

# GIDEON H.N. NYAMASYO

PhD (1988), MSc (1979), BSc (1975)

## CURRICULUM VITARUM

**1.0. ADDRESS:** University of Nairobi  
School of Biological Sciences  
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**2.0. PERSONAL DATA AND CAPABILITY STATEMENT:**

Date of Birth 17 June 1950  
Place of Birth: Mukaa District (Formerly, Makueni District), Kenya  
Associate Professor/Zoologist/Entomologist/Environmentalist  
Proficient in English, Swahili and Kamba

**CAPABILITY STATEMENT:** This era of the 4<sup>th</sup> industrial revolution requires men and women who are trained and well-grounded in diverse academic aspects. They should be highly flexible in character in order to adapt and cope with the changing environmental, social and economic situations. They should be very innovative in dealing with the various emerging livelihood demands and related challenges. The willingness to share views and assist others to interpret data and events as correctly as possible is an attribute not just necessary for accomplished scholars but mandatory for their healthy living. This attribute coupled with their capacity to read, study and sift relevant facts from the current wide sources of information, demands a healthy and sober body, mind and soul. I can confidently say that I am one of those scholars with the characteristics described above. This is my capability statement.

**3.0. PROFESSIONAL EXPERIENCE: July 2012 to Date:** Ass. Professor –2002-2012 Senior Lecturer; 1988 to 2002 – Lecturer; 1986 to 1988 – Assistant Lecturer; 1983 to 1986 – Tutorial Fellow; 1979 to 1983 – Graduate Research Trainee (ICIPE Research Centre); 1975 to 1979 – Agricultural Research Officer (Ministry of Agriculture).

#### **4.0. THESES**

- 4.1.** Nyamasyo, G.H.N. (1986). Some aspects of the ecology and behaviour of Savannah Ants (Hymenoptera, Formicidae) and their impact on Termite (Isoptera) prey populations in Kajiado District, Kenya Ph.D. University of Nairobi.
- 4.2.** Nyamasyo, G.H.N. (1978): Studies on the Insecticide Resistance in Cotton Stainers, *Dysdercus* spp. (Hemiptera: Pyrrhocoridae) in Kenya, MSc. University of Nairobi.

#### **5.0. PUBLICATIONS IN REFEREED JOURNALS**

- 5.1.** Willis M. Ochillo, Gideon N. Nyamasyo, Dora Kilalo, Washington Otieno, Miriam Otipa, Florence Chege, Teresia Karanja & Eunice K. Lingera (2019): Ecological Limits and Management Practices of Major Arthropod Pests of Tomato in Kenya. *Journal of Agricultural Science and Practice*. Vol. XX (p. 1-14). ISSN 2536-7072.
- 5.2.** Willis M. Ochillo, Gideon N. Nyamasyo, Dora Kilalo, Washington Otieno, Miriam Otipa, Florence Chege, Teresia Karanja & Eunice K. Lingera (2018). Characteristics and Production Constraints of Small Holder Tomato Production in Kenya.
- 5.3.** Kipkemoi, S; Nyamasyo, G; Mari, N, Musingi, J (2017). Natural Resource Based Conflicts in Tana River. *International Journ. of Social Sciences and Education*. Vol I. Issue 5. PP 47-57.
- 5.4.** Patrice Kasangaki, Gideon Nyamasyo, Paul Ndegwa, Robert Kagoe, Christopher Angire, Agapitus Kato & Charles Masembe (15th March 2017): Mitochondrial DNA (MtDNA) Markers revealed low genetic variation and presence of two honey bee races in Uganda's agro-ecological zones. *Journal of Apicultural Research*, 56:2, 112-121.
- 5.5.** C.W Maribie, G.H.N Nyamasyo, P.N Ndegwa, J. Lagerlof & M. Gikungu (2011); Abundance and Diversity of Soil Mites (*acar*) along a gradient of land-use types in Taita-Taveta, Kenya, *Tropical & Sub-Tropical Agro-ecosystems*. Vol. 13, pp 11 to 27.
- 5.6.** J.J Muturi, J.P Mbugi, J.M Mueke, J Lagerlof, J.K Mungatu, G. Nyamasyo & M. Gikungu (2011): Effects of integrated soil fertility management interventions on the abundance and diversity of soil collembola in Embu and Taita Districts, Kenya. *Tropical & Sub-tropical Agroecosystems* Vol. 13 (1), pp. 37 to 42.
- 5.7.** Willis N. Ochillo and Gideon H. Nyamasyo (2011): Pest status of bean stem

- maggot (*Ophiomyia* sp.) and Black Bean aphid (*Aphis fabae*) in Taita District, Kenya. *Tropical & Sub-tropical Agroecosystems* Vol. 13 (1), pp. 91 to 97.
- 5.8.** J. Nderitu, M. Sila, G. Nyamasyo & M. Kasina (2009), Insect species associated with Sweet Potatoes (*Ipomoeae batatas* L.) (LAMK) in Eastern Kenya. *Int. J. Sustain. Crop Prod.* 4 (1): pp. 14 to 18.
  - 5.9.** J.J. Muturi, J.P. Mbugi, J.M. Mueke, Jan Langerlof, J.K. Mungatu, G.H.N. Nyamasyo & M. Gikungu (2009), Collembola density and diversity along a gradient of land-use types in Embu District, Eastern Kenya, *Tropical & Sub-tropical Agroecosystems* pp. 361 to 369.
  - 5.10.** N.K. Karanja, F.O. Ayuke, E.M. Mua, B.K. Musombi and G.H.N. Nyamasyo (2009). Soil Macrofauna community structure across land-use systems of Taita, Kenya, *Tropical and Sub-tropical Agroecosystems*. Pp. 385 to 396.
  - 5.11.** D.N. Obonyo, G.L. Lovei, J.M. Songa, F.A. Oyieke, S.N. Mugo, and G.H.N. Nyamasyo (2008); Development and mortality responses of *Chilo partellus* Swinhoe (Lepidoptera: Crambidae) and *Sesamia calamistis* Hampson (Lepidoptera: Noctuidae) following partial feeding on Bt-transgenic maize. *Journal of Applied Biosciences* Vol. 11: 554-563.
  - 5.12.** F.O. Ayuke, N.K. Karanja, E.M. Muya, B.K. Musombi, J. Mungatu and G.H.N. Nyamasyo (2009). Macrofauna diversity and abundance across land use systems in Embu, Kenya. *Tropical and Sub-tropical Agroecosystems*, pp. 371 to 384.
  - 5.13.** S. Ondiaka, N.K. Maniania, G.H.N. Nyamasyo & J.H. Nderitu (2008), Virulence of the entomopathogenic fungi *Beauveria Bassiana* and *Metarhizium anisopliae* to sweet potato weevil *Cylas puncticollis* and effects on fecundity and egg viability. *Ann. Appl. Biol.* (2008) pp. 1 to 8.
  - 5.14.** Nderitu J.H., Kasina, M.J., Nyamasyo G.N., Waturu C.N. & Aura J. (2008). Management of Thrips (Thysanoptera: Thripidae) on French beans (Fabaceae) in Kenya: Economics of insecticide Applications. *Journ. Entomol.* 5 (3): pp. 148 to 155.
  - 5.15.** Kasina J., Nderitu J., Nyamasyo G., Olubayo F., Waturu C., Obudho E., Yobera D. (2006). Evaluation of Companion Crops for trips (Thysanoptera: Thripidae) Management on French bean *Phaseolus vulgaris* (Fabaceae).
  - 5.16.** Kasina, J., Nderitu, J., Nyamasyo, G., Olubayo, F., Waturu, C., Obudho, E. Yobera, D. (2006). Diurnal population trends of *Megalurothrips sjostedti* and *Frankliniella occidentalis* (Thysanoptera: Thripidae) and their natural enemies on French BEAN *Phaseolus vulgaris* (Fabaceae). *International J. Trop. Inse. Sc.* Vol. 26 No. 1 pp. 2 to 7.
  - 5.17.** Jembere, B., Obeng-Ofori, D., Hassanali, A., Nyamasyo, G.H.N. (1995). Products

derived from the leaves of *Ocimum kilimandscharicum* (Labiatae) as post-harvest grain protectants against the infestation of three major stored product insect pests. Bull Ent. Res. 85, 361 to 367.

- 5.18. Nyamasyo, G.H.N. (1988): *Macrotermes Michaelseni* (Isoptera, Macrotermitinae) foraging and predatory strategies, *Sociobiology* 15(2): pp. 213 to 218.
- 5.19. Nyamasyo G.H.N. & A.K. Karel (1982). Studies on insecticide resistance in cotton stainers, *Dysdercus* spp. (Hem; Pyrrhocoridae in Kenya. Bull Ent. Pp. 72, 461 to 465).

## 6.0. PUBLISHED BOOKS

- 6.1. Kitivo, Emily; Nyamasyo Gideon and Kimiti, Jackson (2018): *Agroecosystem Disservices and Service Providers*. Scholari Press. Omniscryptum publishing group, pp 27.
- 6.2. G.H.N. Nyamasyo & Teresia N. Kyalo (2015): *Managing Land degradation in Kenya: A case Study of Kilome Division, Mukaa District, Makueni County*: Equitops Trading (Publishing Division), Nairobi. ISBN 9786166365047; 252 p.
- 6.3. Gideon H.N. Nyamasyo & Teresia N. Kyalo (2015): *Managing Land Degradation in Kenya: A Case Study of Kilome Division, Mukaa District, Makueni County*: Equitops Trading (Publishing Division), Nairobi. ISBN 9786166365047; 252 p
- 6.4. J.H. Nderitu, G.H.N. Nyamasyo & J. M. Kasina (2008), Eds. *Agricultural Entomology (Practical Aspects of Agric. Entomology)*, First Edition, Published by Equatops Trading pp. 1 to 150. ISBN 9966-05-121-X
- 6.5. Nyamasyo G.H.N. & Nderitu J.H. (2007). *Invertebrate Zoology for Beginners*. Published by Equatops Trading, pp 1 to 135. ISBN. 9966-05-131-7
- 6.6. Nyamasyo, G.H.N. & Olubauyo F. contributed all the information on crop pests and their control published in the *Farmers Directory* by Honeybee Communications. Ed. R. Gachuhi pp. 1 to 239.

## 7.0. PUBLISHED REPORTS

- 7.1. 4<sup>th</sup> National Report to the Conference of Parties of the Convention on Biological Diversity (July 2009), A Report of the Republic of Kenya, Published by the National Environment Management Authority (NEMA), pp. 1 to 66.
- 7.2. Capacity Building Needs and Country specific priorities in the Conservation of Biological Diversity in Kenya: Synthesis Report (2006). A NEMA & UNEP Report. (pp. 1 to 46).

- 7.3.** Capacity Building Needs for Conservation and Sustainable Use of Biological Diversity important to Agriculture in Kenya. A NEMA & UNEP Report (2006). (pp. 1 to 51).
- 7.4.** Capacity Building Needs for Access to Genetic Resources and Benefit Sharing Mechanisms in Kenya. A NEMA & UNEP Report (2006), (pp. 1 to 44).
- 7.5.** Capacity Building Needs for preservation and maintenance of Biological Diversity related knowledge of indigenous and local communities with traditional lifestyles. A NAME & UNEP Report (2000). pp. 1 to 72.
- 7.6.** Capacity Building Needs for the design and implementation of incentive measures to conserve biological diversity in Kenya. A NEMA & UNEP Report (2006). Pp. 1 to 29.
- 7.7.** Capacity Building Needs for development and implementation of General measures for In-situ and ex-situ conservation and sustainable use of Biological Diversity in Kenya. A NEMA & UNEP report (2006). Pp. 1 to 48.
- 7.8.** Capacity Building Needs for developing methodologies to evaluate and mitigate specific threats to components of Biological Diversity. A NEMA & UNEP Report (2006). Pp. 1 to 56.
- 7.9.** Nyamasyo G.H.N. (1980): Predation on the grassland termites in the semi-arid Savannah at Kajiado by the ant *Megaponera foetens*, 8<sup>th</sup> Annual Report, 1980.
- 7.10.** Nyamasyo, G.H.N. (1979): Predation on grassland termites in semi-arid Savannah at Kajiado, by the ant *Megaponera foetens*. 7<sup>th</sup> Annual Report, 1979.

## **8.0. UNPUBLISHED REPORTS**

- 8.1.** Nyamasyo G.H.N. & Odote Collins (2019): Towards the Development of the Kenya National Law on “Access to Generic Resources and Sharing of Accruing Benefits”.
- 8.2.** Nyamasyo G.H.N. (2013): Towards the Development of Kenya National Pollinators Conservation and Pollination Policy.
- 8.3.** Nyamasyo G.H.N. (2010): Development of a National Policy on the Conservation and Sustainable Management of Agricultural Biodiversity.
- 8.4.** April 2006: Final report on RPSUD funded project, “The Status of Pollinators in Dryland Biodiversity Conservation in Kiima Area, Makueni District, Kenya”.
- 8.5.** 2006: Baseline Study for Aimi Ma Kilungu (AMK) Ranch.
- 8.6.** **2<sup>nd</sup> Dec 2004:** Year II progress report (Rockefeller Funded) on “Development and Implementation of Management Strategies for Sweet Potato Weevil cycles appearing in Eastern Kenya”.

- 8.7. Jan 26<sup>th</sup> – 30<sup>th</sup> 2003:** Report of the 9<sup>th</sup> GEF/SGP (Global Environment Facility/Small Grants Programme) Stakeholder’s Workshop, Garden Hotel, Machakos.

## **9.0. CONFERENCE PROCEEDINGS**

- 9.1.** Nyamasyo, G.H.N., Kahindi J. Ndonge, P. (Editors), Proceedings of the biodiversity familiarization workshop (June 1996).
- 9.2.** Nyamasyo G.H.. (1995). Termites (Isoptera) are an indispensable component in the arthropod trophic relationships in the semi-arid ecosystems, Termite Research and Control Workshop proceedings, pp. 68 to 79.
- 9.3.** Nyamasyo, G.H.N. (1985): What determines the fraction and composition of recruited raiders in the ant *megapomera foetens* (Hymenoptera). 19<sup>th</sup> International Ethological Conference, Toulouse, France Vol. 2

## **10.0. INTERNATIONAL CONFERENCES AND MEETINGS**

- 10.1. 9<sup>th</sup> to 10<sup>th</sup> October 2014:** Land Mark Mbezi Hotel, Dar es Salaam, Tanzania, Eastern and Southern Africa CSO’s workshop on Sustainable Land Management: Paper presented, “Challenges in SLM Partnership and Information Management: the case of the GEF co-financed below ground biodiversity project.
- 10.2. 15<sup>th</sup> to 17<sup>th</sup> Sept. 2010:** International Conference on Biodiversity, Land Use and Climate Change, Intercontinental Hotel, Nairobi, Kenya.
- 10.3. 10<sup>th</sup> to 28<sup>th</sup> May 2010:** 14<sup>th</sup> Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice and the 3<sup>rd</sup> Meeting of the Working Group on the Review of the Implementation of the Convention on Biological Diversity, UNEP, Nairobi, Kenya.
- 10.4. 2006:** 12<sup>th</sup> Conference of Parties of the United Nations Framework Convention on Climate Change, Nairobi, Kenya.
- 10.5. 4<sup>th</sup> – 7<sup>th</sup> Sept. 2006:** Nile Basin Initiative (NBI), Regional Soil Erosion Workshop and Watershed Management – Addis Ababa, Ethiopia.
- 10.6. 2<sup>nd</sup> – 4<sup>th</sup> May 2006:** Nile Basin Initiative micro-grants Regional Capacity-building Workshop – Cairo Egypt.
- 10.7. 20<sup>th</sup> – 31<sup>st</sup> March 2006:** The 8<sup>th</sup> Conference of Parties to CBD – Curitiba, Brazil.
- 10.8. 11<sup>th</sup> – 16<sup>th</sup> April 2005:** The Annual Meeting of the GEF-funded project on the conservation of the Below Ground Biodiversity, Manaus, Brazil.

- 10.9. 19<sup>th</sup> – 28<sup>th</sup> Oct. 2005:** The 7<sup>th</sup> Conference of the Parties to the UNCCD, Nairobi, Kenya.
- 10.10. 8<sup>th</sup> – 12<sup>th</sup> July 2002:** The 3<sup>rd</sup> Global Taxonomy Workshop, Pretoria, South Africa.
- 10.11. 12<sup>th</sup> – 16<sup>th</sup> Nov. 2001:** The 7<sup>th</sup> Meeting of the Subsidiary Body on the Scientific Technical and Technological Advice (SBSTTA-7) of the Convention on Biological Diversity (CBD). Montreal, Canada.
- 10.12. 1<sup>st</sup> – 5<sup>th</sup> Oct. 2001:** Kenya Delegate to the 2<sup>nd</sup> meeting of the Intergovernmental Committee for the Cartagena Protocol on Bio-safety (ICCP – 2), Gigiri, Nairobi.
- 10.13. 15<sup>th</sup> – 26<sup>th</sup> May 2000:** Kenya Delegate to the 5<sup>th</sup> Conference of the Parties to the Convention on Biological Diversity, UNEP Headquarters – Gigiri, Kenya.
- 10.14. Jan. 31<sup>st</sup> – Feb. 4<sup>th</sup> 2000:** Kenya Delegate to the 5<sup>th</sup> Conference of the Subsidiary Body for Scientific Technical and Technological Advice (SBSTTA) Montreal, Canada.
- 10.15. May 1<sup>st</sup> – 17<sup>th</sup> 1998:** Fourth Conference of the Parties to the Convention on Biological Diversity, Bratislava, Slovakia.
- 10.16. 24<sup>th</sup> – 26<sup>th</sup> Oct 1996:** Regional African Ministerial Conference on the Convention on Biological Diversity, UNEP, Nairobi, Kenya.

#### **11.0. PARTICIPATION IN LOCAL CONFERENCES AND MEETINGS**

- 11.1. 9<sup>th</sup> March 2019:** 4<sup>th</sup> Seminar/Workshop: Investing in an agribusiness: The case for small ruminants.
- 11.2. 8<sup>th</sup> Sept 2018:** 3<sup>rd</sup> Seminar at the Pollen Glory Farm: Promotion of goats and sheep farming in Mukaa Sub-County, Makueni County.
- 11.3. 7<sup>th</sup> July 2018:** 2<sup>nd</sup> Seminar/Workshop at Pollen Glory Farm. Konza Plains Goat farming Project.
- 11.4. 1<sup>st</sup> May 2018:** Konza Plains Goat Farming Seminar/Workshop at pollen Glory Farm, Mukaa Sub-County, Makueni County.
- 11.5. Oct 2017:** Review and updating of the National Biodiversity Strategy and Action Plan (NBSAP): Masada Hotel, Naivasha.
- 11.6. 2<sup>nd</sup> – 5<sup>th</sup> Oct 2017:** Global ABS Project – Workshop on strengthening human resources, legal framework and institutional capacities to implement the Nagoya Protocol. Kyaka Hotel, Machakos.
- 11.7. 9<sup>th</sup> – 10<sup>th</sup> May 2017:** National target setting to achieve land degradation neutrality in Kenya. Lukenya Gateway Hotel, Machakos.
- 11.8. 28<sup>th</sup> Feb 2017:** Ngong Hills Hotel, Nairobi. Post Paris Agreement

- 11.9. 22nd – 23rd February 2017:** Jacaranda Hotel, Nairobi. National Target Setting to achieve Land Degradation Neutrality (LDN) in Kenya.
- 11.10. 20th – 21st Sept 2016:** Nyeri Stakeholders Workshop on the establishment of counties platforms on Sustainable Land Management (SLM) for Civil Societies Organizations. Paper Presented: Historical Perspective of Land Management in Kenya.
- 11.11. 14th Nov 2016:** University of Nairobi: An event to reorganize the Paris Agreement entry into force.
- 11.12. 12th – 16th June 2016:** Kisumu, Kenya: Stakeholders Workshop on SLM (See 11.10 above).
- 11.13. 2nd – 5th Feb 2016:** Mtwapa, Mombasa: Stakeholders Workshop on SLM (see 11.10 above).
- 11.14. 9th July 2014:** Great Rift Valley Hotel, Naivasha. Stakeholders Workshop on SLM. Paper presented: “Information and Communication Strategy on SLM: Lessons learned from Kilome Land Degradation Project.
- 11.15. 13th Feb 2012:** Meeting to develop Prior Informed Consent (PIC), Mutually Agreed Terms (MAT) and Material Transfer Agreements (MTA), NEMA Headquarters.
- 11.16. 11th Aug. 2011:** National Environment Trust Fund (NETFUND) Workshop on Partnership Strategy.
- 11.17. 28th July 2011:** Institute of Economic Affairs launch of Intellectual Property Study Report. Panafric Hotel, Nairobi.
- 11.18. 3rd – 8th Oct. 2010:** KWS Bioprospecting Strategy Workshop, Mombasa Kenya.
- 11.19. 10th to 13th Aug. 2010:** Partnership and Resource – Mobilization Workshop organized by the National Environment Trust Fund (KCB Karen, Nairobi, Kenya.
- 11.20. July 2nd 2009:** GEF National Stakeholders Sensitization Workshop – KICC, Nairobi, Kenya.
- 11.21. 13th – 17th Nov. 2004:** Workshop of the Research Programme on Sustainable Use of Dry lands Project – Merika Hotel, Nakuru, Kenya.
- 11.22. 22nd – 23rd Jan. 2002:** National Consensus Building Workshop for World Summit on Sustainable Development (Rio+10) at the Kenya School of Monetary Studies, Nairobi.
- 11.23. 29th Oct.-3rd Nov. 2001:** Presented a paper entitled “Transgenic Technology is set to threaten the livelihood of the Kenyan subsistence farmer” at the First National Workshop on Medicinal, Aromatic and other Under-utilized plant species in Kenya – Kenya Wildlife Service Training Institute, Naivasha.



- 11.24. 12<sup>th</sup>–14<sup>th</sup> Sept. 2001:** The Workshop on Wastes and Chemical Management, KCCT – Mbagathi, Nairobi.
- 11.25. 11<sup>th</sup> – 13<sup>th</sup> July 2001:** The Workshop on Capacity Building in Biotechnology and Biosafety at ICIPE and presented a paper entitled “Impact Assessment in Modern Biotechnology Products on Agricultural Biodiversity”.
- 11.26. 5<sup>th</sup>–8<sup>th</sup> June 2001:** The National Sensitization Seminars in Intellectual Property Rights (IPRs) organized by KIPO, Lillian Towers Hotel, Nairobi.
- 11.27. 17<sup>th</sup>–21<sup>st</sup> Nov 1998:** National Biodiversity Strategy and Action Plan (NBSAP) Project planning team training workshop – Garden Hotel, Machakos, Kenya.
- 11.28. 26<sup>th</sup>–27<sup>th</sup> Sept. 1996:** Resource person to the Kenya Agricultural Research Institute, Centre Research Advisory, Committee (CRAC) for Crop Protection, NARL, Nairobi.
- 11.29. 1991:** 2 Week Regional Workshop: Biology & Control of Migrant Pests DLDO, Nairobi
- 11.30. 18<sup>th</sup> - 21<sup>st</sup> Jun 1990:** National Striga Weed Workshop, Kisumu, Kenya.

## **12.0. FACILITATION AND/OR COORDINATION OF CONFERENCES/ WORKSHOPS**

- 12.1.** 16<sup>th</sup> – 30<sup>th</sup> Nov. 2003 Facilitator for the 10<sup>th</sup> UNDP/GEF/SGP Stakeholders’ Training Workshop, Garden Hotel Machakos.
- 12.2.** 27<sup>th</sup> – 30<sup>th</sup> Jan. 2003: Facilitator to the 9<sup>th</sup> GEF/SGP Stakeholders Training Workshop, Garden Hotel, Machakos.

## **13.0. PROFESSIONAL TRAINING WORKSHOPS**

- 13.1. 15<sup>th</sup> Jul. – 5<sup>th</sup> Aug. 1979:** ICIPE/UNEP Group Training Course on Pest and Vector Management, Nairobi

## **14.0. PUBLIC LECTURES GIVEN**

- 14.1. 26<sup>th</sup> Nov. 2011:** KMUN National Mock Debate III, Key-note Address “The Elusive global realization of human rights and basic freedoms”.
- 14.2. 3<sup>rd</sup> Feb. 2011:** BANUS Public lecture at Chiromo Campus “The Nexus of Biodiversity Conservation.
- 14.3. 11<sup>th</sup> Nov. 2009:** Lecture at the Goethe Institute, Nairobi: “Worst case scenario: The morning after Kenya’s water resources dry up”.
- 14.4. 15<sup>th</sup> Jan. 2009:** Key-note address titled “Conservation, Sustainable Use and

Benefits Sharing of Biodiversity” given during the launch of the Intellectual Property Initiative (IPI) organized by the Institute of Economic Affairs (IEA) at the Norfolk Hotel, Nairobi.

## 15.0. SUPERVISION OF PhD STUDENTS

(NB: I also served as an Internal Examiner for the Thesis)

- 15.1. **Patrice Kasangaki. Ref. I 80/85801/2012** (UoN. SBS): Characterization of honeybee (*Apis mellifera L*) races and studies on some aspects of their behavior in Uganda. Progress: Completed and Graduated.
- 15.2. **Shadrack Kipkemoi. Ref. A 82/96068/2014.** (UoN – WMI): Natural Resource based conflicts in Tana River County, Kenya. Progress: Graduated.
- 15.3. **Kathambi Bessy Eva. Ref. I 82/99367/2015** An evaluation of the understanding of the Green Concept and its low uptake in Kenya. Progress: Graduated.
- 15.4. **Simeon Saimanga Lesrima. Ref. A 82/96388/2014.** (UoN – WMI): Factors affecting sustainable use of river water by registered water users associations along the Upper Ewaso Nyiro Basin, Kenya. Progress: Examined.
- 15.5. **Willis Ochillo. Ref. I 80/50750/2016 (UoN – SBS):** Distribution and binomial sampling plan for red spider mite (*Acari Tetranychidae*) on tomatoes in Kenya. Progress: Submitted
- 15.6. **Emily N. Kitivo. Ref. 1701/MAC/300037/2014:** (SEKU): The diversity and abundance of insect pollinators in different land use types: A Case Study of Mua Hills location, Machakos. Progress: Examined.
- 15.7. **Esther Adhiambo Abonyo. Ref. I/80/92846/2013** (UoN. SBS): Evaluation of the establishment and efficacy of Stem Borer, biological control agents released in Kenya. Progress: Submitted.
- 15.8. **Asiko Grace (2012):** Pollinating of Strawberries by Stingless Bees in Kenya – Passed
- 15.9. **Muturi Jamleck (2011):** Influence of land use practices on the diversity and density of Collembola in Embu and Taita, Kenya – Passed.
- 15.10. **Obonyo, Dennis (2008):** Tritrophic interactions between parasitoids, lepidopteran stem borers and Bt. Maize in Kenya – Passed.
- 15.11. **Kibberenge, M.B, (Yr of Reg. 2003):** The Diversity of Earthworms and their Ecology in Community Based land management Systems: A case study of Taita and Embu – Submitted.
- 15.12. **Wanja, E.W. (1996):** Title of Project: “Variety Screening in Banana (Musa) for

resistance to the Borer Weevil *Cosmopolities sordidus*” University of Guelph, Canada – passed.

- 15.13. Bekele, J.A. (1995):** Effects and use of some Ocimum Plant Species and their essential oils on some storage insect pests, PhD. University of Nairobi. 1<sup>st</sup> Supervisor – Passed.

## **16.0. SUPERVISION OF MSc STUDENTS**

**(NB:** I also served as an Internal Examiner)

- 16.1. Patricia Nzano, Ref: A60/80596/2015** (UON – WM1): Increasing Kavoko Community’s appreciation of bee conservation as a food production and security strategy. Progress: Graduated.
- 16.2. Virginia Ngendo Kinuthia. Ref: A60/75935/2014** (UON – WMI): Evaluating the impact of sub-division of group ranches on livestock dependent livelihoods at Aimi Ma Kilungu Ranch, Makueni County. Progress: Graduated.
- 16.3. Nkirote Ann (2009):** Reversing and degradation in Kenya: A case study of the GEF-SGP co-financed land degradation cluster projects in Makueni Division, Mukaa District, Kenya – GRADUATED
- 16.4. Willis Ndeda Ochillo (2010):** Impact of Soil Fertility Management Practices on Major Pests of Beans (*Phaesolus vulgaris L.*) and yield in Taita District, Kenya – PASSED.
- 16.5. Wambugu C. (2007):** Survey of soil mites (*Acari*) diversity and densities in different land use types in Embu and Taita Districts, Kenya – PASSED.
- 16.6. Kitivo E.N. (Mrs.) (2007):** The Diversity and abundance of subterranean termites in different land cover types: A case study of Embu and Taita Hills, Kenya - GRADUATED
- 16.7. Magambo, E. (Mrs) (2006):** STATUS OF LAND DEGRADATION OF Kaketa riverine ecosystem and its impact on people’s livelihoods – PASSED.
- 16.8. Kandie, P.K. (MSc. 2006):** Integrated management of bean bruchid, *Acanthoscelides obtectus* Say (Coleoptera : Bruchidae), on stored beans in Eastern Kenya – PASSED.
- 16.9. Mwangi F.G. (MSc . 2006):** Evaluating of bordercrops, intercrops and pesticides and management strategies of thrips (*Frankliniella occidentalis* and *Megalulothrips sjostedti*) on French beans (*Phaseolus vulgaris* (L) – PASSED.
- 16.10. Ondiaka Sopher (MSc. 2006):** Pathogenicity of entomopathogenic fungi *Beauveria Bossiana* (Balsamo) Vullenmin and *Metarhizium anisophiae* (Metsch)

Sorokin to (Metsch) Sorokin to *Cylas puncticollis* (Coleoptera: Curculionidae) on sweet potato tuber – PASSED.

- 16.11. Oronje Rosemary (MSc. 2006):** Efficacy of *Steinernema kari* and *Heterorhabditis indica* in the management of sweet potato weevil (*Cylas Puncticollis*) in Kibwezi – PASSED.
- 16.12. Sila Martha (MSc. 2004):** Efficacy of *Steinernema kari* and *Heterorhabditis indica* in the management of the sweet potato weevil (*Cylas puncticollis*) in Kibwezi – PASSED.
- 16.13. Kasina, J.M. (MSc. 2004):** Evaluation of plant extracts, intercropping and companion crops as IPM components for thrips (*Frankiniella occidentalis* Perganda) and *Megalurothrips sjostedti* (Tryborn) on French beans (*Phaseolus vulgaris*) – PASSED
- 16.14. Ochieng' P. (2000):** The insect fauna of Nairobi National Park and the need for their conservation for eco-tourism development – PASSED.
- 16.15. Ochiel, B.A. (2000):** Termites – host tree relationships in Kibwezi and their response to two botanical pesticides, namely *Melia volkensii* (Gurke) and *Azandiracta indica* – PASSED.
- 16.16. Gikungu, M.W. (MSc.):** Studies in the populations of stingless bees and their food availability in Mount Kenya forest – PASSED.
- 16.17. Ngari, B.M. (1998):** The role of natural enemies in population regulation of bean fly complex *Ophiomyia* Spp in Kakamega, Kenya. 1<sup>st</sup> Supervisor – PASSED.
- 16.18. Waiganjo, M.M. (1996):** The biology and ecology of Diamond Back moth *Plutella xylostella* (L) with special reference to susceptibility of six varieties grown in Kenya. 1<sup>st</sup> Supervisor – PASSED.
- 16.19. Mwangi, C.G.K. (1996):** Evaluating of different acaricide mixture on the control of the red spider mite *Tetranychus telarius* (Linnaeus) on cotton, M.Sc., University of Nairobi, 1<sup>st</sup> Supervisor – PASSED
- 16.20. Kamande, S. (1995):** The efficacy of various products on the preservation of wood exposed to termite attack at Chiromo, Nairobi. 1<sup>st</sup> Supervisor – PASSED:
- 16.21. Mugo, H.M. (1994):** Pod borer insect pests attacking pigeon pea, *Cajanus Milisp* at flowering stages and their impact on yield in Kenya. MSc., University of Nairobi. 1<sup>st</sup> Supervisor – PASSED.
- 16.22. Bett, P.K. (1993):** Food preferences of *Acanthoscelides obtectus* (Coleoptera: Bruchidae), Oviposition behaviour and its effects on bean varieties, MSc. 1<sup>st</sup> Supervisor - PASSED.

## **17.0. EXTERNAL EXAMINATION**

- 17.1. Jul 22-Dec 2018:** External examination, University of Dar-es- Salaam, College of Education
- 17.2. 2014:** External examination of a MSc Thesis by Mr. Eric Bushuru Luvonga entitled: “Diversity and Pollination efficiency of flower visiting insects associated with Avocado along the slopes of Taita Hills in Kenya”. Masinde Muliro University of Science and Technology, Kakamega, Kenya.
- 17.3. 2014:** External examination of a MSc Report on Mr. Maurice Olukwoli Muchele entitled, “Efficacy of Imidacloprid pesticide formulations on the tobacco pests, *Benisia tabaci*, and *Myzus nicotianae* in Western Kenya. Masinde Muliro University of Science and Technology, Kakamega, Kenya.
- 17.4. 2010:** MSc Thesis by Margaret Orengei Kababu, Kenyatta University.
- 17.5. 2010:** MSc Thesis by Jane Ndegi Mugambi, Kenyatta University
- 17.6. ....**External Examiner, Kenya Methodist University, Meru.

## **18.0. AREAS OF RESPONSIBILITY AND LEADERSHIP**

### **At University Level**

- 18.1. 2011 – 2018:** SBS Representative to Senate.
- 18.2. 2006 – To date:** Chairman, Staff Welfare Committee.
- 18.3. 1996 – 2004:** Co-ordinator, Zoology Postgraduate Studies Committee.
- 18.4.** Member of Departmental Committee on Planning, Programming, Budgeting and Financing of the University of Nairobi (Year 1996).
- 18.5.** Member of Zoology Department Syllabus Review Committee.

## **19.0. AREAS OF RESPONSIBILITY AND LEADERSHIP**

### **At National Level**

- 19.1. 2015:** Member of the Natural Resources Management Committee (NRM) of the Association of Professional Societies of East Africa (APSEA).
- 19.2. 2010: Member of Kenya Delegation to the 14th Session of SBSTTA** (Subsidiary Body for Technical and Technological Advice) of the CBD (Convention on Biological Diversity), UNEP, Nairobi, Kenya.
- 19.3. 2006:** Member of Civil Society Delegation attending the 12th COP –UNFCCC,

Nairobi, Kenya.

- 19.4. 2006:** Member of the Kenya Delegation to the 8th Conference of Parties acting as the 3rd Meeting of Parties to the Cartagena Protocol (COP-OP3) of the Convention on Biological Diversity, Curitiba, Brazil.
- 19.5. 2005:** Member of the Kenya Delegation to the 7th COP-UNCCD, Nairobi, Kenya.
- 19.6. 2000:** Member of the Kenya Delegation to the 5th COP CBD, Nairobi, Kenya.
- 19.7. 1998 – May 2000:** Chairman Technical Committee for the Kenya Delegation to the 5<sup>th</sup> Conference of parties to the CBD.
- 19.8. 1999:** Member of the Kenya Delegation to the 4<sup>th</sup> COP–CBD, Bratislava, Slovakia.
- 19.9. 1998–2000:** Chairman of the Biodiversity Sub-Committee of the (IMCE):
- 19.10. 1994 – 2000:** Member of the Inter-Ministerial Committee on Environment, Sub-Committee on Biodiversity (IMCE).

## **20.0. AREAS OF RESPONSIBILITY AND LEADERSHIP**

### **At Community Level**

- 20.1. 2018 – To date:** Member of AIC Jericho, “Men be Men” Group.
- 20.2. 2012 – To date:** Member of Makueni County Development Forum (MCDF)
- 20.3. 2004–To date:** Secretary, Board of Directors, Aimi Ma Kilungu Co. Ltd. A 25,000 acre ranch with 1500 members.
- 20.4. 1994-To Date:** Founder and Executive Director, Kenya Initiatives for Development, an NGO.
- 20.5. 1991 to 1999:** Served as a Board Member for Mukaa Secondary School.

## **21.0. FUNDED PROJECTS**

- 21.1.** Conservation and sustainable management of below ground biodiversity. A global GEF project. Head of Macrofauna Group. (A GEF full size project (PROJECT CONCLUDED). (Year 2015)
- 21.2.** Development of guidelines for the management of land degradation in Makueni District. (COMPLETED). A GEF/SGP cluster project. US\$ 300,000 (2004–2010).
- 21.3.** Assessment of pollinators and their role in the conservation of dry land biodiversity in Makueni District, Kenya. (CONCLUDED). A project funded by the RPSUD, US\$ 20,000 (2004 – 2006).
- 21.4.** Development and implementation of Management Strategies for Sweet Potato

Weevil, *Cylas* sp. In Eastern Kenya. A Research funded by the Rockefeller Foundation – Forum on Agriculture, Resource Husbandry – (2001). (CONCLUDED) US\$ 65,000 (CONCLUDED).

## **22.0. ENVIRONMENTAL IMPACT ASSESSMENT (EIA) STUDY REPORTS SUBMITTED TO NEMA**

- 22.1. Nyamasyo G.H.N. & Gichangi D.M. (2016).** EIA report for the proposed 70,000 TPY Steel Making Sponge Iron Production Plant, Athi River. Client: Devki Steel Mills Ltd.
- 22.2. Nyamasyo G.H.N. (2012).** EIA Construction of Temporary Structures to house the Proposed Leisure Village on Plot No. L.R. 18062, Athi River. Client: James Mbogo Kariuki
- 22.3. Nyamasyo G.H.N. & Mbogo L.W. (Feb 2011):** Environmental Impact Assessment Study Report on the proposed sub-division of the 17,479 acres on Konza Ranch, Ref No. NEMA/EIA/5/2/719, Mukaa District.
- 22.4. Nyamasyo G.H.N. & Mbogo L.W. (Feb 2011):** Environmental Impact Assessment Study Report on the proposed sub-division of the 5,745 acres of Kima Ranch, Ref No. NEMA/EIA/5/2/712, Mukaa District.
- 22.5. Nyamasyo G.H.N. & Okinyo Victor (Aug. 2011):** Environmental Impact Assessment Study Report on the proposed Clinker Manufacturing Plant and the related limestone quarries at Merruseshi Location, Kajiado District, Ref No. NEMA/EIA/5/.....
- 22.6. Nyamasyo G.H.N. & Mbogo L.W. (Jan 2011):** Environmental Impact Assessment Study Report on the proposed sub-division of the remaining 3,053 acres of Kiu Ranch, Ref No. NEMA/EIA/5/2/759, Mukaa District.
- 22.7. Nyamasyo G.H.N. & Okinyo Victor (Nov 2010):** Environmental Impact Assessment Report for Proposed Domestic Water Bore-Hole Project on L.R. Aimi Ma Kilungu/1212, Salama Location, Mukaa District. Ref No. NEMA/PR/5/2/7893.
- 22.8. Nyamasyo G.H.N. & Okinyo Victor (Nov 2010):** EIA Project Report for the proposed Karura Kanyungu Base Transceiver Station in Kiambu District, Karura Division, Kihara Location, Karura Sub-Location. Ref: NEMA/PR/5/2/7948.
- 22.9. Nyamasyo G.H.N. & Okinyo Victor (Aug 2010):** E.I.A Report for the proposed Kayole Jua Kali Base Transceiver Station in Embakasi District, Njiru Division, Njiru Sub-Location Ref No. NEMA/PR/5/2/7938.

**22.10. Nyamasyo G.H.N. & Mbogo L.W. (Jul 2011):** E.I.A Project Report for proposed Domestic Water Bore-Hole Project on L.R. ULU No. 162/2, Salama Area, Mukaa District. Ref No. NEMA/PR/5/2/3588.

**22.11. Nyamasyo G.H.N. & Okinyo Victor (Nov. 2010):** EIA Project Report for the proposed Kyambeke base transceiver station in Makueni District, Wautu Division, Kilungu Location, Ndolo Sub-Location. Ref: NEMA/PR/5/2/7937.

**23.0. PARTICIPATION AS AN EIA EXPERT DURING NEMA PUBLIC HEARING MEETINGS.**

**23.1. 30<sup>th</sup> June 2011:** NEMA public hearing on the proposed sub-division of the 3000 acres of Kima Ranch.

**23.2. 16<sup>th</sup> June 2011:** NEMA public hearing on the proposed sub-division of the 17,479 acres of Konza Ranch.

**23.3. 18<sup>th</sup> July 2005 (morning):** NEMA public hearing on the proposed sub-division of the 25000 acres, Aimi Ma Kilungu Ranch.

**23.4. 18<sup>th</sup> July 2005 (afternoon):** NEMA public hearing on the proposed sub-division of the 25000 acres, Malili Ranch.

**23.5. NEMA** public hearing on the proposed National Cement Factory at Athi River (new Lukenya) i.e. Simba Cement).

**24.0. ENVIRONMENTAL AUDIT REPORTS SUBMITTED TO NEMA (Selected from Over 300)**

**24.1. Nyamasyo G.H.N. & Gichangi D.M. (Dec 2016):** Environmental Audit Report for the Kiu Ranch Land Sub-Division Project.

**24.2. Nyamasyo G.H.N. & Mbogo L.W. (2013):** Environmental Audit Report for Aimi Ma Kilungu Land Sub-Division Project.

**24.3. Nyamasyo G.H.N. & Okinyo Victor (April 2011):** EA Report of Devki Steel Mills – Mombasa Branch – Ref No. NEMA/EA/5/2/2035.

**24.4. Nyamasyo G.H.N. & Okinyo Victor (April 2011):** EA Report of Devki Steel Mills – Athi River – Ref. No. NEMA/EA/5/2/1987.

**24.5. Nyamasyo G.H.N. & Okinyo Victor (April 2011):** EA Report of Devki Steel Mills – Ruiru Branch – Ref No. NEMA/EA/5/2/4271.

**24.6. Nyamasyo G.H.N. & Okinyo Victor (April 2011):** EA Report of Maisha Mabati Mills – Ruiru – Ref No. NEMA/EA/5/2/7610.



**25.0. DEVELOPMENT OF POLICY PAPERS, REGULATIONS AND STRATEGIES.**

- 25.1. 2018/2019:** Drafting of an appropriate law for the “Access to Genetic resources and the Sharing of the Accruing Benefits (ABS)”. A Consultancy Project for the UNDP-GoK.
- 25.2. 2015:** National Resource Development and Management Policy and Bill by the APSEA (WRM Committee).
- 25.3. October 2010:** A conceptual framework for the development of a national pollinators conservation and pollination policy.
- 25.4. March 2010:** A conceptual framework for the development of a national policy on the conservation and sustainable management of agricultural biodiversity.
- 25.5.** Development of the AIC Jericho Strategic Plan 2009 – 2013.
- 25.6.** Member of the task force on the development of regulations on conservation and the protection of ecologically sensitive sites.
- 25.7.** Member of the task force on the development of regulations on access and benefits sharing of biodiversity.
- 25.8.** Member of the task force on the development of the National Biodiversity Strategy and Action Plan.

**26.0. COURSE UNITS TAUGHT AT UNIVERSITY LEVEL**

	<b>COURSE UNIT</b>	<b>CODE</b>	<b>YEAR OF STUDY</b>
<b>PhD Course Units</b>			
26.1.	Integrated Environment Management	WMI 704	Ph.D
26.2.	Ecosystems, Principles and Concepts	WMI 703	PhD
<b>MSc Course Units</b>			
26.3	Integrated Natural Resource Management	WMI 604	M.Sc
26.4	Crop pests and beneficial insects	SZL 530	MSc.
26.5	Pesticide chemistry and applications	SZL 533	MSc.
26.6	Assessment of field crop losses due to insects	SZL 532	MSc.
26.7	Pest Management	SZL 531	MSc.
26.8	Stored products pests and their control	SZL 534 SZL 535 SZL 536	MSc.

26.9	Conservation of biological diversity	CGP 533	MA
26.10	Environmental management and sustainable development	CGP 525	MA
26.11	Environmental protection	CGP 520	MA
26.12	Conflicts in resources use and the environment	CGP 527	MA
<b>BSc Course Units</b>			
26.13	Applied entomology	SZL 405	B.Sc IV
26.14	Agroecology and agroecosystems	SBE 401	B.Sc IV
26.15	Environmental Auditing & Economics	SZE 404	B.Sc IV
26.16	Animal ecology and behaviour	SZL 203	B.Sc II

## **27.0. YOUTH MENTORSHIP:**

**27.1. 2011- 2014:** Patron Kenya Model United Nations (KMUN)- Chiromo Chapter.

**27.2. 2010:** Lydia Wanjiru Mbogo, Facilitated and guided to undertake an MSc. in the Biology of Conservation.

**27.3. 2010:** Loise Nduta. Facilitated and guided to undertake Community Development Projects beginning with serving as a Programme Officer for the AIC – Jericho Fund-Raising Committee.

**27.4. 2008:** W. Ochillo, Facilitated and guided to carry out the EIA Study report for the Kilome Land degradation Project.

**27.5. 2007:** M. Mugeru, S.K. Ondiakha, P.N. Karoki, and B. Njoka. Facilitated and guided to carry out the baseline study for the Kilome land degradation project.

**27.6. 2006:** M. Mugeru, P. Rapando, Ms. M.M. Namusonge, Ms. G. Ngaruiya, Ms. D. Odongo, Ms. C.W. Maina, Ms. L. Mugo. Facilitated and guided to carry out the baseline study for Aimi Ma Kilungu Ranch.

**27.7. 2005:** Ms. S. Wachira, S. Maundu, Ms. S. Mbai, Ms. R.N. Chege, Ms. L. Wodera, Ms. M.L. Oronje. Facilitated and trained to participate in the 7<sup>th</sup> COP of the UNCCD.

## **28.0. COMMUNITY MENTORSHIP**

**2004 – To Date:** Played a guiding role to Ten CBOs in their efforts to implement environmental development projects. These are:

**28.1. Meko Ma Kwa Nduuka Women Group** which has built a check dam at Kwa Nduuka across the lower Kaketa River. The dam provides water to the

community and the Mukaa Girls Secondary School especially during the dry season.

- 28.2. Kiumoni Environmental Rehabilitation Group** has dug several Km lengths of cut off trenches to reduce soil erosion at the Upper Kaketa River near Kilome forest block.
- 28.3. Wema Self Help Group** has constructed 3 check dams across the USI-UNENE RIVER which has turned the river into a sand-holding system.
- 28.4. Ndaatai CBO** has dug cut-off trenches around and across the Kavuko hill-sides.
- 28.5. Kavuko FFS CBO** has dug cut-off trenches along the Kavuko hillsides.
- 28.6. Aimi ma Kavuko CBO** has dug cut-off trenches along the Kathungu hill-sides.
- 28.7. Kavuko Self Help Group** has built 5 gabions across Kwa Kikwu gully.
- 28.8. Thome wa Kima CBO** has successfully de-silted the Mbuu dam.
- 28.9. Wasya wa Tuvilani** has successfully de-silted the Kyule dam.
- 28.10. Pollen Youth Group** has successfully initiated and managed bee-keeping and water distribution projects and planted over 5000 sisal plants on Kyundu Hill.

#### **29.0. ESTABLISHMENT OF LOCAL COMMUNITY EMPOWERMENT FACILITIES**

- 29.1.** The Kavuko Community Centre: a facility for empowering communities and individuals in various aspects of development.
- 29.2.** Kavuko Honey House: a facility for the promotion of bee keeping activities.

#### **30.0. PARTICIPATION IN RELIGIOUS ACTIVITIES.**

- 30.1. 2006 – 2008:** Co-ordinator Fund Raising Committee, AIC Jericho, Nairobi
- 30.2. 1997 – 2002:** Vice Chairman, Development Committee, AIC Jericho, Nairobi.

#### **31.0. DIRECTORSHIP OF COMPANIES**

- 31.1. 2018 – to date:** Director, Small Ruminants Research Ltd (SRRLtd). Registered on 6<sup>th</sup> November 2018. Reg. No. PVT-3QURXK. For validation, send the word BRS to 21546.
- 31.2. 2004 – to date:** Director and Secretary to the Board of Directors of Aimi Ma Kilungu Co. Ltd.

#### **32.0. MEMBERSHIP OF PROFESSIONAL BODIES**

**32.1.** Member of the Institute of Economic Affairs (IEA)

**32.2.** Member of the Kenya Climate Change Working Group (KCCWG).

### **33.0. ESTABLISHMENT AND/OR MEMBERSHIP OF ORGANIZATIONS**

**33.1. 2014-to date** Member of the Environment Institute of Kenya (EIK)

**33.2. 2011 –** Founder Member of the Makueni County Development Forum (MCDF).

**33.3. 1994 –** Established the Kenya Initiatives for Development (KID) of which I am still the Chairman.

### **34.0. REFEREES**

**34.1. Prof. T.K. Mukiama**

University of Nairobi.  
School of Biological Sciences  
P.O. Box 30197 - 00100  
Nairobi

**34.2. Prof. K.M. Mavuti**

University of Nairobi.  
School of Biological Sciences  
P.O. Box 30197 - 00100  
Nairobi

**34.3. Prof. J.H. Nderitu**

University of Nairobi.  
Kabete Campus  
School of Biological Sciences  
P.O. Box 30197 - 00100  
Nairobi