

Insect Science and its Application

The International Journal of Tropical Insect Science

Aims and Scope

Insect Science and its Application deals comprehensively with all aspects of scientific research targeted on tropical insects (and related arthropods), and the application of new discoveries to such diverse fields as pest and vector management and the use of insects for human welfare.

A distinctive feature of the journal is its multi- and interdisciplinary nature, which transcends the traditional boundaries of entomology.

Its second feature is its concentration on the recording and reviewing of the progress of insect science in the tropical and subtropical regions of the world. Thus, without excluding any area of the wide field encompassed by insect science, the journal will accept manuscripts in environmental physiology, the regulation of development and reproduction, population modelling, chemical ecology, natural products chemistry, plant resistance, host/insect relations, behaviour of tropical pest species, epidemiology of tropical diseases, vector biology, pest and vector management research, entomo-meteorology, insects in relation to farming systems, forest entomology, insect pathology, social insects and arthropods, and the use of insects. It is the intention of the Editors to have manuscripts published rapidly, consistent with the needs of quality control.

In addition to articles of original research, the journal also publishes book reviews, announcements and reports of meetings and mini-reviews. Each regular issue of the journal contains a short review article on a critical or rapidly developing area of tropical insect science; normally the Editors will have invited an author to contribute such a mini-review.

Information for Contributors

1. All papers for publication in *Insect Science and Its Application* should be submitted directly to the Editor-in-Chief, Professor Thomas R. Odhiambo, Scientific Editorial Services, P.O. Box 59900, Nairobi, Kenya. Papers should be mailed in a strong, preferably linen, envelope, as they may otherwise arrive in a damaged condition.
2. Papers should be in English or French and be original contributions in the field of tropical insect science. Each paper should have a summary in the form of an abstract in both English and French.
3. Submission of a paper implies that it has not been published previously, that it is not under consideration for publication elsewhere, and that if accepted for *Insect Science and Its Application* the authors will transfer copyright to Pergamon Press as is customary. Articles and illustrations become the property of the journal. There is no page charge for papers accepted for publication.
4. Manuscripts and illustrations must be submitted in triplicate to ensure efficient refereeing, and the author should retain a copy. In the case of multiple authorship the authors should indicate who is to receive correspondence.
5. Manuscripts must be typewritten with double spacing (including the reference list), and with wide margins on one side of the paper only. Authors are requested to keep their communications as concise as possible. Footnotes should be avoided, and italics should not be used for emphasis. A running head of not more than 30 letters should be supplied.
6. Twenty-five free reprints will be supplied to the first-named author of each paper published in the journal. Detailed Instructions to Authors for the preparation of manuscripts are available from the Editor-in-Chief or the Publishing Office.

Insect Science and its Application

The International Journal of Tropical Insect Science

VOLUME 5 NUMBER 6

1984

CONTENTS

Mini-Review Article

- R. C. CHAUDHARY, G. S. KHUSH and E. A. HEINRICHS 447 Varietal resistance to rice stem-borers in Asia

Research Articles

- GUY J. HALLMAN 465 Quantification of the relative importance of 12 uncultivated hosts of *Heliothis virescens* (Fabricius) using field data
- I. G. HIREMATH and T. S. THONTADARYA 469 Seasonal incidence of the sorghum earhead bug, *Calocoris angustatus* Lethierry (Hemiptera: Miridae)
- PREM KISHORE 475 Development of stable resistant cultivars for stem-borer, *Chilo partellus* (Swinhoe) in sorghum
- JOHANNA P. E. C. DARLINGTON 481 Two types of mound built by the termite *Macrotermes subhyalinus* in Kenya
- F. P. AMERASINGHE and T. S. B. ALAGODA 493 Mosquito oviposition in bamboo traps, with special reference to *Aedes albopictus*, *Aedes novalbopictus* and *Armigeres subalbatus*
- S. ELNAGAR, M. M. MEGAHED, H. A. SALLAM and S. M. IBRAHIM 501 Inherited sterility among *Agrotis ipsilon* laboratory population, exposed to gamma irradiation
- PETER V. WARNER, DAVID MUNG'ONG'O, OMARI S. CHALO, HARALD H. BAUMGARTNER and DARRELL L. WILLIAMSON 505 The enhanced suitability of hybrid goats over the indigenous East African goat as hosts for rearing *Glossina morsitans morsitans* Westwood
- A. A. LATIF 509 Resistance to *Hyalomma anatolicum anatolicum* Koch (1844) and *Rhipicephalus evertsi* Neumann (1897) (Ixodoidea: Ixodidae) by cattle in the Sudan
- JOHN OLU AINA 513 The biology of *Daraba laisalis* (Wlk) formerly called *Sceliodes laisalis* (Wlk) (Pyralidae, Lepidoptera), an egg fruit borer
- MUTUKU J. MUTINGA, JOHNSON M. NGOKA and THOMAS R. ODHIAMBO 521 Epidemiological investigations of visceral leishmaniasis in the West Pokot District, Kenya
- W. W. D. MODDER 527 Diurnal variation in feeding and gut activity in nymphs of the African pest grasshopper, *Zonocerus variegatus*
- Erratum 532
- New Patents i

This journal is now listed in
Current Awareness in Biological Sciences.
Send to your nearest Pergamon office for
a free specimen copy.

ISSN 0191-9040
ISIADL 5(6) 447-532 (1984)