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## Professor PAUL N. NDEGWA (Ph.D.)

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### 1. PERSONAL DETAILS

Contact: School of Biological Sciences, University of Nairobi,  
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Date/place of Birth: 11<sup>th</sup> May, 1963; Murang'a County, Kenya  
Marital Status: Married  
Nationality: Kenyan  
Religion: Christian  
Languages: English, Kiswahili; Mother tongue

### 2. EDUCATION BACKGROUND

1. **Ph.D.** (Entomology), University of Nairobi, Kenya. 1992-1997
2. **M.Sc.** (Medical & Veterinary Entomology), University of Nairobi, Kenya. 1987-1990
3. **B.Sc.** (Biological Sciences), University of Nairobi, Kenya. 1984-1987
4. East Africa Advanced Certificate of Education, Kagumo High School. Nyeri. 1981-1982
5. East Africa Certificate of Education, Ichagaki Secondary School, Maragwa. 1977-1980
6. Certificate of Primary Education, Gathera Primary School, Maragua. 1970-1976

### 3. TEACHING / WORK EXPERIENCE

1. **Associate Professor**, University of Nairobi (August 2012-Present)
2. **Senior Lecturer**, University of Nairobi - 10 years (2002- Present)
3. **Lecturer**, University of Nairobi – 6 years (1996- 2002)
4. **Tutorial Fellow**, University of Nairobi – 6 years (1991- 1996)
5. **Demonstrator**, Zoology Department, University of Nairobi – 2 years (1989-1990)
6. **Graduate Research Assistant**, Department of Soil Science, University of Nairobi – 4 months. July 1987- October 1987
7. **Untrained Teacher**, Itaaga Secondary School – 1.5 years (1983-1984)

#### 4. ADMINISTRATIVE & OTHER WORK-RELATED RESPONSIBILITIES

1. **Manager**, Chiromo Strategic Management Unit (SMU), Student Welfare Authority (SWA) (April 2012-Present)
2. **Head, Entomology Thematic Area**, School of Biological Sciences (2010-Present)
3. **Chair**, Kenya Bureau of Standards (KEBS) Pesticide Technical committee (2009-2012)
4. **Member**, International Centre of Insect Physiology & Ecology, *icipe* Board of Postgraduate Training (IBPT) (2011 – Present)
5. **Member**, Board of Governors, Ichagaki High School (2009-2012)
6. **Co-ordinator**, Undergraduate Research Projects (SZL 414): 1998-Present
7. **Member**, School of Biological Sciences anti-corruption Committee
8. **Ag. Director**, School of Biological Sciences: Many times on request on diverse dates (last long acting period - 20/12/2010 to 21/01/2011 (33 days))
9. **Ag. Chairman**, Zoology Department: Many times on request on diverse dates
10. **Chair**, Calendar & Brochure committee (2006-present)
11. **Co-ordinator**, Entomology (1998- 2006 )
12. Examinations Officer, Zoology department (1999-2004)
13. Departmental Representative at Faculty of Science Examination Committee (1999-2004)
14. Student mentorship
15. External Examiner, Biology; Kenya Science Teachers Training College – (Before it was taken over by UoN)
16. Co-ordinator, B. Ed. (Sc.) – Biology. Zoology Dept. 1998-2006
17. Zoology Department Representative at ODL programme (2002-2004)

#### 5. INVITED REVIEWS OF JOURNALS

##### 5.1. PLoS Neglected Tropical Diseases: 1 review

1. Manuscript PNTD-D-12-01063 of 12/9/2012. Title: Standardizing visual control devices for tsetse flies: East African species *Glossina swynnertoni*

##### 5.2. Africa Journal of Ecology: 2 reviews

1. Manuscript AFJE-10-128 of 29/4/2010. Title: Mapping land cover types and their suitability for tsetse flies in eastern Uganda: a remote sensing approach
2. Manuscript AFJE-10-182 of 23/6/2010. Title: Diversity and distribution of rodents and shrews in fragmented habitats of Taita hills, Kenya

##### 5.3. Wildlife Biology Practice: 1 review

1. Manuscript WBP-140-952-2-RV. Title: Clinical trypanosomiasis and mortality in re-introduced black (*Diceros bicornis michaeli*) and white (*Ceratotherium simum simum*) rhinoceroses in Kenya.

##### 5.4. Kenya Journal of Sciences: 1 review

1. Manuscript KJS-B-402 of 7/5/2010. Title: Greenhouse rearing of the predacious mite *Typhlodramalus aripo* (Acari: Phytoseeidae) for biological control of cassava green mite in Kenya.

## 6. INVITED LECTURES

1. **Team building and Leadership:** Invited by Secondary Schools Principals at a workshop held at Naivasha on 4/10/2009
2. Set and achieve your goals: Invited by Principal, Ichagaki Secondary School on 24/6/2011
3. Set and achieve your goals: Invited by Principal, Itaga Secondary school on 14/3/2010

## 7. RECENT CONSULTANCIES

1. **Arthropods Biodiversity Specialist:** Biodiversity assessment of the Enoosupukia Trust Land and Adjoining Areas: A project In support of the development of a carbon project. LTS Africa Ltd & LTS International Ltd. March 2011

## 8. SUPERVISION OF POSTGRADUATE STUDENTS

### 8.1 Doctor of Philosophy (Ph.D.)

Number of students supervised since last promotion (2002- Present) = 8

- a. Completed= 4
- b. Ongoing = 4

**Table 1. Supervision record of PhD students**

|   | <b>Students Name, Registration No. &amp; Thesis Title</b>   | <b>Status</b>                  | <b>Co-supervisor(s)</b>  |
|---|---|--------------------------------|--|
| 1 | Patrice Kasangaki (2012).<br>Characterization of honey bee races and the epidemiology of honey bee diseases in Uganda   | Early stage of data collection | Dr. G. Nyamasyo (UoN)  |
| 2 | Shepard Ndlela (2012).<br>Development and implementation of pre- and post-harvest management measures for <i>Bactrocera invadens</i> and <i>Ceratitidis cosyra</i> on mango   | Early stage of data collection | Dr. G. Ong'amo (UoN)<br>Dr. S. Mohamed ( <i>icipe</i> )                                      |
| 3 | Venansio Tumuhaise 180/81921/2011<br>Evaluation of entomopathogenic fungi and commercial <i>Bacillus thuringiensis</i> for the management of <i>Maruca vitrata</i> on cowpeas | Collecting data                | Prof. L. W. Irungu (UoN)<br>Dr. S. Ekesi ( <i>icipe</i> )<br>Dr. S. Mohamed ( <i>icipe</i> ) |
| 4 | Ayuka T. Fombong 180/82303/2008<br>Studies on chemical ecology and molecular  | Completed in 2011              | Prof. L.W. Irungu (UoN)<br>Dr. B. Torto ( <i>icipe</i> )                                     |

|   |   |                   |   |
|---|---|-------------------|---|
|   | characterization of beetles pests of honey bee colonies in Kenya.   |                   | Dr. Masiga ( <i>icipi</i> )                                 |
| 5 | Philip M. Ngumbi, (2008).<br>Experimental control of sandflies (Diptera: Psychodidae) using entomopathogenic fungi (Hyphomycetes) in captivity and in the field.        | Completed in 2011 | Prof. L. W. Irungu (UoN)<br>Dr. N. Maniana ( <i>icipi</i> ) |
| 6 | Harrison Mugo (2006). I80/9227/2005<br>Management of coffee pests in Kenya: Integration of predacious mites and the actions of some environmentally accepted compounds. | Completed in 2010 | Prof. L. W. Irungu (UoN)<br>Prof. E. Banhawya (UoN)         |
| 7 | Evan Mathenge (2004).<br>Development of an exposure-free bed-net trap for sampling Afro-tropical malaria vectors  | Completed 2008    | Prof. L. W. Irungu (UoN)<br>Dr. G. Killeen (KEMRI)          |

## 8.2 Master of Science (M.Sc.)

Total Number supervised = 9 (1 ongoing; 8 completed)

**Table 2: Supervision record of M.Sc. students**

| No. | Students Name, Registration No. & Thesis Title  | Status         | Co-supervisor(s)        |
|-----|---|----------------|-------------------------|
| 1   | Albert O. Owino I56/64572/2011.<br>Effect of temperature on the life history traits of <i>Liriomyza trifolii</i> Burgess (Diptera: Agromyzidae)   | Ongoing        | Dr. G. Ong'amo (UoN)    |
| 2   | Crispus W. Maribie I56/7805/2006.<br>Survey of soil mites (Acari) diversity and densities in different land use types in Embu and Taita Districts, Kenya                                  | Completed 2010 | Dr. G. Nyamasyo         |
| 3   | Emily N. Kitivo I56/7438/2006.<br>The diversity and abundance of subteranean termites in different land cover types: A case study of Embu and Taita Hills, Kenya.                         | Completed 2011 | Dr. G. Nyamasyo (UoN)   |
| 4   | Njoroje K. Mwangi I56/8665/2005.<br>The influence of proximity of agricultural farms to Arabuko-Sokoke forest on insect pollinator diversity and fruit set in Mango and Cashew nut crops. | Completed 2010 | Dr. E. Mwangi ((UoN)    |
| 5   | Samuel K. Kamau I56/7850/2003.<br>Effect of insecticide-treated stable-nets on tsetse and other Diptera in Kwale District, Kenya.   | Completed 2009 | Dr. F. Oyieke ((UoN)    |
| 6   | Eunice A. Owino (2004). Field evaluation of limburger cheese as an odour-bait source for sampling Afrotropical malaria vectors  | Completed 2007 | Prof. R. Mukabana (UoN) |

|   |   |           |   |
|---|---|-----------|---|
| 7 | Humpdeen N. Nyamweya (2005). An assessment of butterfly species diversity in relation to plant structure and phenology in Marsabit National Park      | Completed | Dr. N. Gichuki (UoN)                        |
| 8 | Flora N. Namu (2003). Effects of forest disturbance on butterfly diversity in Kakamega forest Nature Reserve (KFNR), Western Kenya.                   | Completed | Dr. J. Githaiga (UoN)<br>Dr. E. Kioko (NMK) |
| 9 | Simon M. Mugatha (2002). The influence of landuse patterns on diversity and abundance of small mammals in Gachoka Division of Mbeere District, Kenya. | Completed |   |

### 8.3 Supervision of undergraduate projects

Total number supervised = 8

- a. Total number supervised = 8
- b. Completed = 8

**Table 3: Supervision record of undergraduate projects**

| No. | Students Name, Registration No. & Thesis Title  | Status                        |
|-----|---|-------------------------------|
| 1   | Rebecca Tatu Ndarai I41/3448/2008<br>Effect of anthropogenic activities on soil arthropods in karura forest   | Completed & graduated         |
| 2   | Mandarina Gishinga Njoroge I41/22028/2007.<br>Effects of open-ground waste disposal on biodiversity of soil arthropods: A comparative study of three dumpsite types in Muthurwa area, Nairobi | Completed & student graduated |
| 3   | Lydia W. Mugo I20/2614/02.<br>A study of diversity of soil mesofauna and macrofauna at different forest management sites in Karura forest.  | Completed & student graduated |
| 4   | Monicah Jepkemboi I20/2640/99.<br>Diversity of soil invertebrates in different landuse systems at Karura forest, Nairobi, Kenya.  | Completed & student graduated |
| 5   | John M. Muthumbi I20/2615/96.<br>Host-blood discrimination and its effect on survival and reproductive performance of Stomoxys (Diptera: Stomoxyinae)   | Completed & student graduated |
| 6   | Jennifer Ogodo I20/2472/94.<br>Community structure & activity patterns of peri-urban Stomoxyinae  | Completed & student graduated |

## 9. ACADEMIC PUBLICATIONS

### 9.1. Table 3: Summary of academic publications

| Publication Type          | Total Number | Comments                                    |
|---------------------------|--------------|---|
| Refereed journal articles | 16           | 1 more submitted in May 2012                |
| Books & Book chapters     | 1            | 1 book chapter ; MS for book in preparation |
| Manuals                   | 1            | A second manual almost complete             |
| Others (theses)           | 2            | Ph. D. & M.Sc.                              |

#### 9.1.1 Refereed Journal Articles

1. Mugo, H. M., Irungu, L. W., **Ndegwa, P. N.** (2012). Population dynamics of predacious phytoseiid mites, *Euseius kenyae* and coffee thrips, *Diarthrothrips coffeae* and their Interactions in coffee agro ecosystems in Kenya. *International Journal of Science and Nature* (IJSN). Vol. 2 [1] Feb 2012. (In Press)
2. Ayuka T. Fombong, Daniel Masiga, **Paul N. Ndegwa**, Lucy W. Irungu, Richard T. Arbogast, Peter E.A. Teal and Baldwin Torto (2012). Maxillary palp-mediated detection is required for pheromonal in-hive mate finding by *Oplostomus haroldi*, a pest scarab of honeybees. *Proceedings of the Royal Society B.* (In Press)
3. Ayuka T. Fombong, Fabian Haas, **P.N. Ndegwa** and L.W. Irungu (2012) Life history of *Oplostomus haroldi* (Coleoptera: Scarabaeidae) and a description of its third instar larva. *Africa Journal of Insect Science*, 32(1):1-8
4. Mugo H. M., El- Banhawy E .M., Irungu L.W., **Ndegwa P.N.** and Mburu D.M. (2011). Resistance of Predacious mites, *Euseius kenyae* (Acari: Phytoseiidae) to chlorpyrifos (Dursdan®) in Kenyan coffee farms. *Journal of Agricultural Science and Technology*. 13(1), 53-64.
5. Mugo H. M., El- Banhawy E. M., Irungu L.W. and **Ndegwa P.N** (2011). The insect pests of coffee and their distribution in Kenya. *International Journal of Science and Nature*. 2(3), 564-569
6. Philip M. Ngumbi<sup>1</sup>, Lucy W. Irungu, **Paul N. Ndegwa** & Nguya K. Maniania (2011). Pathogenicity of *Metarhizium anisopliae* (Metch) Sorok and *Beauveria bassiana* (Bals) Vuill to adult *Phlebotomus duboscqi* (Neveu-Lemaire) in the laboratory. *Journal of Vector Borne Diseases* 48, 37-40
7. F. N. Namu, J. M. Githaiga, E. N. Kioko, **P. N. Ndegwa**, C. L. Häuser, L. Kühn (2008) The butterfly, *Hypolimnas salmactis magnifica* (Drury, 1773) in Kakamega Forest National Reserve (KFNR) Kenya. *Metamorphosis* 18 (4), 142-143
8. Steve Mihok, David A. Carlson and **Paul N. Ndegwa** (2007) Tsetse and other biting fly responses to Nzi traps baited with octenol, phenols and acetone. *Medical and*

*Veterinary Entomology* 21, 70-84

9. Mathenge, E.M., Misian, G.O. Oulo, D.O., Irungu, L.W., **Ndegwa, P.N.**, Killeen, G.F. & Knols B.G.J. (2005) Comparative performance of Mbita trap, CDC light trap and Human Landing Catch in the sampling of *Anopheles arabiensis*, *An. Funestus* and culicine species in a rice irrigation scheme in western Kenya. *Malaria Journal* 4: 7-11
10. Mathenge, E.M., Omweri, G.O., Irungu, L.W., **Ndegwa, P.N.**, Welczak, E., Smith, T. A., Killeen, G.F. & Knols, B.J.G. (2004) Comparative field evaluation of Mbita trap, CDC light trap and the Human Landing Catch for sampling of malaria vectors in western Kenya. *American Journal of Tropical Medicine & Hygiene* 70, 33-37
11. **Paul N. Ndegwa** and Jennifer Ogodo (2002) Community structure and diel activity patterns of peridomestic Stomoxyinae in Nairobi, Kenya. *Insect Science & its Application* 22: 275-280
12. Mathenge, E. M; G.F. Killeen, D.O. Oulo, L. W. Irungu, **P. N. Ndegwa** and B. G. J. Knols (2002) Development of an exposure-free bednet trap for sampling Afrotropical malaria vectors. *Medical & Veterinary Entomology* 16, 1-8
13. **Paul N. Ndegwa**, Steve Mihok and Florence A. Oyieke (2001). Habitat preferences and activity patterns of *Glossina swynnertoni* Austen in Maasai Mara, Kenya. *Insect Science & its Applications* 21, 113-122
14. **Paul N. Ndegwa** and Steve Mihok (1999). Development of odour-baited traps for *Glossina swynnertoni* Austen. *Bulletin of Entomological Research* 98, 255-261.
15. S. Mihok, E.N. Munyoki, F. Masaninga, **P. N. Ndegwa** & R. O. Olubayo (1994). Isolation of *Trypanosoma* ssp. from wild flies through procyclic expansion in *Glossina morsitans centralis*. *Acta Tropica* 56, 25-37.
16. **Paul N. Ndegwa**, Lucy W. Irungu & Shamshudeen K. Mooloo (1992). Effect of high incubation temperature of puparia: Increased infection rates of *Trypanosoma congolense* in *Glossina morsitans centralis*, *G. fuscipes fuscipes* and *G. brevipalpis*. *Medical & Veterinary Entomology* 6, 127-130.

### 9.1.2 BOOK CHAPTERS

1. Paul N. Ndegwa. Research Methods in Biosciences: A qualitative and quantitative approach (*In Preparation*)
2. Flora N. Namu, John M. Githaiga, Esther N.Kioko, **Paul N. Ndegwa**, Christoph L. Häuser (2008). Butterfly species composition and abundance in an old, middle-aged, and young secondary forests, In: Kühne L. (Ed.), *Butterflies and moths diversity of the Kakamega forest (Kenya)*, Brandenburgische Universitätsdruckerei und Verlagsgesellschaft, Germany, pp. 47-61

### 9.1.3 MANUALS

1. Paul N. Ndegwa (2012). Lecture notes on Arthropod Biology, University of Nairobi. Open & Distance Learners (ODL) Module (*In Preparation*)
2. Paul N. Ndegwa (2003). Lecture notes on Invertebrate Zoology, University of

Nairobi. Open & Distance Learners (ODL) Module

#### 9.1.4 OTHER CONTRIBUTIONS TO LITERATURE

2. Paul N. Ndegwa (1997). Studies on ecological and epidemiological significance of *Glossina swynnertoni* Austen in Masai Mara, Kenya. Ph.D. Thesis, University of Nairobi.
3. Paul N. Ndegwa (1997). Cyclic development of *Trypanosoma congolense* Broden in *Glossina morsitans centralis*, *G. brevipalpis* and *G. swynnertoni*. M.Sc. Thesis, University of Nairobi

## 10. RESEARCH

### 10.1 Key competencies:

Insect ecology (including chemical ecology); Molecular biological techniques, Integrated Pest/Vector Management; good knowledge of insect taxonomy

### 10.2 Current Interests:

1. Bait technology for vector control and management
2. Insect therapeutics: Mainly MDT

### 10.3 Past Research engagements

1. 2004-2012: **Student-based collaborative research** on different ecological aspects of insect pests or vectors of diseases mainly on chemical ecology, odour-bait development, trapping technology for management of pests/vectors, population dynamics, IPM.
2. 1998-2004: Research on different biological aspects of stable flies (Stomoxyinae) and other biting flies, including population dynamics, community structure, activity patterns, host-blood discrimination and its effect on survival of *Stomoxys* spp.
3. 1996-1998: **Post-Doctoral Fellowship** at International Centre for Insect Physiology & Ecology (icipe). Research on Ecology of Tsetse & other biting flies in Kenya, Tanzania and Ethiopia. Good hands-on experience on field trapping technology, odour baits testing and other sampling techniques for insects (and other arthropods).
4. 1992-1996: Research on ecology and Epidemiological importance of the tsetse fly *Glossina swynnertoni* in the Masai Mara, Kenya. The field work involved evaluating tsetse sampling devices, determination of habitat preferences, population dynamic, feeding habits and vector potential. Molecular characterization of trypanosomes was done at **Institute of Veterinary Biochemistry, Free University, Germany and bloodmeal analysis at GTZ-BGVV laboratory, Germany.**



## 11. CONFERENCES / WORKSHOPS ATTENDED

1. **Leadership & Team building Training**, 27<sup>th</sup> June 2012, SWA, University of Nairobi
2. Curriculum Review workshop for Staff & Stakeholders, 28<sup>th</sup> February to 4<sup>th</sup> March, 2010, Karen, Nairobi
3. WHO/TDR Good Laboratory Practice (GLP) Training workshop at the National Museum of Kenya Headquarters, Nairobi, Kenya (8<sup>th</sup>-10<sup>th</sup> January 2003).
4. International study workshop on integrated rural development through sustainable management of tsetse & trypanosomiasis control – “The way forward”, Addis Ababa and Axum (3<sup>rd</sup>-8<sup>th</sup> Feb. 1998).
5. 24<sup>th</sup> meeting of the International Scientific Council for Trypanosomiasis Research & Control (ISCTRC), Maputo, Mozambique (28<sup>th</sup> Sept.-11<sup>th</sup> Oct. 1999). Presented a paper on new trap designs for *Glossina swynnertoni*
6. Many other local workshops/conferences/seminars

## 12. THESES EXAMINED (besides those supervised)

### 12.1 University of Nairobi Theses (13)

1. Soil factors influencing the prevalence of *Tunga penetrans* in Gaichanjiru location of Murang'a County, Kenya by Josephine Wanjiku Ngunjiri (M.Sc. University of Nairobi, 2011)
2. The influence of traditional water management agro-ecosystem practices and control options on larval abundance of malaria vectors in the suburb of Kasagam, Kisumu city, western Kenya by Collins K. Mweresa (M. Sc. University of Nairobi, 2009)
3. Sampling malaria vectors and other mosquitoes with the Ifakara Tent Trap and standard resting boxes in urban Dar es Salaam by Sikilu Maggy (M. Sc. University of Nairobi, 2009)
4. Data and organizational systems as epidemiological determinants of larviciding for malaria control in urban Dar es Salaam by Jackson Saya (M. Sc. University of Nairobi, 2009)
5. Malaria transmission and the role of microbial larviciding in a Riceland agro-ecosystem by Muriu, Simon Mwangi (Ph.D. – University of Nairobi, 2008)
6. Integrated Management of Bean Bruchid, *Acanthoscelides obtectus* Say (Coleoptera: Bruchidae), on Stored Beans in Eastern Kenya by Philip Kiprotich Kandie. (M.Sc. University of Nairobi, 2008)
7. Evaluation of bush clearing as a control measure against Afrotropical malaria

vectors by Benson O. Nyachongi (M. Sc. – University of Nairobi, 2007)

8. The effects of permethrin-impregnated bednets on mosquito behaviour by Evan M. Mathenge (M.Sc. – University of Nairobi)
9. Population dynamics of *Anopheles gambiae* immature stages and their interaction with other aquatic fauna by Simon M. Muriu (M. Sc. – University of Nairobi)
10. The ecological role of macro-invertebrates associated with the littoral wetlands of Lake Naivasha by Francis M. Masai (M. Sc. – University of Nairobi)
11. Ecological factors determining utilization patterns and inter-lake movements of lesser flamingos (*Phoeniconais minor* Geoffroy) in Kenyan alkaline lakes by John M. Githaiga (Ph.D. – University of Nairobi)

### 12.2 External Thesis Examined (2 PhD & 5 MSc)

1. Stemborer oviposition-induced volatile semiochemicals in maize and their effects on the behavior of parasitoids by Emanuel Tamiru Abamo (PhD. Kenyatta University, 2012)
2. Ecological Characterization of *Anopheles* Larval Habitats and their Distribution in Western Kenya Highlands by Ndenga Bryson Alberto (Ph.D. Kenyatta University, 2011)
3. Effects of Botanical Pesticides on the Leaf miner, *Liriomyza huidobrensis* (Diptera: Agromyzidae) and its Natural Enemy, *Phaenocarpa scabriventris* (Hymenoptera: Braconidae) by Everlyne Namikoye Samita (M.Sc. Kenyatta University, 2011)
4. Evaluation of the impact of microbial larvicides on population dynamics of *Anopheles* mosquitoes in Mwea, Kenya by Mutunga Lucy Mumo (M.Sc. Kenyatta University, 2011)
5. Efficacy of synthetic odours and human emanations on host seeking behaviour of *Anopheles gambiae* mosquitoes by Olanga E. O. (M.Sc. Kenyatta University, 2010)
6. Effects of cow dung and selected medicinal plants on *Anopheles* species as a strategy for malaria vector control in Ahero rice irrigation scheme, Kenya by Michael Kahato Ngugi. (M.Sc. Kenyatta University, 2009)
7. Community-based malaria vector surveillance in Rusinga Island, Western Kenya by Samuel Kiptoo, Kemboi (M.Sc. – Kenyatta University, 2008)

### 13. PAST & PRESENT PROFESSIONAL ASSOCIATIONS/ COLLABORATION

1. **Coffee Research Foundation (CRF)** – I'm working closely with the Entomology Department of CRF in capacity building and collaborative research. We are currently working on a proposal on the use of phytoseiid mites in integrated management of coffee pests
2. **Ministry of Livestock (MoL), Kenya** – I work closely with the Chief Zoologist, Livestock Department, MoL, on vector control projects & training (mainly tsetse &

biting flies)

3. **ICIPE** – Being a member of the Icipe Board of Postgraduate Training, I have managed to market UoN as the best university in Kenya for postgraduate training, particularly in insect sciences. This has resulted in increased enrolment of PhD ( 6 PhD students in the last two years)
4. **KERI**
5. **ILRI**
6. **TPRI** (Tanzania Pesticide Research Institute)
7. **NMK**

#### 14. REFEREES

1. Prof. Lucy W. Irungu (PhD.)  
Deputy Vice Chancellor, R PE,  
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