

# DETAILED CURRICULUM VITAE

## PROFESSOR NATHAN NDEGWA GICHUKI

### 1. Personal Information

Full Name: **Gichuki, Nathan Ndegwa.**  
Nationality: Kenyan.  
Date of birth: 20th August 1953.  
Passport: Valid Kenyan Passport since 1989.  
Driving License: Valid and clean since 1980.  
Official Postal Address: School of Biological Sciences, University of Nairobi,  
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### 2. Educational qualifications

**Ph.D.** (1993): Churchill College, Cambridge University, United Kingdom.

**M.Sc.** (1983): Department of Zoology, College of Biological and Physical Sciences, University of Nairobi.

**B.Sc. (Hon)** (1978): Department of Zoology, University of Nairobi.

**East African Advanced Certificate of Secondary Education: Two Principals One subsidiary** (1973-1974): Nyeri High School, Kenya.

**East African Certificate of Secondary Education** (1969-1972): Division 1 (Muhoho High School).

Certificate of Primary Education (B+), (1962-1968): Simbara Primary School, Nyandarua North.

### 3. Academic positions held within the University of Nairobi.

Associate Professor, School of Biological Sciences, University of Nairobi, 2012 - Present

Senior Lecturer, School of Biological Sciences, University of Nairobi (2004 – 2011).

Lecturer, Department of Zoology, University of Nairobi, (1988-1990).

Assistant Lecturer, Department of Zoology, University of Nairobi, (1985-1987).

#### **4. Administrative and Professional Positions held in the University**

##### **a) Administrative Positions:**

- Acting Director, School of Biological Sciences, University of Nairobi (2009/2010).
- Acting Chairman, Department of Zoology, University of Nairobi, Kenya (July/ August 2007)
- Coordinator, Open and Distance Learning Programme (ODeL), 2005 - Present.
- **Coordinator:** Research Projects for B.Sc. Environmental Conservation and Natural Resource Management (2010-Present)

##### **b) Professional and academic positions**

**Lecturer Undergraduate Courses:** Fundamentals of Ecology, Vertebrate Zoology, Biostatistics and Research Methods, Environmental Impact Assessment and Audit and Conservation in International Trade and Development and History and Philosophy of Biology.

**Lecturer Postgraduate Courses:** Behavioural Ecology, Advanced Biostatistics and Modeling, Vertebrate Zoology and Ecological Physiology.

**Secretary,** Strategic Planning Committee, School of Biological Sciences (2008)

**Patron,** Environmental Awareness Club, College of Biological and Physical Sciences

**Patron,** Environmental Communications Club, College of Biological and Physical Sciences

**Chairman,** Animal Welfare Curriculum Development Committee, School of Biological Sciences.

**Student Mentor:** Fourth Year Student (2012 – Present)

**Resource Person:** Postgraduate Curriculum Review: Karatina University and South Eastern University

##### **c) Appointments as external examiner and thesis marked**

###### **Postgraduate thesis:**

###### **Master of Science and Master of Environmental Studies Thesis:**

- Kenyatta University (2002-2004) –Marked thesis = 36
- Moi University (10) (2006-2013) – Marked thesis = 12
- University of Eldoret (2006-2014) (Marked thesis = 8
- Maasai Mara University (2015-2018) Marked thesis = 2
- Karatina University (2011-2016) Marked thesis = 4

###### **Doctor of Philosophy thesis:**

- University of Nairobi (11)

- University of Natal, South Africa (1)
- Kenyatta University (6).
- Makerere University (1)
- University of Dar es Salaam (1)

### **Undergraduate and postgraduate external examination appointments**

School of Science and Informatics, Maasai Mara University (2017-2019)

School of Natural Resources and Environmental Studies, Karatina University College (2011-2013).

School of Natural Resources and Environmental Studies, Karatina University (2013-2015).

School of Natural Resource Management, Moi University (206-2009)

School of Natural Resource Management, University of Eldoret (2012-2014)

Department of Veterinary Anatomy and Physiology, University of Nairobi (2003-2006)

Department of Environmental Science, Kenyatta University (2003-2005)

Department of Zoology, University of Nairobi (2001-2003)

## **5. Professional and Administrative Positions Held Outside the University**

### **5.1 Professional positions**

**Elected Member of the Executive Committee:** International Ornithological Congress (2004 – Present, Hamburg, Federal Republic of Germany)

**Technical Committee Member:** Kenya Wetland Biodiversity Network (Kenweb IRD/European Union) 2009-Present.

**Assistant Editor-in-Chief:** Samaki News, Journal of Ministry Fisheries Development, Kenya, GOK (2003 - Present).

**Manuscript Reviewer:** African Journal of Ecology (2008 – Present), Ethiopian Journal of Biological Sciences (Addis Ababa), Kenya National Academy of Science (Biology Journal) (2006-Present).

**Chairman,** National Steering Committee of GEF/UNDP/ICIPE Taxonomic Network for Eastern Africa (BOZONET). (2005-2008)

**Visiting Lecturer:** Department of Environmental Science, Kenyatta University 1995-1997.

**Visiting Lecturer:** St. Lawrence University, Karen Campus, Nairobi, (2003-2005).

### **5.2. Administrative positions**

**Principal Co-Investigator:** International Research and Education Programme: Tulane and St. Xavier University/ University of Nairobi and National Museum of Kenya, 2010-2016).

**Assistant Director,** National Museums of Kenya, Nairobi, (2002- May 2004).

**Senior Scientist and Head,** Wetlands Research Programme, National Museums of Kenya, Nairobi, 1993-2002.

**Project Coordinator:** UNDP/UNEP Nairobi River Basin Rehabilitation Project, Community Waste Management Project (2006-2009)

**Programme Manager,** GEF/UNDP Conservation and Management of Biodiversity in the Eastern Rift Valley Lakes, Kenya. (1999 – 2003).

**Project Manager,** WWF- Community Wetland Conservation Project, Kitale, Kenya. (1989-1993)

**Technical Officer,** (GoK/FAO) Migratory Pests Control Programme for Eastern Africa, Nairobi (1980-1983).

**Agricultural Research Scientist** (Crop Protection), National Agricultural Research Centre, Njoro, Kenya, (1978-1984)

## **6. Scientific Publications**

**Musila, S., Pravol, P. and Gichuki, N.N. (2018).** Knowledge and perceptions of, and attitudes to bats by people living around Arabuko Sokeke Forest, Malindi, Kenya. **Anthrozoos: 31 (2):** 247-262.

**Kairu, A.W. Gichuki N.N., Kanya, J.I. and Roeland K., (2014).** Environmental factors influencing the structure and distribution of the East African Greenheart tree (*Warburgia ugandensis* Sprague) in Mt. Kenya Forest. *International Journal of Biodiversity and Conservation* (6) Number 6: 452-458.

**Chege, H.N., Oganda, M.O. and Gichuki, N.N. (2014).** Temporal detection patterns of the African Otter *Aonyx capensis* (Schinz, 1821) in the Laikipia plateau of central Kenya. *IUCN Otter Specialist Group Bulletin*, 21 (1): 44-48.

Tuqa, J.H.P. Funston, C. Musyoki, G.O. Ojwang, **N.N. Gichuki**, H. Bauer, W. Tamis, S. Dolrenry, M. Vant Zelfde, G.R. de Snoo and H.H. de Longh **(2014).** Impact of severe climate variability on lion home range and movement patterns in the Amboseli Ecosystem, Kenya. *Global ecology and Conservation* 2(2014): 1-10.

**Ray C. Schmidt, Henry L. Bart Jr, Dorothy W. Nyingi and Gichuki, N.N. (2014).** Phylogeny of sucker mouth cat fishes (Mochokidae: Chiloglanis) from Kenya: The utility of growth hormone introns in species level phylogenies. *Molecular Phylogenetics and Evolution* 79 (2014): 415-421.

**Chege, H.N., Oganda, M.O. and Gichuki, N.N. (2013)** What's on the menu: important food sources for the Aquatic mesocarnivore in the Laikipia Ecosystem, central Kenya. *Reyono Journal of Inter-disciplinary Studies*, 2(2): 121-130. ISSN 2277-7652.

**Gichuki, N.N., Austin U. Dennis, and Cecilia M. Gichuki 2013.** The role of conservation biology in promoting biodiversity conservation and climate change adaptation in Kenya. Proceedings of the International Conference on Biodiversity and Climate Change Adaptation in Kenya. July 22-25, 2013. National Museums of Kenya, Nairobi.

**Gichuki, N.N., Bart, L.B., and Wanja, D. (2013).** Fresh water fish Biodiversity in Kenya. Pan-African Fish and Fisheries Conference, Bujumbura, Burundi. September, 2013.

**Gichuki, N.N. and Denis, A.U. (2012)** Ecologically sustainable technologies for peace and socio-economic development in Africa. *Hekima Review Journal*, (3) January 2013.

Denis, A.U. and **Gichuki, N.N. (2012).** Effects of legume-based rotational cropping on Rhizobia Assemblage in an Irrigated Rangeland in Southern Kenya. **Journal of Environmental, Cultural, Economic and Social Sustainability**. Online Link: <http://s12.cgpublisher.com/proposals/571>.

Otieno N.E., **Gichuki, N.N.**, Farwig N. and Kiboi, S. (2011). The role of farm structure on bird assemblages around a tropical rainforest. **African Journal of Ecology** (44): 1-8

Ali, A.A., Gitau A.N., Hassan M.A, Gumbe L.O. and **Gichuki N.N.** (2010). Household waste generation and management practices in Nairobi, Kenya. *Waste Management (Elsevier)* 30: 1752-1755.

Nyamweya, H. N. and **Gichuki, N.N** (2010). Effects of plant structure on butterfly diversity in Mt. Marsabit Forest – northern Kenya. **African Journal of Ecology**, 48: 304-312.

**Gichuki, N.N.** (2009). Characteristics of fish-eating birds in Lake Baringo, Kenya. **Journal of Fisheries Management** 6 (1): 55-57.

Barasa F.B., Mwangi, E.M. and **Gichuki, N. N.** (2008). Bird species richness and abundance in different forest types in Kakamega Forest, Kenya. **Ostrich** (76): 81-83

Ntiba, M.J. and **Gichuki, N.N.** (2008). Impacts of global climate change on coastal ecosystems of Kenya. **Journal of Fisheries Management** 5(1): 44-46.

Lukhoba, C.W. & **Gichuki, N.N.** (eds), 2007 Linking Taxonomy to Conservation. Botanical and Zoological Network in Eastern Africa. Nairobi: **Global Environment Facility & United Nations Development Programme**. Pp. 35.

Ndiritu, G.G., **Gichuki, N.N.**, & Triest, L. (2006). Distribution of epilithic diatoms in response to environmental conditions in an urban tropical stream, Central Kenya. **Biodiversity and Conservation**, **15**: 3267-3293.

**Gichuki N.N.** and Githaiga, J.M (2006). *Fundamentals of Ecology*. A Handbook for Distance Learners in Bachelor of Education (Science). College of Education and of External Studies, University of Nairobi, Kenya.

Githaiga, J.M and **Gichuki N.N** (2006). *Biostatistics*. A Handbook for Distance Learners in Bachelor of Education (Science). Faculty of External Studies, University of Nairobi, Kenya.

Odada, E. O., Orago, D. O., Ochola, W., Ntiba, M., Wandiga, S. O., **Gichuki, N.N** & Oyieke, H.A. (Eds.). **Proceedings of World Lakes Conference**, Volume I and Volume II, UNEP Regional Office for Africa, Nairobi, Kenya.

**Gichuki, N.N.**, Oyieke, H.A and Terer T. (2005). Status and root causes of biodiversity loss in the eastern Rift Valley lakes, Kenya. In: Odada, E. O., Orago, D. O., Ochola, W., Ntiba, M., Wandiga, S. O., **Gichuki, N.N** & Oyieke, H.A. (eds.). *World Lakes Conference*, Pages 511-517., Nairobi, Kenya.

Matagi, S. & **Gichuki, N.N.**, (2005). Ecology of South Eastern Rift Valley Lakes and their Watersheds. In: Michelle L. Thieme, Robin Abell, Melanie L.J. Stiassny and Paul Skelton (Eds). *Freshwater Eco-regions of Africa and Madagascar*. Worldwide Fund for Nature: Island Press, Washington.

Njagi, E. Abebe Getahun and **Gichuki, N.N.** (2005). Socio-economic aspects of Lake Jipe fisheries, Kenya. In: Kamondo, B., Malo, M., Ochuodho, T. and Opanga, O. (Eds). **Biodiversity Research for Livelihood Support and Food Security: Journal of Dry Land Research**, (4): Pages: 95-100.

Ndaruga, A.M., Ndiritu, G.G. Gichuki, N.N. & Wamicha, W.N. (2004). Impact of Water Quality on Macro-invertebrate Assemblages along a Tropical Stream in Kenya. *African Journal of Ecology*, **42**: 208-216.

Terer, T. and **Gichuki, N.N.** 2004. Community drought coping strategies, tactics and challenges to sustainable biodiversity management in dry lands with special reference to the Maasai and Turkana people of Kenya. **Journal of Dry Land Biodiversity** (3): 67-77.

Terer, T., Ndiritu G.G. and **Gichuki, N. N.** 2004. Socio-economic values and traditional strategies of managing wetland resources in Lower Tana River, Kenya. **Hydrobiologia**, **527** (1): 3-14.

**Gichuki N.N.** & Macharia J.M. 2003. Participation of local communities in the management of wetland resources in semi-arid areas in Kenya. In: *Lemons, J.D., R. Victor & Schaffer D. (eds.) Conserving Biodiversity in Arid Regions*. Kluwer Academic Publishers pp 87-103. **Third World Academy of Sciences**.

Oyieke, H., Khayota B., Kamondo, B. Ochuodho T., **Gichuki, N. N. and Busienei, W. (editors)** 2003. Sustainable Biodiversity Management for reduced community vulnerability to drought in Eastern Africa. Regional Programme for Sustainable Use of Dry land Biodiversity in Eastern Africa. Pp 268

**Gichuki N.N.** 2001. Impact of agricultural production on wetlands in Africa. In: *Finlayson, M. (ed.) Wetlands in a Changing World*. Wetlands International. Wengeningen, Netherlands. p. 13-17.

**Gichuki, N.N.** 2000. Influence of breeding on foraging behaviour and diet of crowned cranes. **Ostrich** **71** (1&2):74-79.

**Gichuki, N.N.** (2000). Contribution of indigenous knowledge to the advancement of ornithology: Old ways to the future. In: Adams, N.J. & Slotow, R.H. (eds), 22<sup>nd</sup> International Ornithological Congress, 1337-1338.

Gichuki. C.M., & **Gichuki, N.N.** (2000). Comparative ecology and morphology of snipes (Family *Scolopacidae*) in Africa. In: Rheinwald, G. (ed). Isolated Vertebrate Communities in the Tropics. **Bonn Zoological Monographs**, **46**: 199-207.

Gichuki, N.N. and Fotso, R. 1999. Contribution of indigenous knowledge to the advancement of ornithology: old ways to the future. *Ostrich* (Supplement): 1337-1338.

Gichuki, N.N. 1999. Contribution of indigenous knowledge to bird conservation in Africa. *Ostrich* **70** (1): 1345-1350.

Gichuki, N.N. 1998. Integration of conservation and development activities in Lake Ol Bolossat Basin, Kenya. In: Macharia G., Manegene, S. and Gitau, S. (eds). Proceedings of Lake Ol Bolossat Conservation and Development Workshop. Kenya Wildlife Service, Nairobi.

Gichuki N.N. and Ndiritu, G.G. 1998. Wetlands: Kenya's natural heritage. Mimeograph published in NATION Newspaper 5 January 1998. P. 25.

Gichuki, N.N. 1998. Constructed wetlands for wastewater treatment: a new concept. Unpublished paper presented on World Wetlands Day. 31 January 1998. Centre for Biodiversity Publications: National Museums of Kenya. Nairobi.

Gichuki, N.N. and Nasirwa, O. (eds) 1997. Contribution of NGOs to Wetland Policy Development Process in Kenya. Kenya Wetland Working Group and IUCN-World Conservation Union: Nairobi. 39 pp.

Gichuki, N.N. 1997. Policy issues pertaining to wetlands in Kenya. In: Gichuki, N.N. and Nasirwa, O. (Eds). Contribution of NGOs to wetland Policy Development Process in Kenya p 14-15. Kenya Wetland Working Group and IUCN-World Conservation Union: Nairobi.

Gichuki, N.N. and Njuguna, P.K. 1997. Progress towards developing a national Wetlands inventory in Kenya. In: Njuguna, P.K., Gichuki, N.N. and Howard. G.W. (eds). Current research and inventory activities in Kenyan Wetlands. Kenya Wetland Working Group/National Museums of Kenya/IUCN-World Conservation Union, Nairobi. p. 28-31.

Gichuki, N.N. 1997. Biodiversity Conservation and sustainable utilization in the Rift Valley Lakes of Eastern Africa. A GEF Project Concept Paper. National Museums of Kenya: Nairobi.

Gichuki, N.N. 1997. Buffering capacity of wetlands with special reference to Lake Victoria Proc. Wetland Inventory Training Workshop for District Environment Protection Officers. Busia, Kenya. Kenya Government (National Environment Secretariat): Nairobi, Kenya.

Gichuki, N.N. 1997. Wetland biodiversity values and their potential for sustainable utilization in dry lands. Proc. Dry land Biodiversity Management Conference. SAREC, Regional Programme on sustainable utilization of dry lands in Eastern Africa, Nairobi, Kenya.

Nzengya, D.M. and Gichuki, N.N. 1997. The performance of constructed wetlands in wastewater treatment: a case study of the Carnivore/Splash Wetland in Nairobi, Kenya. Proc. East African Environment Network Conference East African Wildlife Society: Nairobi.

Gichuki, N.N., Wakanene, K. and Ndiritu, G.G. (Eds) 1997. Biodiversity Profile of Nakuru District, Kenya. UNO/GEF/FAO: National Museums of Kenya and Kenya Government (National Environment Secretariat. Nairobi. 64 pp.

Gichuki, N.N., 1996. Breeding and foraging strategies of the Grey Crowned Crane in an agricultural landscape, western Kenya. **Ostrich** (Journal of African Ornithology).

Gichuki, N.N. and Mirara, F.K. (Eds.). 1996. Biological Techniques: A Handbook for Secondary School Science Teachers in East Africa. ICIPE Science Press: Nairobi.

Beilfus, R.D., Tarboton, W.R. and Gichuki, N.N., (eds.) 1996. Proc. African Crane and Wetland Workshop. International Crane Foundation, Baraboo, Wisconsin, U.S.A



Gichuki, N.N. 1996. Factors affecting reproductive success in Crowned Cranes. In: Beilfus, K.D., Tarboton, W.R. and Gichuki, N.N. (Eds). Proc. African Crane and Wetland Workshop. P. 175-178. International Crane Foundation, Baraboo, Wisconsin, U.S.A.

Ngw'eno, F., Gichuki, N.N. and Nasirwa, O. 1996. The role of Kenya Wetland Working Group in the process of developing a National Wetlands Policy in Kenya. In: Ntiba, M. and Katua, S. (Eds). Towards the development of National Wetlands Policy in Kenya. Government of Kenya (National Environment Secretariat): Nairobi p. 55-59.

Njuguna, P.K., Gichuki, N.N. and Howard, G.W. (Eds) 1996. Current research and inventory activities in Kenyan wetlands. Proc. Of National Wetlands Inventory Workshop. Kenya Wetland Working Group/National Museums of Kenya/IUCN-World Conservation Union, Nairobi. p. 50.

Gichuki, N.N. 1996. Using natural resource inventories to develop management plans of wetlands in protected areas. In: Awar, M. and Ndetei, P. (Eds). Proceedings of Saiwa Swamp National Park Management Plan Workshop. Worldwide Fund for Nature and Kenya Wildlife Service, 21-26 March, Kitale, Kenya

Ntiba, M., Gichuki N.N. and Chumo, A.N. (Eds) 1995. Review of sectoral laws and policies relating to wetlands in Kenya. Kenya Government (National Environment Secretariat): Nairobi. 101 pp.

Gichuki, N.N. 1995. The tragedy of common properties as illustrated by wetlands in Kenya. In: Khan, S.R. (Ed.). Journal East African Environment Network Conference. pp. 83-86.

Gichuki, N.N. (1994). Factors influencing individual reproductive fitness in Crowned Cranes. Acta XXI Congressus Internationalis Ornithologici. (Selected best poster paper by Vienna Zoo).

Gichuki, N.N. (1993), Factors affecting reproductive success in tropical wetland birds with special reference to the Grey Crowned Crane. Ph.D. Dissertation, Cambridge University. Pp. 196.

Gichuki, N.N. and Gichuki, C.M. (1992). The behaviour of the Grey Crowned Crane *Balearica regulorum* in North Swamp, Lake Naivasha, Kenya. Proc. 8th Pan-afr. Orn. Congr. pp 63-70.

Gichuki, C.M. and Gichuki, N.N. 1992. Wetland birds of Kenya. In: Crafter, S.A., Howard, G.W. and Njuguna, S.G. (eds.) Wetlands of Kenya. IUCN/World Environment Monitoring Centre, Gland, Switzerland. viii + 183, pp. 37-46.

Gichuki, N.N. (1992). Developing an integrated monitoring programme of waterbirds and wetlands in Kenya. Proc. IWRB Technical Conference, Florida, USA. pp. 115-118.

Gichuki, N. N. (1991). The populations and movements of Palearctic waterfowl in Kenya. In: D.E. Pomeroy and M. Finlayson, (Eds). East African Wetlands and Waterfowl Management, IWRB, U.K.

Gichuki, N. N. and Gichuki, C. M. (1991). Relationship between habitat selection and flock characteristics in foraging Grey Crowned Crane (*Balearica regulorum*). In: J. Harris, ed., Cranes and Wetlands, International Crane Foundation, Madison, USA. pp. 357-361.

Gichuki, N. N. (1990). Nest-site selection by Crowned Cranes (*Balearica regulorum*) in East African riverine wetlands. Acta XX Congressus Internationalis Ornithologici, Supplement, p. 104-106.

Gichuki, C. M. and Gichuki, N. N. (1990). Foraging strategies of Crowned Crane *Balearica regulorum* in highlands of central Kenya. Congressus Internationalis Ornithologici, Supplement, p. 378-381.

Gichuki N.N. (1988). Annual cycle of the African Citril *Serinus citrinelloides* in Nakuru District, Kenya. Pan-African Ornithological Congress p. 86-89.

Gichuki, N.N. and Pomeroy, D.E. (1983). The breeding pattern, diet and pest status of three species of doves (Genus *Streptopelia*) in a semi-arid woodland in south east Kenya. The Kenya Journal of Science and Technology, series B, 4:63-67.

## **7. Professional affiliation**

Member, National Steering Committee of UNDP/GEF Small Grants Programme in Kenya **2017-Present**

Member, Advisory Committee, Wetlands International, Wengeningen, Netherlands.

Member, International Advisory Council, International Crane Foundation, USA.

Member, Executive Committee, International Ornithological Congress, Hamburg, Germany.

Member, Society of Wetland Scientists, Bristol, U.K.

Member, American Ornithological Society, New York, USA.

Member, British Ornithologists Club, Oxford, U.K.

Member, African Bird Club, London, U.K.

Member, IUCN Species Commission Specialist Group, Gland, Switzerland.

Member, Society of Conservation Biology, Cambridge, U.K.

## **8. Professional Recognition Awards**

**Fellow, Cambridge Commonwealth Society**, University of Cambridge, U.K. (1995 - Present).

**Environmental Conservation Award:** East African Environment Network (2003).

**Wetland Conservation Award:** Kenya Wetland Working Group, Nairobi, Kenya. (2002).

**Principal Coordinator:** International Research Experiences and Education (IRES) Partnership (Tulane University, University of Nairobi and national Museums of Kenya, Nairobi.).

## **9. Major areas of research, education and training**

### **9.1 Areas of interest in research and development**

University level training in zoology, wildlife conservation and management

University level training in research methodology and biostatistics

Research in stream ecology and fishery development

Research in buffering capacity of natural wetlands against pollution

Research in wetland vegetation as a grazing resource in semi-arid flood plains

Research in constructed wetlands for waste water treatment in built environment

Research in bird conservation in farmed landscapes

Monitoring international trade in birds

Participatory Citizen Science: Community participation in Research

### **9.2 Education and training**

#### **9.2.1 Undergraduate training:**

Geography, Botany and Zoology, Arthropod Biology, Aquatic Biology, Wildlife Ecology

#### **9.2.2. Career building training**

Training in research and development proposal writing (UNES, March 2012).

Taxonomy and ecology of *Eumycetozoans* (Slime Molds), Arkansas University (USA), National Museums of Kenya and University of Nairobi, January 11-16, 2014. Workshop Organizer.

Training in Pedagogy and Examination Processing (Kenya Science), August 2015.

Development of open learning resources (School of Continuing Education, June 2010).

International Field Training Course on the Use of Geographical Information System in Mapping Natural Resources in East Africa (British Council/ Sokoine University of Agriculture and Technology, Lake Natron, Tanzania: November 2009).

Skills in scientific communication, **Safetrain** DANIDA (April, 2009).

Training in digitalization of biological specimens in Research and Educational Institutions (Global Biodiversity Information Systems, Nakuru (GEF/GBIF, August 2008).

### **9.2.3. Research and development training**

Postgraduate Student supervision and mentorship (UNES- University of Nairobi (Feb 2017).

Development of Proposals for Postdoctoral Research: UNES-University of Nairobi (October 2015).

Stakeholders training and refresher courses in environmental management at institutional level (Various workshops).

Training Community in project development and management (Various workshops).

Participatory research and product development (Various workshops).

Strategic Planning Processes (Various workshops).

### **9.2.4. Experience in Strategic Planning**

GEF/UNDP/ICIPE – (2006-2008) Facilitating national consultations on the development of national taxonomic capacity for biodiversity conservation and development.

IUCN/SIDA 2009-2010: Biodiversity Information Management in Africa: GEF/GBIF Kenya Project.

SIDA/Inter-University Council for East Africa (2003/2004). Review of scientific and socio-economic research activities affecting wetlands in Lake Victoria basin (Kenya). 39pp.

GEF/FAO/ UNEP African Pollinators Initiative (2005). Facilitation of national stakeholders' consultation process for Assessment of pollinator services for enhanced agricultural production and biodiversity conservation.

SIDA/RPSUD National Museums of Kenya (2005). Review of a regional strategic plan for networking of dry land biodiversity research initiatives in Eastern Africa.

*GEF/World Bank 2005-2007: Biodiversity management in Tana River basin: The role of local communities. Team Leader.*

University of Nairobi (Department of Zoology) Five-year Strategic Plan (2005-2010). Team Leader, Nairobi, Kenya 2005.

Biodiversity Indicators for National Use in Tana River Basin: Team Leader in a group of 7 National Experts. 2007-2009.

### 9.3 Postgraduate student mentoring and supervision

#### 9.3.1 PhD students

**Jedida Nankaya, (2018).** Assessment of ethno-medicinal knowledge, cross generational transfer, and potential use for medicinal plants monitoring and conservation in Loita Area, Narok County, Kenya. **In Progress.** University of Nairobi, Kenya.

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**Jackson Bunyangha (2018).** Landscape Transformation of Fragile Wetland Ecosystems in

Mpologoma Catchment, eastern Uganda. **In Progress.** University of Nairobi, Kenya and Makerere University, Uganda.

**Bill Okemwa, (2018).** Effects of wind farm development and energy infrastructure on critically endangered vultures in southern Rift Valley Kenya. **In Progress.** University of Nairobi.

**Jennifer Njoki Wanyingi, (2018).** Impacts of forest fragmentation on the viability of de Brazza's Monkey (*Cercopithecus neglectus*, Shiegel 1896) in western Kenya. **In progress.** University of Nairobi.

**Ikuathu Dominic Maringa, (2016).** Prediction of grazing conflicts based on limited resources in northern Kenya. **In Progress.** Kenya Methodist University, Meru, Kenya.

**Dominic Victor Wasonga (2018).** Ecological and anthropogenic drivers of diversity in African Tree Frogs (Hyperoloidae) in a tropical forest in western Kenya. **In Progress.** University of Nairobi.

**Stephen Wanyoike Wamiti, (2018).** Population status and factors affecting conservation and survival of Grey Crowned Cranes (*Balearic regulurum*, Bennett 1834) in Lake Ol Bolossat, Kenya. **In Progress.** University of Nairobi.

**Kivai, Stanlaus Mulu (2011).** Population ecology and genetic variability of de Brazza's monkey in Mathews range Forest Reserve, Kenya. (**In progress**) University of Nairobi

**Nyamweya, Humpden N. (2010).** The impacts of invasive plant species on forest regeneration in Mount Marsabit Forest, Kenya. (**In Progress**) University of Nairobi.

**Njumbi, Steve (2008).** Ethics and values in wildlife conservation and management: a case study of Kenya. Department of Geography and Environmental Sciences, University of Nairobi, Kenya. (**In progress**), **University of Nairobi**).

**Nasirwa, O. N. (2015).** Factors affecting foraging and breeding success of Kitlitz Plover in soda lakes of central Rift Valley, Kenya. (**Graduated PhD**, University of Nairobi)

**Obari, Thadeus Odongo (2014).** Population Ecology of Maasai Giraffe in relation to changing climate in southern Kenya. (**Graduated PhD**), University of Nairobi.

**Geoffrey Macharia (2012).** Land use and its impact on biodiversity in the Lake Ol Bolossat basin, Kenya. Department of Environmental Science. (**Graduated PhD**, Kenyatta University).

**Ali, Adan (2009).** Management of domestic waste in Nairobi and suburbs. Department of Environmental Engineering, University of Nairobi, Kenya. (**Graduated PhD**, University of Nairobi).

**Nyingi, Dorothy Wanja (2007).** Differentiation morphologiques et genetique du Tilapia du Nil *Oreochromis niloticus* (Linnaeus, 1758) en Afrique. (**Graduated PhD**, University of Montpellier II, Paris, France.

**Helmut Schiller, (2002).** Development of communication signals in young Grey Crowned Cranes (*Balearica regulorum*). University of Munic, Germany. (**Graduated PhD**)

### **9.3.2 M.A. and M. Sc students**

#### **Graduates in M. A. in Project Planning and Management**

**Anne Wangui Ndege 2017.** Factors influencing wildlife Conservation projects: A case study of lion Rover Project in Meru National Park. (**Graduated, University of Nairobi**).

**Fridah Kagwiria, 2017.** Factors influencing job satisfaction among medical practitioners. A case of Meru level five hospital, Meru County, Kenya. **(Graduated, University of Nairobi).**

**Sebastian Kariithi Jacob 2017.** Factors influencing performance of community water projects in Tigania Central District, Meru County, Kenya. **(Graduated, University of Nairobi).**

**Thuranira Purity Ngugi, 2015.** Influence of Kenya industrial estate services on the growth of Jua Kali enterprises in Meru County, Kenya. **(Graduated. University of Nairobi).**

**Judith K. Mugambi, 2016.** The impact of human activities on water quality of rivers in a rural area of Meru County. **(Graduated, University of Nairobi).**

**Marius Mary Wanjiku 2016.** Factors influencing household income in Chiakariga county assembly ward, Tharaka-Nithi County, Kenya. **(Graduated, University of Nairobi).**

**Lesanjir Boniface Mauan 2013.** Factors influencing academic performance of girls in public primary schools in Sereolipi Education zone in Samburu County Kenya. **(Graduated, University of Nairobi).**

**Daniel Lejaroi Letoiye 2013.** Effects of infrastructural development on wildlife conservation in northern Kenya: A case study of Isiolo-Moyale Highway at Isiolo\_Merile section in Samburu County Kenya. **(Graduated, University of Nairobi).**

**Ikuathu Dominic Maringa 2013.** Factors influencing water use conflicts in Ngarendare and Ngare Niti WRUAs in upper Isiolo sub-region, Samburu County, Kenya. **(Graduated, University of Nairobi).**

**Ngubu Peter Kamande 2012.** Factors affecting the effectiveness of self-regulation in irrigation water management in River Thiba sub catchment in Kirinyaga South Sub-county, Kenya. **(Graduated. University of Nairobi).**

**Munyua Karanja Philip 2013.** Factors influencing performance of water resource users associations in Laikipia County, Kenya. (**Graduated, University of Nairobi**).

**Njiru Michael Njagi 2012.** Factors influencing the performance of co-operatives in Meru County, Kenya. (**Graduated, University of Nairobi**).

**Austin D.O. Uduogu 2012.** Impacts of legume-based rotational cropping on rangeland soil biodiversity and insect pollinators at Isinya, Kenya. (**Graduated, University of Nairobi**).

**Ali Jatani Boru 2012.** Determinants of community ownership of water projects in Kenya: A case study of central Division, Isiolo County, Kenya. (**Graduated, University of Nairobi**).

**Francis Muchiri Nyaga 2012.** Influence of capacity building on adoption of soil conservation in Miriga Mieru west division, Imenti North District, Kenya. (**Graduated, University of Nairobi**).

**Graduated M.Sc. Conservation Biology**

**Ben Meroka Nyakundi, (2018).** Abundance, diversity and distribution of small mammals in Ololua Forest, Kenya. (**Defended awaiting Graduation, University of Nairobi**).

**Noreen Mutoro (2016).** Cheetah prey base outside protected areas in Salama and Kapiti Ranches. (**Graduated, University of Nairobi**).

**Stellah Wanyonyi (2015).** Distribution and abundance of swamp endemic birds in Sio Port, Kenya. (**Graduated, University of Nairobi**).

**Titus Imboma (2014).** Competitive exclusion of native sparrows by the invasive house sparrow in urban Nairobi (**Graduated, University of Nairobi**).

**Herman Chege (2013).** Meso-carnivore diversity as indicators of ecological health of wetlands in Laikipia County Kenya. (**Graduated, University of Nairobi**).



**Esther W. Githumbi (2013).** Changes in vegetation structure in response to land use in the watershed of Manguo swamp, Kiambu County, Kenya. **(Graduated, University of Nairobi).**

**Margaret Nduku Kyalo (2011).** Assessment of alternative food resources of Lesser Flamingo in some Kenyan saline lakes. **(Graduated, University of Nairobi).**

**Sister Alfredo Mbegu (2011).** Comparative study of bird guilds in different cropping systems on farmlands adjacent to Kakamega Forest, Kenya. **(Graduated, University of Nairobi).**

**Anne Wangari Kairu (2011).** Distribution and population structure of East African Greenheart (*Warbughia ugandensis*) in Mount Kenya Forest, Kenya. **(Graduated, University of Nairobi).**

**Muriithi, Evans (2010).** Factors influencing livestock predation by carnivores in group ranches bordering Maasai Mara National Reserve, Kenya. **(Graduated, University of Nairobi).**

**Ngaruiya, Grace Wambui (2010).** The ecology of the Golden-rumped Elephant Shrew in coastal forests of Gede and Arabuko Sokoke Forests, Kenya. **(Graduated, University of Nairobi).**

**Nguku, Julius (2010).** The diversity and distribution of herpetofauna in Lower Tana River Forests, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi).**

**Wambua Josephat K. (2010).** The influence plant invasive species on the distribution of large mammals in Ol Doinyo Sabuk National park, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi).**

**Obari, Thadeus O. (2010).** Factors influencing population and behaviour of Giraffe in the Athi Kapiti ecosystem, Kenya. M.Sc. Thesis, University of Nairobi. **(Graduated, University of Nairobi).**

**Nekesa, Sarah Wekesa (2009).** The altitudinal variation in angiosperms and bryophyte communities on Sirimon Truck in Mount Kenya Forest. **(Graduated 2016).**

**Otieno, Nickson E. (2008).** Factors influencing diversity and abundance of farmland birds in Kakamega Forest, Kenya. M.Sc. Thesis, University of Nairobi. (**Graduated**, University of Nairobi).

**Gabho, A. A. (2008).** The role of wetlands in supporting biodiversity and livelihoods in dry lands: a case of Ijara District, Kenya. **Graduated**, University of Nairobi.

**Nyamweya, H. E. (2007).** An assessment of butterfly species diversity in relation to plant structure in Mount. Marsabit National Park, Kenya. **Graduated**, University of Nairobi.

**Mutuku, J. M. (2007).** The effects of habitat changes on the avifauna of Mount Marsabit Forest, Kenya. **Graduated**, University of Nairobi.

**Njenga, M. M. (2007).** Vegetation characterization and large herbivore population dynamics at Il Ngwesi Community Conservancy, Laikipia District, Kenya. (**Graduated**, University of Nairobi).

**Munyekenye, F. B. (2006).** Bird species richness and abundance in different forest types in Kakamega Forest, Kenya. (**Graduated**, University of Nairobi).

**Edah Kaguthi (2002).** Assessment of resource use conflicts among the main communities living in Lower Tana River. Department of Environmental Planning, Kenya Kenyatta University, Kenya.

**Ashford Njenga (1998).** The role of tree crops in farming systems of humid and semi-arid areas of Kenya. Department of Environmental Science, Kenyatta University, Kenya.

**Jane Cherotich Maina (1998).** Human perception of natural resource degradation in a semi-arid area: a case study of Lake Bogoria, Kenya. Department of Environmental Studies, Kenyatta University, Kenya.

**Ayub N. Macharia (1997).** Impact of water quality changes on riverine macro-zoobenthic diversity: a case study of River Gathara-ini, Kiambu District. Kenyatta University, Kenya.

**Daniel M. Nzengya (1997).** The ecological performance of the carnivore-splash wetlands in wastewater treatment. School of Environmental Science, Moi University, Kenya.

**Jane B. Masese (1996).** Human perception and its implications on wetland use and conservation: a case study of Nyamira District, Kenya. Kenyatta University; Kenya.

## **10. Major Research Grants Awards**

**World Society for Protection of Animals (London):** Integration of Animal Welfare Education In Education for Sustainability Strategy in Kenya (2012-2016):

**French International Research and Development Agency (IRD, France and European Union):** Wetland Biodiversity Assessment in Kenya: River Tana Delta and Loboï Swamp, (2011-2013): Budget: Euro 20,000 per year for three years. Joint Project with NMK.

**International Research and Education in Science (IRES/IFS, USA):** Assessment of riverine fish biodiversity and training in molecular taxonomy in Kenya. UoN/NMK/Tulane University. (2009-2012), Budget: US\$ 150,000.

**UNDP/UNEP Regional Office for Africa:** Solid waste assessment and management by local Communities in Nairobi River basin (2006-2008). (US \$40,000 per year for two years.

**UNEP/AGREF – Mount Marsabit Ecosystem Conservation and Development Project (2004-2006):** Biodiversity Assessment and inventory. (US \$ 17,000 for one year).

International Crane Foundation (USA) and Endangered Wildlife Trust (South Africa): University Training Scholarship and Financing of International Crane Trade Project in East Africa: (2006-2009) Budget: US \$ 50,000 for two years.

**American Zoos and Aquariums Association (2002-2004).** Pollution buffering capacity and biodiversity of River Nyando Delta in Lake Victoria basin, Kenya. Principal Investigator in a team of four national scientists. (Budget: USD 5,000).

**IUCN-NORAD (2001-2002).** Development of tools and criteria for wetland monitoring in East Africa. Lead Consultant in Kenya in a team of four experts. (Budget USD \$ 20,000)

**Ramsar Convention Bureau (1999-2001).** Monitoring of African-Eurasian Migratory birds in Kenya. National Coordinator (Budget: Austrian Shillings 65,000).

**GEF/UNDP/UNEP** (1999-2001). Conservation and Sustainable Use of Biodiversity in the Eastern Rift Valley Lakes, Kenya. *National Programme Coordinator* (Responsibilities: Project planning, implementation, financial management, administration and mainstreaming into national policies and programmes). (USD 327,000).

**Swedish International Agency for Research and Development (SAREC)** 1997-2000. Assessment of wetland resources, values and uses in Kajiado District, southern Kenya. (Budget: USD \$15,000).

**World-wide Fund for Nature (WWF)** (1990-1993). Community Wetland Conservation in Trans Nzoia District, Kenya. National Museums of Kenya, and Moi University. (Budget SFr 225,000).

**Chapman Memorial Fund of the American Museum of Natural History** (1990-1992). Role of water birds as indicators of wetland quality in Kenya. (Budget: US\$ 10,000).

## **11. Consultancies and Community Service**

**UNDP/GEF Small Grants Programme: Chair, National Steering Committee 2017- Present**

**GEF/FAO African Pollinators Initiative** (2008) Facilitator, National Stakeholders Consultation workshop, Two days. National Museums of Kenya.

**World Environment Monitoring Centre (Cambridge)** 2004): Developing tools (indicators) of biodiversity in tropical wetland ecosystems. Leader: National Task Force for Tana River Basin.

**GEF-UNOPS/UNEP** (Lake Baringo Land and Water Conservation Project. June-July/October-November 2001. Consultancy: Assessment of the conservation status of birds and tourism potential in Lake Baringo area, Kenya. 60 man-days.

**Kenya Government (Ministry of Environment and Natural Resources)**. August-November 2001. Review of Post Rio achievements in biodiversity conservation in Kenya. Team Leader: 13 experts.

**IUCN-NORAD Eastern Africa Wetland Support Programme:** (2001–2002. Development and testing of new wetland monitoring tools in Kenya. Two months. Lead consultant in a team of four experts.

**UNEP/SIDA (Global International Waters Assessment, GIWA)** (2001) Review of assessment methodology and policy options in natural resource assessment in the Great Rift Valley Lakes (Lakes Victoria, Tanganyika, Albert and Turkana). Member of an international team of 13 experts.

World wide Fund for Nature and Kenya Wildlife Service.

**National Environment Action Plan** (1994). Geoffrey W.Howard, Cecilia M. Gichuki, Peter Kiai, Tom Kabii and Nathan Gichuki. National Report, 1995. Environmental strategies and actions for sustainable management of water resources and wetlands in Kenya. Twenty-five days in a technical team of 12 experts.

**Kenya Wildlife Service** (1997). Nathan Gichuki. Stakeholder consultation workshop for Lake Ol Bolossat Conservation and Development. Eight days workshop planning and facilitation, Ol Kalou Town.

**Lake Victoria Species Survival Programme** (1996/1997). Joe Norton, Dough Warlmots, Nathan Gichuki, Roger Cloceck, and Helida Oyieke. Inventory of fish diversity in the wetlands of Lake Victoria. Ten days in a multi-disciplinary research team of six.

**Lake Victoria Species Survival Programme and Boston University** (1996). Les Kauffman, Nathan Gichuki, William Ojwang and James Maikweki. Modelling fluctuations in water levels of Lake Victoria and its implications on aquatic biodiversity and human settlements. Five days of field study in Lake Victoria basin in a technical team four.

**GEF-UNDP/FAO/Kenya Wetland Working Group** (1996). Geoffrey Howard, Nathan Gichuki and Fleur Ngweno. Ethno-botanical assessment of wetlands in Uasin Gishu District, Kenya. Responsibility: Coordination of Field Research Activities.

**GEF-UNDP/UNEP** (1998-2001). Nathan Gichuki (NMK), Christopher Gakahu (UNDP), Annah Tengberg (UNEP) and Allan Rodgers (FAO/UNDP). Conservation and Sustainable Use of Biodiversity in the eastern Rift Valley Lakes. Responsibilities: Coordination, planning, and implementation of project budget and activities in Kenya. Coordinating 25 National Resource Persons.

## **12. Major Seminars and Conferences Attended**

International Ornithological Congress, Rio de Janeiro Brazil, August 2018.

African Plant Conservation Congress, Catholic University, Nairobi, May 2017.

Pan African Deltas Conference in Dar es Salaam, Tanzania June 2017.

Pan African Fisheries Congress, Bujumbura, Burundi, September, 2014.

Regional Conference on Threatened Migratory Species: Kigali, Rwanda, September, 2013.

Convention on Biological Diversity (COP5), Official Kenya Delegate (Inland Water Biodiversity

Regional Conference on East African Dry Land Biodiversity, November, Arusha, Tanzania.

9th Pan-African Ornithological Congress, December, Kampala, Uganda.

Wetlands International Advisory Board meeting. Wengingen, Netherlands, November 2001.

23<sup>rd</sup> Int. Ornithological Congress, Beijing, China. August 2002.

Promoting best practices for biodiversity conservation in arid and semi-arid areas. GEF/Third World Network of Scientific Organizations (TWNSO) Regional Workshop. Sultan Qaboos University. Muscat, Oman. April 2002.

Promoting best practices for biodiversity conservation in arid and semi-arid areas. GEF/Third World Network of Scientific Organizations (TWNSO) Regional Workshop, Center for Desert Research, Cairo, Egypt. Dec. 2003.

SIDA/SAREC-Lake Victoria wetlands research programme. Regional Conference and Board Meeting. Nile Resort, Jinja Uganda. April 2004.

UNEP/German Ministry of Education/BIOTA East Africa: Evaluation Mission for Project Activities in Kenya and Uganda. September, 2005.

24<sup>th</sup> International Ornithological Congress, Hamburg, Germany, August, 2006.

SIDA/ RPSUD – National Museums of Kenya. Evaluation Mission for project to assess research reports for publication in dry land biodiversity journal, June 2007.

International Crane trade Mitigation Workshop. Naivasha, Kenya: 8-11 October 2007.

Evaluation Mission of Marine Science Institute, Zanzibar, University of Dar Es Salaam. October, 2008.

National Wildlife Conservation Strategy for Kenya, Voi Lodge, Kenya. June 2009.

Africa International Animal Welfare Action Conference and Exhibition, KCB Leadership Centre, Karen, 6-8 September, 2010.

International Symposium on Theology and Peace Building in Africa. Hekima College of Catholic University of Eastern Africa:. Guest Speaker on the theme Ecology in Dialogue with Technology, Peace Building and Development in Africa. March 5-8, 2012.

International Conference of Climate Change Adaptation and Development in Africa. National Museums of Kenya, Nairobi, July 2013.

African Deltas Conference, University of Dar es Salaam, Tanzania, 26 – 30 May, 2014.

### **13. Professional Training**

**Training on assessing damage to grain crops by birds in Eastern Africa.** (F.A.O./U.N.D.P. (1979: 10 days, Arusha, Tanzania).

**Training on participatory research methodologies.** Kenya Energy Non-Governmental Organization (KENGO). Duration 5 days, June 1988.

**Training on marking and monitoring of migratory birds using satellite technology:** (DAAD): (May, 1989: 30 days, Max Planck Institute, Radolfzell, Germany.

**Training on evaluating effects of chemical water pollution on breeding shore birds.** (June 1989: 30 days, Institut fur Vogelforschung, Wilhemshaven, Germany.

**Training in water bird counts as tools for wetland monitoring.** Wetlands International. Two weeks, March 1990. Uganda Institute of Ecology and Makerere University, Kampala, Uganda.

**Training in planning and execution of Environmental Education programmes in Africa.** (September 1990, 20 days, Savanna River Ecology Research Centre, Georgia, USA).

African Wildlife Conservation Center and University of Georgia:

**Field training in monitoring and restoration of wetlands.** (September, 1990: 10 days, at Savannah River Ecology Research Centre and St. Catherine Island, Georgia, U.S.A.).

Training in research data management: (July 1992: 5 days, Cambridge University Computer Laboratory, U.K.).

**Training on Scientific Writing and Desktop Publishing.** (October 1992: 10 days, Churchill College, Cambridge University, U.K.).

**Training on leadership and management of non-governmental organizations in Africa.** (June 1993: 10 days, New Hall College, Cambridge University, U.K.).

**Field training on Wetland Biodiversity Assessment.** December 1995: 10 days. Mwanga, Tanzania. IUCN-GEF/FAO Eastern Africa.

**Training on Results-oriented Project Management and Reporting.** Monitoring and Evaluation of multi-sectoral development projects. April 2001, UNDP, Gigiri.

**Training in Project planning and management by UNDP Kenya.** August 2002, Utalii College Hotel, Nairobi.

**Training in pedagogy and student mentoring.** . University of Philadelphia/University of Nairobi. October 2007.

**Training in scientific communication** (DANIDA/ University of Nairobi): 14 days April 2008.

## **14. Professional and Research Experience**

### **14.1 Agricultural Research Experience (1978-1985)**

Research Scientist (Crop Protection): Conducting research on insect and vertebrate pests of field crops, providing technical advice to farmers, screening of pesticides and carrying out tests of pest impacts on new varieties at Kenya Agricultural Research Institute, Njoro, Kenya. Key innovations:

- Use of reflective ribbons against bird pests of wheat and sunflower.
- Modified disc-template for quantifying bird damage to mature sunflower.
- Economics of human bird scaring against bird scaring devices

### **14.2 Experience in Environmental Education and Public Awareness since 1990**

**Resource Person**, Review of the status of Kenya's wetlands. IUCN-Kenya Wetlands Working Group. June 1991. National Museums of Kenya, Nairobi.

**Project manager**, Assessment of wetland values and uses in western Kenya. WWF Community based Wetland Conservation Project, Trans Nzoia District, (1990-1993).

**Project Manager**, Ecological and socio-economic study of wetlands in Lake Ol Bolossat basin, Kenya. (1991-1994). Project Manager, (9 persons supervised).

**Project Manager**, GEF/UNDP Rift Valley Lakes Project Kenya. (1999-2003), Five members of staff supervised.

**Administrative Head**: Senior Research Scientist in Charge of Wetlands Programme (National Museums of Kenya). June 1994-2003. Duties: Coordination of wetland biodiversity inventory. Managing Wetland Data Base. Developing Wetland Education Materials. Organizing Public Education and Awareness Ramsar Convention and wise use of wetlands.

### **14.3 Experience in Education and Training**

Scientific communication and publishing (DANIDA/University of Nairobi), Nairobi (September 2008).

Scientific Writing and Desktop Publishing and Journal Editing, Sida/Sarec, and National Museums of Kenya, August 2003, Nairobi, Kenya.

Preparation of Learning Materials for Distance Education. University of Nairobi and African Academy of Science.



Training in pedagogy and evaluation of practicing science teachers in East African schools (October 2009).

### **15. Membership in academic/professional bodies**

- Member: Kenya Wetland Research Association (2006-Present)
- Member: East Africa Natural History Society, 1985-Present
- Member: Working Group on Crane and Wetlands in Africa 1990-Present
- Secretary: Kenya Wetlands Working Group (1990 - 2006).
- Member: Executive Council: Pan-African Ornithological Congress, 1988-1992.
- Member: Association for the Study of Animal Behaviour (UK), 1992-1994.
- Chairman: Birdlife Kenya (formerly ICBP), 1990-1997
- Member: East African Ornithological Sub-committee 1980-Present.
- Member: Society of Wetland Scientists (International) 1997-Present.
- Member: Crane and Rails specialist Group. IUCN/SSC. 1993-Present.
- Member: Governing Board, Wetlands International, (1998-2004)
- Member: Advisory Board of International Crane Foundation, Wisconsin, USA. (1995-2008)
- Member: American Ornithological Union (2001-2005).
- Member: British Ornithological Union (2007-2015)
- Member: Executive Council: International Ornithological Congress, 1990-1998. 1995-Present.
- Hobby: Reading science magazines, working with wood, bird watching and playing darts.

## 16. Referees

Prof. M. J. Ntiba, School of Biological Sciences, University of Nairobi, P.O Box 30197 00100, Nairobi, Kenya.

Prof. Peninah Aloo Abudho, Deputy Vice Chancellor, Karatina University College, P.O. Box 1957 Karatina, Kenya. Tel 0729721200

Prof. James Kungu, Dean, School of Environmental Studies, Kenyatta University, P.O. Box 43844 – 00100 Nairobi, Kenya.

Prof. Gordon Kaaya, School of Biological Sciences, University of Nairobi, P.O. Box 30197 00100 Nairobi, Kenya.

Prof. John Huria Nderitu, Faculty of Agriculture, Department of Crop Protection, University of Nairobi, P.O. Box 30197 00100 Nairobi, Kenya.

Dr. George W. Archibald, International Crane Foundation, E11376, Shady Lane Road, P.O. Box 447. Baraboo, Wisconsin, 53913-0447 USA. Tel. 608 356 3454, Fax 608-356-9465. Email: [savingcranes@aol.com](mailto:savingcranes@aol.com), [george@savingcranes.org](mailto:george@savingcranes.org)