairman*, Canada.  
SHAMALDHARI LALL, C.I.E., *Vice-Chairman*, India and Burma.  
Sir DONALD FERGUSSON, K.C.B., United Kingdom.  
F. L. McDUGALL, C.M.G., Australia.  
F. J. DU TOIT, Union of South Africa.  
NEVILL L. WRIGHT, F.I.C., D.I.C., New Zealand.  
J. M. ADAMS, F.R.C.Sc. (I), Eire.  
D. JAMES DAVIES, C.B.E., Newfoundland.  
B. F. WRIGHT, Southern Rhodesia.  
J. A. CALDER, C.M.G., Colonies, Protectorates and Mandated Territories.  
Sir DAVID CHADWICK, K.C.M.G., C.S.I., C.I.E., *Secretary*.

### Director and Editor.

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

### Assistant Director.

Dr. S. A. NEAVE, C.M.G., O.B.E.

### Assistant Director.

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.

# REVISTA DE ENTOMOLOGIA

An International Review of Entomology

An illustrated magazine published four times a year by **THOMAZ BORGMEIER, O.F.M.**, devoted to entomology, mainly of the neotropical fauna.

The volumes already published since 1931 comprise thousands of pages and contain articles by leading entomologists such as F. W. Edwards, W. Horn, E. Lindner, J. W. S. Macfie, E. Martini, A. da Costa Lima, F. Silvestri, C. Menozzi, A. Reichensperger, F. Santschi, J. D. Hood, etc., with a bibliography of the current literature (economic and non-economic) of the neotropical fauna.

Annual subscription \$4.00 U.S. (\$5.00 U.S. through booksellers). All payments are in advance. The back volumes are still on sale; price of each volume 4 U.S. dollars; through booksellers 5 U.S. dollars.

Subscriptions should be sent to the Editor: Thomaz Borgmeier, O.F.M., Convento S. Antonio, Largo da Carioca, Rio de Janeiro, Brazil.

## ZOOLOGICAL RECORD—PART INSECTA.

The "Insecta" part of the "Zoological Record" is published annually about July at 15/6 post free.

It contains as complete a record as possible of the entomological literature of the previous year and comprises three main sections:—

1. Titles of papers, over 3,000 in number, arranged under authors;
2. an Index dealing with such subjects as Morphology, Physiology, Ecology, etc.;
3. a Systematic portion, which occupies about half the whole. This constitutes a classified index of all the new genera and species of insects that have been published during the year, as well as references to general papers on systematics.

Orders should be addressed to *The Assistant Director, Imperial Institute of Entomology, 41, Queen's Gate, London, S.W.7.*

Orders for the *complete* volume of the "Zoological Record" (as opposed to the "Insecta" part) should be sent to the Zoological Society of London, Regent's Park, London, N.W.8.

# THE ELIMINATION OF PINK BOLL WORM FROM COTTON SEED

**SIMON'S PATENT HEATERS. 100% Efficiency. No damage to seed.**

Extract from *Egyptian Ministry of Agriculture Official Bulletin* :—

“ In running the only requirement is the necessary steam power. No extra labour is involved, the seed being sacked as it comes from the machine instead of as it comes from the gins in the usual way. The machine is therefore cheap as regards both initial cost and running expenses ; it is very compact, simple of construction, easy of management, continuous in action, and entirely devoid of danger ; it is therefore a practical proposition from every point of view.”

## **RICHARD SIMON & SONS, Ltd.**

**PHOENIX WORKS, NOTTINGHAM.**

**Telephones : 75136-7. Telegrams : “ Balance, Nottingham.”**

**Codes : A.B.C. 5th Edition and Bentley's.**

## **LIVERPOOL SCHOOL of TROPICAL MEDICINE UNIVERSITY OF LIVERPOOL**

### **COURSES OF INSTRUCTION**

Arrangements have been made with the London School of Hygiene and Tropical Medicine and with the Colonial Office that, for the duration of the war, courses of instruction in Tropical Medicine and Hygiene will be held alternately in London and Liverpool. The next course for the Diploma in Tropical Medicine, lasting about three months, will commence on a date to be announced later.

*Prospectus from the Laboratory Secretary, School of Tropical Medicine,  
Pembroke Place, Liverpool, 3.*

### **TREATMENT OF PATIENTS**

There is an out-patient department at the School for all sufferers from diseases contracted in the tropics. Cases needing hospital treatment are admitted to the Tropical Ward (general and private wards) of the Liverpool Royal Infirmary, which adjoins the School. Special arrangements are made for Civil Servants, and for members of certain firms who are regular subscribers to the School.