

STAFF PROFILE

Name: Dr. Jenard Patrick Mbugi
Title/qualification: Ph.D
Department/unit/section: Department of Zoological Sciences
Position: Lecturer
Area of specialization: Agricultural Entomology
Professional Affiliation:

1. Entomological Society of Kenya (ESK)
2. East African Natural History Society (EANHS)
3. Kenya DAAD Scholars Association (KDSA)
4. Kenya Society for the Protection and Care of Animals (KSPCA)
5. Association of Kenyan Acarologists (AKA)
6. Automobile Association of Kenya (AA)
7. ARPPIS Scholars Association (ASA)

Research Interests:

1. Host plant resistance to insects with emphasis on the role played by secondary plant metabolites.
2. Use of ecologically safe insect pest control methods viz: Biocontrol, use of botanical insecticides, cultural control methods and how they can be used in integrated pest management.
3. Insect movements: Study of both short and long-range insect movements using mark-release experiments; screening various insect marking techniques.
4. Investigating Hopkin's Host Selection principle or preimaginal conditioning – how the host plant food influences larval feeding and oviposition by the adult insects.
5. Biodiversity and its conservation with emphasis on insects and other arthropods.

Publications:

1. C.W. Gitau, S. Dupas, J.A. Ngi – Song, P.J. Mbugi, and F. Schulthess (2006). Calyx fluid proteins of two *Cotesia sesamiae* (Cameron) (Hymenoptera: Braconidae) biotypes in Kenya: implications to biological control of the stem borer *Busseola fusca* (Fuller) (Lepidoptera: Noctuidae). Ann. Soc. Entomol. France 42 (3 – 4): 433-441.
2. C.W. Gitau, D. Gundersen – Rundal, M. Pedroni, P.J. Mbugi and S. Dupas (2007). Differential expression of the CrV1 haemocyte inactivation – associated polydnavirus gene in the African maize stem borer, *Busseola fusca* (fuller) parasitized by two biotypes of the endoparasitoid *Cotesia sesamiae* (Cameron). Journal of Insect Physiology 53: 676-684.

Recognitions

Serves as an external examiner for M.Sc and Ph.D thesis of students from JKUAT (Biological Sciences Dept)

Appointment to Boards

A board member of Kiamuringa Secondary School, Mbeere District.

Community outreach

- Gives motivational talks to students and staff of secondary schools in Mbeere District especially in the learning and teaching of Science subjects and HIV/AIDS awareness.
- A member of the steering committee that oversaw the initiation of Kangungi Secondary School, Mbeere District in January 2009.

Conference/workshop presentations:

1. 2008: African Regional Postgraduate Programme in Insect Science (ARPPIS) Silver Jubilee conference held from 26 – 28th November, 2006, ICIPE, Duduville Nairobi, Kenya.

Theme: Nurturing African Talent for leadership in insect science.

2. 2005: Kenya DAAD Scholars Association Conference held from 25th – 27th May 2005, AVU – Hall, Kenyatta, University, Nairobi Kenya.

Theme: Re-invigorating the University mandate in a Globalising Environment: Challenges, obstacles and way forward.