

**Intergovernmental Science-Policy  
Platform on Biodiversity and  
Ecosystem Services**

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**Plenary of the Intergovernmental Science-Policy  
Platform on Biodiversity and Ecosystem Services****Third session**

Bonn, Germany, 12–17 January 2015

Item 7 (a) of the provisional agenda\*

**Rules and procedures for the operation of the Platform:  
nomination and selection of members of the  
Multidisciplinary Expert Panel****Compilation of curricula vitae of proposed members of the  
Multidisciplinary Expert Panel****Proposed members from African States****Note by the secretariat**

1. The annex to the present note, prepared by the secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, compiles the curricula vitae of the candidates proposed for the Multidisciplinary Expert Panel, as submitted by the African States. The curricula vitae are reproduced as received, without formal editing.

2. The candidates are the following:

Etotépé Sogbohossou, Benin  
Prudence Galega, Cameroon  
Mostafa Fouda, Egypt  
Sebsebe Demissew, Ethiopia  
Jean Bruno Mikissa, Gabon  
Agnes Muthumbi, Kenya  
Gideon Nyamasyo, Kenya  
Stella Simiyu, Kenya  
Voahangy Raharimalala, Madagascar  
Ivy Sahoby Randriamahaleo, Madagascar  
Mohamed Dakki, Morocco  
Hamisso Halilou Malam Garba, Niger  
Charlotte Karibuhoye Said, Senegal  
Kiruben Naicker, South Africa  
Mohamed Abbas, Sudan  
Asia Mohamed, Sudan  
Samson Gwali, Uganda  
Evelyn Lutalo, Uganda  
George Kafumu, United Republic of Tanzania

\* IPBES/3/1.

**Annex**

**Compilation of curricula vitae of proposed members from African States for the Multidisciplinary Expert Panel**

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## **SOGBOHOSSOU Etotépé Aïkpémi**

Born in 1978

Female, Beninese nationality , Married

PhD Conservation Biology

Assistant Professor, Faculty of Agricultural Sciences, University of Abomey-Calavi, BENIN

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[www.leabenin-fsauac.net/Lea/](http://www.leabenin-fsauac.net/Lea/)

### **Hard-working – Goal-oriented – Creative – Reliable – Multidisciplinary Team work**

Assistant lecturer in the Department of Natural Resources Management, Faculty of Agronomy, University of Abomey-Calavi (Benin), Dr Sogbohossou teaches courses related to wildlife conservation and protected areas management. She led and participated to several projects in and outside Benin on biodiversity and endangered species conservation, conflicts mitigation and education with local communities. She also participated to the preparation of several conservation strategies.

### **PROFESSIONAL OBJECTIVE**

Take actively part to the conservation and the sustainable use of natural resources and the management of human-wildlife conflicts in Benin and West Africa. Work to the welfare of populations (especially women and children) that live around high diversity areas and are in permanent conflict with the resources of the area.

### **EDUCATION**

- ♣ **2011.** PhD, Option Conservation Biology. Leiden University. The Netherlands.
- ♣ **2006.** Diploma of Master of Sciences. Option Management of Natural Resources. Faculty of Agronomy, University of Abomey-Calavi. Benin.
- ♣ **2000.** Diploma of Agricultural Engineer (Option Planning and Management of Natural Resources). Faculty of Agronomy, National University of Benin. Benin.

### **SELECTED ADDITIONAL TRAINING**

Estimating Animal Abundance and Occupancy (Smithsonian Conservation Biology Institute, Front Royal, 2014), Molecular Biology techniques (Genetics Lab Brookfield Zoo, Chicago, US, 2006), Project management (- MDF Training and Consultancy, Cameroon, 2006), Park & Wildlife management (Cameroon, Netherlands & South Africa, 2005), Tropical Ecology and Conservation (Tropical Biology Association, Kenya, 2004).

### **GRANTS / SCHOLARSHIPS**

Some research and studies grants including Friedman Cheetah Conservation Grant (Panthera Foundation, 2014-2015), Charlotte Fellowship (African Wildlife Foundation, 2009-2011), Kaplan Graduate Award (Panthera Foundation, 2008-2009), Rufford Small Grants for Africa (2006-2007), WCS Small Grant for Africa (2005), MAB UNESCO Young Researcher Grant (2003-2004) and WINROCK fellowship for Women Leaders in Agriculture and Environment (2000).

### **EMPLOYMENT**

- ♣ **From 2012. *Faculty of Agricultural Sciences, University of Abomey-Calavi, BENIN.*** Lecturer - Researcher

Lectures (fields related to protected areas management & wildlife conservation), student supervision, research. Courses taught: Animal Populations Dynamics – Wildlife monitoring – Large Carnivores monitoring – Protected Areas Concepts & Management Categories

From 2012, 1 BSc and 4 MSc thesis supervised, 2 BSc and 1 MSc ongoing on diverse aspects such as bushmeat trade, wildlife species conservation (sitatunga, giraffe, hippopotamus, monitor lizard), climate change impact on giraffe and human-wildlife conflicts.

- ♣ **January 2012 – March 2013. *African Wildlife Foundation, BURKINA FASO.*** Ecologist

In charge of the monitoring of elephant and giraffe populations and conflicts with human in the W-Arly-Pendjari protected areas complex in Benin, Burkina Faso and Niger),

♦ **January 2001-2012.** *Laboratory of Applied Ecology, University of Abomey-Calavi, BENIN.*  
Research Assistant

Research on natural resources management, projects and technical / scientific reports writing, workshops organization, student supervision, lectures ...

♦ **February 2005 - 2010.** *CERGET (Research Centre for the management of Biodiversity and Lands) NGO, BENIN.* Project coordinator

Design, lead or co-lead projects on conservation of threatened medicinal tree species (2005-2008), on the endangered Wild dog Conservation in Benin (2006-2007) and on human-carnivores conflicts mitigation around Pendjari Biosphere Reserve (2005-2006; 2008-2010).

♦ **October 2001 - April 2003.** *Laboratory of Botany, Systematic and Phytosociology, Université Libre de Bruxelles, Belgium / Laboratory of Applied Ecology, National University of Benin.*  
Responsible of the botanical part of the Project Plamenet (African Medicinal Plants on the Net) Project database, West Africa part.

#### SELECTED RESEARCH EXPERIENCE

Protected areas and wildlife conservation (Wildlife monitoring, uses by local communities, conflicts with humans, bushmeat trade ...): from 2012

Lion, Giraffe and Elephant population and human-wildlife conflicts monitoring in Benin, Burkina & Niger. 2001- 2013.

Wildlife aerial and terrestrial census in Pendjari Biosphere Reserve. 2001- 2008.

Lion collaring and monitoring. South Africa, 2005. Cameroon, 2007 & 2008. Benin, 2008, 2009 & 2010.

Lion census in Pendjari Biosphere Reserve. May 2004, May 2007 & May 2009.

Rangelands carrying capacity, use and management in Pendjari and Monts Kouffe Forest. 2000-2001

#### SELECTED PUBLICATIONS AND BOOK CHAPTERS

♦ **Sogbohossou E.A.**, Bauer H., Loveridge A. Funston P.J., de Snoo G.R., Sinsin B. & de Iongh H.H. 2014. Social structure of lions (*Panthera leo*) is affected by management in Pendjari Biosphere Reserve, Benin. *Plos One*, 9(1): e84674. doi:10.1371/journal.pone.0084674.

♦ **Sogbohossou E.A.**, Kassa B.D., Aboubacar Z. & Mahamane A. 2013. Les conflits hommes-girafes dans l'aire centrale de répartition de la girafe (*Giraffa camelopardalis peralta*) au Niger. *Annales des Sciences Agronomiques* 17(2) : 107-119.

♦ Packer C., Loveridge A., Canney S., Caro T., Garnett S.T., Pfeifer M., Zander K.K., Swanson A., Macnulty D., Balme G., Bauer H., Begg C.M., Begg K.S., Bhalla S., Bissett C., Bodasing T., Brink H., Burger A., Burton A.C., Clegg B., Dell S., Delsink A., Dickerson T., Dloniak S.M., Druce D., Frank L., Funston P., Gichohi N., Groom R., Hanekom C., Heath B., Hunter L., De Iongh H.H., Joubert C.J., Kasiki S.M., Kissui B., Knocke W., Leathem B., Lindsey P.A., MacLennan S.D., McNutt J.W., Miller S.M., Naylor S., Nel P., Ng'wenyo C., Nicholls K., Ogutu J.O., Okot-Omoya E., Patterson B.D., Plumptre A., Salerno J., Skinner K., Slotow R., **Sogbohossou E.A.**, Stratford K.J., Winterbach C., Winterbach H., Polasky S. 2013. Conserving large carnivores: dollars and fence. *Ecology Letters* 16 (5): 635-641.

♦ **Sogbohossou E.A.**, de Iongh H.H., Sinsin B., de Snoo G. & Funston P. 2011. Livestock - predator conflict around Pendjari Biosphere Reserve, Northern Benin. *Oryx* 45: 569-578.

♦ Bertola L.D., van Hooft W.F., Vrielink K., Uit de Weerd D.R., York D.S., Bauer H., Prins H.H.T., Funston P.J., Udo de Haes H.A., Leirs H., van Haeringen W.A., **Sogbohossou E.**, Tumenta P.N. & de Iongh, H.H. 2011. Genetic diversity, evolutionary history and implications for conservation of the lion (*Panthera leo*) in West and Central Africa. *Journal of Biogeography* 38: 1356-1367.

♦ Bauer H., de Iongh H.H., **Sogbohossou E.** 2010. Assessment and mitigation of human-lion conflict in West and Central Africa. *Mammalia* 74: 363-367.

♦ **Sogbohossou E.A.** & Sinsin B. 2011. Large carnivores (Felidae, Hyaenidae & Canidae). In: Neuenschwander P., Sinsin B. & Goergen G. (eds). *Nature Conservation in West Africa : Red List for Benin*. IITA Ibadan, Nigeria. pp 308-317. ISBN 978-978-49796-9-6.

♦ **Sogbohossou E.A.**, Azanlin M. & Sinsin B. 2010. African buffalo. In: Sinsin B. & Kampmann D. (eds). *Biodiversity Atlas for West Africa. Volume 1 Benin*. Cotonou & Frankfurt/Main. pp 446-449.

♦ **Sogbohossou E.A.** & Sinsin B. 2010. Other large carnivores : spotted hyena and African wild dog. In: Sinsin B. & Kampmann D. (eds). *Biodiversity Atlas for West Africa Volume 1 Benin*. Cotonou & Frankfurt/Main. pp 466-469.

- ♣ Akpona H.A., **Sogbohossou E.**, Sinsin B., Houngnihin R.A., Akpona J-D.T. & Akouehou G. 2009. Botanical gardens as a tool for preserving plant diversity, threatened relic forest and indigenous knowledge on traditional medicine in Benin. In: Parrotta J.A., Oteng-Yeboah A., Cobbinah J. (eds). *Traditional Forest-Related Knowledge and Sustainable Forest Management in Africa*, IUFRO World Series Vol. 23. pp 5-13. ISBN 978-3-901347-81-8.
- ♣ **Sogbohossou E.A.** & Sinsin B. 2009. Gérer les conflits hommes-carnivores en Afrique de l'Ouest. In : Triplet P. (Ed) *Manuel de Gestion des Aires Protégées en Afrique Francophone*. Paris, France. pp 296-305.
- ♣ Sogbohossou E.A. 2011. Lions of West Africa. Ecology of lion populations and human-lion conflicts in Pendjari Biosphere Reserve, North Benin. PhD Thesis.
- ♣ Sogbohossou E.A. 2006. Preliminary Genetic characterization of Benin lions as a basis for the study of phylogenetics in relation with morphology and ecology of lion populations (*Panthera leo* Linnaeus 1758) in West Africa. MSc thesis.
- ♣ Sogbohossou E. A. 2000. Cattle breeding around protected areas and its impact on wildlife and its habitat: study case of Pendjari Hunting Reserve, Northern Benin. Agricultural Engineer Degree thesis.

#### **SOME TECHNICAL REPORTS FROM CONSULTNACIES**

- ♣ Sogbohossou E.A. 2013. Wildlife, Protected Areas and Ecotourism. Forest Dialogue in West Africa. Support to the preparation of the Convergence Plan for the sustainable management and utilization of forest ecosystems in West Africa.
- ♣ Tehou C.A., Kidjo F.C., Téblékou K., Bauer H. & Sogbohossou E.A. 2013. Action Plan for Lion conservation in Benin.
- ♣ Sogbohossou E.A. 2009. Lion census in Pendjari Biosphere Reserve.
- ♣ Sinsin B., Sogbohossou E.A. & Nobime G. 2008. Aerial census of wildlife in Pendjari Biosphere Reserve.
- ♣ Sogbohossou E. A. 2006. Conservation of large carnivores: large carnivores' perceptions by populations and trade of large carnivores' products in West Africa.
- ♣ Sogbohossou E. A. 2004. Study of conflicts between large carnivores and local populations around Pendjari Biosphere Reserve, Northern Benin.
- ♣ Laboratoire d'Ecologie Appliquée 2004. Biodiversity in the gazetted forests of Agoua, Wari-Maro and Monts Kouffé. Report. PAMF/LEA. Benin.
- ♣ Sinsin B., Tehou A., Assogbadjo A., Sogbohossou E., Mama A., Gbangboche A., Yorou S., Ekue M., Sinadouwiou T., Toko I. & Yayi A. 2001. Census of large mammals in Pendjari Biosphere Reserve (line transect).

#### **SELECTED THEMES PRESENTED AT CONFERENCES / WORKSHOPS**

- ♣ Sogbohossou E.A. 2014. Threats to cheetah and wild dog conservation in Benin. **National Action Plan workshop for cheetah and wild dog conservation in Benin**. Ouidah, Benin.
- ♣ Sogbohossou E.A. et al. 2010. Perceptions and Attitudes of local populations towards carnivores and livestock-carnivores conflicts in Pendjari Biosphere Reserve. **Student Conference in Conservation Science**, Cambridge, UK. (Third Best Presentation prize)
- ♣ Sogbohossou E.A. 2009. Lion management strategies in Pendjari Biosphere Reserve. **Large Carnivores Conference**. Maroua, Cameroon.
- ♣ Sogbohossou E.A., de Iongh H., de Snoo G. & B. Sinsin. 2009. Livestock predation around Pendjari Biosphere Reserve, Benin. **SCB Africa chapter Conference**, Accra, Ghana.
- ♣ Sogbohossou E.A. & B. Sinsin. 2007. Tradition versus conservation: large carnivore socio-cultural and economic importance in Benin, West Africa. **Felid Conference**, Oxford, UK.
- ♣ Sogbohossou E.A. 2006. Lion Research in Benin: outcomes and perspectives. **Large Carnivores Seminar**. Maroua, Cameroon.
- ♣ Sogbohossou E. A., Deleke Koko I. E., Zoundjihekpon J. & Sinsin B. 2006. The Sustainable Use of Medicinal Plants and Local Communities Rights in Benin: which future? **First Beninese days of Protected Areas**. Cotonou, Benin.
- ♣ Sogbohossou E. A. 2006. Conservation by Local Communities: study case of the conservation of threatened medicinal plants by local populations in northern Benin. **RNSCC International Seminar on**

**Community-Based conservation of natural resources in dry and sub-humid savannas.** Yaoundé, Cameroon.

♣ Sogbohossou E. A. 2004. Biosphere Reserves and Biodiversity conservation: study case of W Transfrontier Biosphere Reserve. **National Workshop on Biosphere Reserves and Agrobiodiversity conservation.** Kandi, Benin.

Sinsin B., Kassa B. & Sogbohossou E. 2002. Rights and duties of local populations in protected areas management in Benin : study case of national parks and hunting zones. **International workshop on traditional knowledge.** Cotonou, Benin.

♣ Sogbohossou E. & Sinsin B. 2001. Biological and floristic characteristics of plant communities in fallows and savannas of Pendjari Biosphere Reserve, Benin. **Regional Workshop on Integrated Management of Natural Dry Forests.** Parakou, Benin.

#### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

- ♣ Member of the Cat Specialist Group/Species Survival Commission, Conservation Breeding Specialist Group (CBSG) & World Commission for Protected Areas (WCPA) of IUCN
- ♣ Member of the Society for Conservation Biology
- ♣ A founder member of the Network on West and Central Africa Lion (ROCAL in French). In charge of Training and Information for the Network.
- ♣ Member of the Beninese Association for Rangelands (Association Beninoise de Pastoralisme)
- ♣ Member of the Beninese IUCN Committee
- ♣ National Focal point for the synergy between UNCBD & UNCCD from 2005 to 2008

#### **LANGUAGE SKILLS**

- ♣ French excellent reading, writing and speaking
- ♣ English: excellent reading, good writing and speaking

#### **ADDITIONAL INFORMATION**

- ♣ Good knowledge of computer science, statistics, map editing and some wildlife related research software
- ♣ Hobbies: reading, music, photography.

August 4<sup>th</sup>, 2014

# CURRICULUM VITAE

## I PERSONAL DATA

Name: GALEGA nee BOBYIGA PRUDENCE TANGHAM

Profession: 4<sup>th</sup> Grade Magistrate

Address: Technical Adviser No. 1

Cabinet Minister of Environment and Protection of Nature  
YAOUNDE- CAMEROON

Tel: (237) 22 22 94 80(O) 77 97 63 67 (Mobile)

Email [galegapru@yahoo.com](mailto:galegapru@yahoo.com)

DOB: December 4<sup>th</sup>, 1958.

Nationality: Cameroonian.

Gender: Female

Marital Status: Married with three children.

## Areas of Interest

- International and National Policy development and analysis with special focus on environmental law and governance
- Legal drafting and Training with a special focus on Criminal law and Procedure

## II EDUCATION

### 2.1 Full Courses

**1981-1983** Magistracy- National School of Administration and Magistracy  
Yaounde – Cameroon

**1977-1981** LLB (MB) Option: English Private Law  
University of Yaounde – Cameroon

## III SUMMARY OF PROFESSIONAL EXPERIENCE

**2009 to date** Technical Adviser No 1, Ministry of Environment, Protection of Nature and Sustainable Development - MINEPDED

- National Focal Point for the UN Convention on Biodiversity
- Coordinator of the African Group for the UN Nagoya Protocol
- Coordinator of the Central African Biodiversity Group – COMIFAC

#### Achievements:

- Represented Cameroon in several international meetings of the Conference of Parties to the above cited UN Conventions and Protocol in Africa, Europe, Asia and the America's
- Spokesperson for the African Group in several related international conferences

- National Coordinator for several GEF funded projects: the Biosecurity Monitoring Project; The Access and Benefit Sharing Project; Project for the Development of the National Biodiversity Strategy and Action Plan.

**2009 – 2011:** National Focal Point for the UN Protocol on Biosafety  
National Focal Point for the UN Inter-Governmental Committee for the Nagoya Protocol

**2005 to 2009:** Chef de Cellule, Cellule de Gestion Intégré de Personnels de L'Etat et de la Solde (SIGIPES) – Ministry of Justice

**2004 to 2005:** Sub-Director for Human Resources, Ministry of Justice

**1994 to 2004** ‘Avocat General’ (Deputy Attorney General), Court of Appeal Yaounde

**1998 to 2006:** Lecturer (Part Time) National School of Administration and Magistracy (ENAM)– Yaounde. Judicial Division

**1991 –1994** President (Chief Magistrate), Court of First Instance, Kumba.

Cumulatively Court of First Instance Nguti and Court of First Instance Mbonge.

**1987-1991** President (Chief Magistrate), Court of First Instance Tiko.

**1983-1987** ‘Substitut du Procureur de la Republique’ (Deputy State Counsel)  
Court of First Instance Tiko.

#### **IV Relevant Expertise in Environmental Policy Development**

2014              Expert for IPBES Work Plan

- Task Force Expert for Capacity Building 2014-2018
- Task Force Expert for scoping regional/subregional assessments on biodiversity
- Selected Review expert: “guide and catalogue on policy support tools and methodologies”

2008-2009 Promoter and Facilitator of the Network of Parliamentarians for Central Africa Region (COMIFAC) \_ REPAR.

Major output: development of several policy briefs for Legislators and Government decision makers

2008-2009 Host/Facilitator of the Forest Governance Learning Group in Cameroon (FGLG-GREG). ( IIED Project)

2007              Lead Consultant- Development and implementation of effective monitoring tools, accountability mechanisms and associated legislative texts on the fair redistribution of the Annual Forestry Fee in Cameroon. (WRI/Dutch Government)

2005 -2006 Supervisor - Legislative Environmental Representation Research in the Democratic Republic of Congo by Avocats Vert – (WRI/USAID/CARPE)

Major Outputs: Development of several policy briefs

- 2007/08 Co-Consultant: Review Process of the Draft LBA Protocol and Planning of the Joint Conference of Parties for the Abidjan and Nairobi Conventions: RCU Abidjan Convention/UNEP Consultancy
- 2006 Consultant: Drafting of the SAP for the Guinea Current Large Marine Ecosystem (UNIDO)
- 2006/08 Member – Advisory Committee International Waters Governance Expert Team developing capacity building programs in the Governance Component of the LME projects.(GEF/IW LEARN/ University of British Columbia)
- 1999 Member - Legal and Technical Working Experts Group, UNEP's Regional Seas Programme for East and West Africa ( Nairobi and Abidjan Conventions)
- 1998** Co-Consultant - Environment Sectoral Study on the Privatisation of Cameroon's National Electricity Corporation (ERM/World Bank/GoC)
- 1995 Legal and Institutional Expert for the Government of Cameroon on the Gulf of Guinea-Large Marine Ecosystem Project (GEF/UNIDO/UNEP)

## **VI      Affiliations/Membership**

- 1999 to date-**      **National President of Nkumu Fed Fed** (A women based NGO of Public Utility)
- 2000**      Member, Commonwealth Lawyers Association – Cameroon
- 1990**      Charter member and Secretary of the International Federation of Female Lawyers (FIDA) Cameroon

## **VII     Languages**

English and French: Speak, Read, Write and understand fluently.

## **VIII REFERENCES**

Upon Request

Updated August 2014

# **MOUSTAFA MOKHTAR ALI FOUDA**

**Minister Advisor on Biodiversity**

**Nature Conservation Sector**

**Egyptian Environmental Affairs Agency (EEAA)**

**Cabinet of Ministers**

**30 Misr Helwan El Zyræ Road**

**Maadi, Cairo, Egypt**

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**E-mail: foudamos@link.net**

**PROFILE:** Dr. Fouada is currently the Minister Advisor on Biodiversity. He joined the Egyptian Environmental Affairs Agency (EEAA) as Director of Nature Conservation Sector (NCS) in February 2000. His work involved implementation of the National Biodiversity Conservation strategy and Action Plans through developing and managing a network of 30 protected areas (about 15% of Egypt's territory), Biodiversity Development, and Egypt's commitment to international and regional agreements and conventions dealing with Environmental protection and nature conservation. He is in charge of many projects (more than 30 million US\$.) funded by donor countries and international agencies (e.g. Global Environmental Facility (GEF) for conservation of natural resources in Egypt. He is the national focal point for several international conventions (e.g. Biodiversity, CMS, Ramsar). He is interested in wildlife, conservation, marine biodiversity and economics of protected areas. He is also in-charge of several non-governmental scientific and environmental organizations (e.g. ornithological society of Egypt) as well as member of board of several learned societies and governmental institutions. Prior joining EEAA, he was the Assistant Dean for Extension at the College of Agriculture, Sultan Qaboos University (SQU); UNEP & NOAA Consultant and Coordinator of UNEP Task Team on Land-based Sources Affecting the Marine Environment of ROPME, and Implications of Climate Change on Marine Environment and Fisheries of the Red Sea and Gulf of Aden. He is currently a member of the Global Task Team on the Implications of Climate Change on Coral Reefs and the European Academy for Environmental Affairs. At SQU, he taught several courses on Coastal Zone Management, Advanced Marine Biology, Ichthyology, Fisheries Biology, Fisheries Research Techniques and Fisheries Management, and conducted ecological survey on mangrove communities, coral reefs and artisanal fisheries of Oman. He reviewed many fisheries and marine environmental projects in Egypt, Saudi Arabia and Oman. Prior joining SQU, he was based at Al-Azhar University, Cairo teaching marine biology and fisheries, in addition to conducting research programs related mainly to the Red Sea and Suez Canal ecosystems. He served as technical member on several national committees (e.g. Marine Science, Fisheries Research Council, Natural History Museum of Egypt) at the Academy of Scientific Research and Technology. Since his return home in 1980 after obtaining his Ph.D. from U.K., he supervised more than 100 M.Sc. and Ph.D. thesis and published about 200 papers and articles on mangroves, coral reefs, marine biodiversity, fisheries biology and ecology, marine invertebrates, environmental pollution and environmental impact assessment. Visited marine and fisheries institution in Europe, U.S.A., Africa, Asia and Australia and attended more than 200 conferences.

## **PERSONAL**

<b>Permanent Address</b>	:	Rehab City, New Cairo
	:	Tawfeek Al-Hakim St. villa 33
<b>Date of Birth</b>	:	22 January 1950 (Egypt)
<b>Sex</b>	:	Male
<b>Religion</b>	:	Muslim
		<b>Civil Status</b> :
		Married
		<b>Passport No</b> :
		A00527007

## **EDUCATIONAL BACKGROUND**

B.Sc. in Zoology with grade "Distinction", Cairo University, Egypt; June 1972

*Ph.D. in Marine Biology*, University of Bristol, England, U.K.; January 1979

## PROFESSIONAL & TEACHING EXPERIENCE

March 2011 - present	<b>Project Manager</b> "Strengthening Protected Areas Financing & Management Systems Project"
Feb 2010 – present	<b>Minister Advisor</b> on Biodiversity
Jan 2000	Director, Nature Conservation Sector – Egyptian Environmental Affairs Agency
September 2005 - present	<b>Member</b> , Scientific Environmental Consultancies and Studies, Ain Shams University
April 2004 - present	<b>Member</b> , Cult.Net Centre Board, Alexandria, Bibliotheca
Jan 2001 - present	<b>National Focal Point</b> , for Biodiversity, CMS - Ramsar convention and RAC/SPA (MAP)
Feb 2000- March 2010	<b>Director</b> , Nature Conservation Sector, EEAA, Egypt.
2000 - present	<p><b>Project Manager</b>, Six projects on biodiversity conservation (budget of about US \$ 30 million)</p> <p><b>Chairman</b>, The marine committee of the National CITES, National Committee of Biodiversity, National Committee on Wetlands</p> <p><b>Member</b>, The National IUCN Committee.</p> <p><b>Member</b>, Fisheries and Animal Resources Council, Academy of Science Research and Technology .</p> <p><b>Member</b>, The National Committee on Integrated Coastal Zone</p>
June 1999	<b>Assistant Dean for Extension</b> , College of Agriculture, Sultan Qaboos University (SQU)
1999 - present	<b>Member</b> , Egyptian National Commission for UNESCO
1998	<b>Chief Advisor</b> , Egyptian Environmental Affairs Agency (Nature Conservation Sector)
1996	<b>Consultant</b> , UNEP (Implementation of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities in ROPME and PERSGA Regions)
1996	<b>Consultant</b> , NOAA (Regional ICRI [International Coral Reefs Initiative] Workshop in the Middle East)
1996	<b>Member</b> , European Academy for Environmental Affairs
1995	<b>Professor</b> of Marine Biology, Al-Azhar University
Sept. 1995	<b>Head</b> of Fisheries Science & Technology Department, College of Agriculture, SQU
1990-present	<b>Associate Professor</b> in Fisheries Science & Technology, College of Agriculture, SQU
1992	<p><b>Acting Head</b> of Fisheries Science &amp; Technology Department</p> <p><b>Member</b>, Technical Committee of the Fisheries Research Fund, Ministry of Agriculture and Fisheries</p> <p><b>Member</b>, Curriculum and Standards Committee of the College</p> <p><b>Consultant</b> to Sultan Qaboos University on Environmental Affairs and Fisheries</p> <p><b>Advisor</b>, Marine Science &amp; Fisheries Centre, on marine environment and fisheries</p> <p><b>Coordinator</b>, UNEP Task Team on "Implication of Climate Change on the Red Sea and Gulf of Aden Region".</p> <p><b>Member</b>, UNEP Global Task Team on Implication of Climate Change on Coral Reefs</p>

1987-1990	<b>Associate Professor</b> in Marine Biology, <b>Al-Azhar University</b> , Faculty of Science, Cairo, Egypt <b>Consultant</b> (1) Academy of Scientific Research and Technology (Marine Biology, Fisheries and Natural History Museum), (2) Egyptian Environmental Affairs Agency (3) General Authority for Development of Fish Resources, Ministry of Agriculture (Fish Aquaculture) and (4) Fish Research Centre, <b>University of Suez Canal</b>
1980-1987	<b>Lecturer</b> in Fishery Biology, Marine Communities, Marine Biology and Ecology, Fish Biology, Comparative Anatomy, Vertebrate Evolution, Invertebrate Biology, General Biology, Fish Aquaculture and Animal Behaviour; Faculty of Science, Education, Medicine, Dentistry and Pharmacy, <b>Al-Azhar University</b>
1981-1982	<b>Lecturer</b> in Marine Biology and Ecology, University College for Girls, <b>Ain Shams University</b>
1980-1981	<b>Lecturer</b> in Fishery Biology and Marine Biology, <b>Monofia University</b>
1980-1990	<b>Lecturer</b> in Fishery Biology, Marine Communities, Marine Biology and Ecology, Fish Biology, Comparative Anatomy, Vertebrate Evolution, Invertebrate Biology, Fish Aquaculture and Animal Behaviour; Faculty of Science, Education, <b>Suez Canal University</b>
1975-1979	<b>Demonstrator and Tutor</b> in Marine Biology, Zoology Department, <b>University of Bristol</b>
1972-1974	<b>Demonstrator and Tutor</b> in vertebrate evolution, marine biology, physiology, microtechnique, general biology for pre-medical, dental and veterinary students, Zoology Department, <b>University of Cairo</b>

#### AWARDS RECEIVED

June 2010	Various Awards: H.E. Maged George – Minister of Environment & Minister H. E. Nadia Makram Ebeid - Cedare for achievements on Environmental protection & Biodiversity Conservation
2005	Knight, President of Italy for distinguished achievement in the Italian – Egyptian Environmental Programme
2002-2006	Certificates of Appreciation from Ministries and Governors in Egypt
1999	Certificate of Appreciation for work conducted on marine environment from Gulf Countries Council
1990	British Council Fellowship to visit marine institutions in U.K.
1988	DAAD Award, to study "Red Sea Fishes", Senkenburg and Hamburg Museums, Germany
1986	British Council Fellowship to study Suez Canal gobiod fishes, Bristol University
Aug-Sep 1984	DAAD Award to study "Coral Reef Ecosystem" in Germany
1983	British Council Fellowship to study the feeding requirements of fishes, Aston University, Birmingham
1974 -1979	A member of Egyptian Government Mission to United Kingdom to obtain Ph.D. in Fish Biology, Bristol University

#### SPECIAL INTEREST

1. Biodiversity Conservation
2. Implications of Climate Change on marine environment

3. Red Sea/Suez Canal Ecosystems and Fisheries
4. Environmental pollution
5. Marine reference collection/sorting centre at Al-Azhar University (Egypt) and Sultan Qaboos University - SQU(Oman)
6. Biotechnology with focus on Biosafety
7. Wildlife Conservation and economics
8. Environmental impact assessment
9. Marine Biodiversity
10. Arabian Sea upwelling regime and fisheries

## DIVING EXPERIENCE

BSAC qualified, 3rd class diver, diving in British waters, Red Sea, Gulf of Oman and Arabian Sea.

### RESEARCH EXPERIENCE

2000 – present	Mangroves of the Red Sea
2000 - present	Nature Conservation of Egypt
1990 - present	Fisheries and marine environment of Oman
1984 - present	Aquaculture
1982 - present	Environmental Education, Impact Assessment and Pollution
1980 - present	Biology of Red Sea Fishes, Echinoderms, Molluscs and Crustacea
1981 - 1990	Ecology of Wadi El-Rayyan Lakes (Western Desert)
1974 - 1979	Biology of Fish Scales
1972 - 1974	Ecology of Freshwater Fishes (River Nile, Lake Nasser, Egypt)

### RESEARCH DEVELOPMENT PROJECTS (Principal or Co-Investigator)

- ♣ Strengthening Protected Areas Financing & Management Systems Project, Director
- ♣ Biosafety Project UNEP
- ♣ South Sinai Development project, EU
- ♣ Management of Mangroves in Egypt, ITTO
- ♣ BIOMAP of Egypt, Italian Egyptian Cooperation
- ♣ LIFE Project, Red Sea, US AID
- ♣ Gulf of Aqaba Development Program, EU
- ♣ Saint Katherine Development Program, EU
- ♣ Egyptian Environmental Policy Programme, USAID
- ♣ Medicinal Plants Conservation Projects, GEF
- ♣ Egyptian Italian Environmental Program
- ♣ MedWet Coast Project
- ♣ Sustainable Development of Coastal and Marine Resources along the Gulf Aqaba, PERSGA
- ♣ Rehabilitation, Conservation and Sustainable Utilization of Mangroves in Egypt, FAO
- ♣ Development of Pilot National Programme of Action (NPA) for the Protection of the Marine Environment from Land-Based Activities within the Red Sea area in Egypt.
- ♣ Assessment of Capacity Building Needs in Country Specific Priorities in Biodiversity
- ♣ Management and Conservation in Egypt, GEF
- ♣ Second Matrouch Resource Project, World Bank

- ♣ Self-Assessment of National Capacity in Egypt to Manage the Global Environment, UNEP
- ♣ Ecology of Bardawil Lake, funded by the British Petroleum, Egypt Branch.
- ♣ Biological Control of Intermediate host of Schistosome snails by fishes, funded by Institute of Bilhariz, Egypt.
- ♣ Marine Reference Collection (Red Sea) Centre, funded by Academy of Scientific Research and Technology, Egypt.
- ♣ Unconventional Fish Feed in Egypt, funded by National Research Centre, Egypt.
- ♣ Ecology of Wadi El-Rayyan lakes, Western Desert of Egypt, funded by American-Egyptian Universities Linkage Programme (USAID).
- ♣ Impacts of oil pollution on the Red Sea Coastal biota. Funded by American Protection Agency, U.S.A.
- ♣ Biology of Gobioid Fishes, funded by British Council, Egypt
- ♣ Red Sea Coral Reefs, funded by DAAD, Germany
- ♣ Fish Resources of Dhofar Khawrs (Coastal Lagoons) in the Sultanate of Oman, funded by the Planning Committee for Development & Environment, Governorate of Dhofar, Oman
- ♣ Resource Management of Mangroves in the Arid Environment in the Sultanate of Oman, funded by the Ministry of Regional Municipalities and Environment, Oman
- ♣ Ecological Studies for the protection and management of the coastal zone of Oman: Baseline studies for evaluating long-term changes in coral reefs and reef fish communities in Muscat areas, funded by the Fisheries Research Fund, Ministry of Agriculture and Fisheries
- ♣ Bioeconomic model of kingfish fishery in Oman, submitted for funding from Fisheries Research Fund, Ministry of Agriculture and Fisheries
- ♣ Land-based sources and activities affecting marine environment in Arabian Seas (UNEP)
- ♣ Conservation and management of mangroves in the Sultanate of Oman

#### **REVIEWER/CONSULTANT**

- ♣ National and International legislation on biodiversity for UNDP
- ♣ Global Biodiversity Outlook (GBO 3) for CBD
- ♣ Global Environment Outlook (GEO4) Environment for Development, UNEP
- ♣ Millennium Ecosystem Assessment, UNEP/UNDP/UNESCO/CBD/IUCN
- ♣ Biotechnology Marine Projects, Academy of Scientific Research & Technology
- ♣ May projects executed by governmental institutions, mostly on: environment, tourism, development, national plans on specific issues (e.g. northern coast, western desert, fisheries).
- ♣ GEF Small Grants in Egypt
- ♣ Establishment of Natural History Museum of Egypt
- ♣ Pelagic Resources of Egypt
- ♣ Aquaculture Development of Egypt
- ♣ Development of Lake Bardawil, Egypt
- ♣ Habitat Biodiversity of Egypt
- ♣ Ras Mohammed Marine National Park, Egypt
- ♣ Fisheries Research Programmes, Saudi Arabia
- ♣ Marine Biodiversity of Oman
- ♣ Coral Reef Management Plan of Oman

- ♣ Fisheries Research Programs, Oman
- ♣ Demersal Fisheries Resources of the Arabian Gulf, Gulf of Oman and Arabian Sea
- ♣ Implications of Climate Changes on the Red Sea and Gulf of Aden
- ♣ Implications of Climate Changes on the Coral Reefs of Indian Ocean, Arabian Gulf and Red Sea
- ♣ Cooperative Efforts on Fisheries in the Gulf Region
- ♣ Report on the Recommendation of the 8th Meeting of the ROPME, Kuwait
- ♣ Environmental Impact Assessment of Omans Liquid Natural Gas (LNG) Project
- ♣ Oman's New Fishery Harbours
- ♣ Coral Reefs in the Middle East
- ♣ National Conservation Strategy of Oman
- ♣ Fish Quality Control, Oman
- ♣ Fisheries Resources of the Gulf Region
- ♣ Sustainable use of Marine Resources
- ♣ Marine Protected Areas in the Arab World
- ♣ Land-based sources affecting marine environment of ROPME region

## **REFERENCES**

1. Dr. Hamdallah H. Zedan  
Former Executive Secretary of the Biodiversity Convention  
& current  
Chairman & C.E.O.  
Egyptian Company for Production of Vaccines, Sera & Drugs (VACSERA)  
51 Wezaret El Zeraa Street, Agouza, Giza, Egypt  
Mobile: 0100-1726421  
Tel: (+202) 3761 1111  
E-mail: ceo@egyvac.com
2. PROFESSOR OSSAMA EL-TAYEB  
University of Cairo  
Faculty of Pharmacy  
Cairo, Egypt  
Tel: 0100-6077374  
E-mail: omtayeb@link.net
3. PROFESSOR ANTON MCLACHLAN  
Dean, College of Science  
Sultan Qaboos University  
P.O. Box 36, Al-Khod 123  
Muscat, Sultanate of Oman
4. PROFESSOR P.J. MILLER  
Zoology Department  
University of Bristol  
Woodland Road  
Bristol BS8 1UG  
England, U.K.

## **MEMBERSHIP OF LEARNED SOCIETIES**

- ♣ Member, Egypt Network for Integrated Development in Egypt (ENID)
- ♣ Member, Nature Conservation Egypt
- ♣ Founder and Chairman, Friends of Wadi Hitan (Valley of Whales)
- ♣ Member, Nature Conservation Egypt
- ♣ Member, Natural Toxins Society
- ♣ Member, Egyptian Ecological Society
- ♣ Member, Friends of Protected Areas
- ♣ Founder and Member, Abu Salama Society (Red Sea Marine Mammals)
- ♣ Member, European Academy for Environmental Affairs
- ♣ Member, Network of Tropical Fisheries Scientists (NTFS), Philippines
- ♣ Member, International Society for Mangrove Ecosystems
- ♣ Member, International Society for Reef Studies
- ♣ Member, Egypt Zoological Society
- ♣ Member, Fisheries Societies of British Isles
- ♣ Member, Freshwater Biological Association (U.K.)
- ♣ Member, Bone and Tooth Society (Oxford, U.K)
- ♣ Member, British Ecological Society
- ♣ Member, Egypt Histological Society
- ♣ President, Ornithological Society of Egypt
- ♣ President, Egyptian Scientists for Nature Conservation
- ♣ Member, Friends of the Red Sea; Marine Conservation Society (U.K.)
- ♣ Member, European Mariculture Society (Belgium)
- ♣ Member, Marine Biological Association of India
- ♣ Member, Egyptian Council for Animals and Fisheries Research; Academy of Scientific Research and Technology
- ♣ Member, History of Marine Science Committee, Academy of Scientific Research and Technology
- ♣ Member of the board, Egyptian Council for Scientific Culture
- ♣ Member of the board, Egyptian Society for Marine Technology
- ♣ Member, General Authority for clearing and beautifying Cairo
- ♣ Secretary, Local Development Society, Nasr-City, Cairo

EXPEDITIONS	
June 2011 Dec 2010 2008	Tahiti Islands (Pearl Oyster), Pacific Oceans Global Biodiversity Outlook Implications in Egypt Western Mediterranean Coast of Egypt (Salloum) South Sinai Expedition
2007	Red Sea Expedition
2007	Gilf Kabir Expedition
2006	Wadi Allaqi Biosphere Reserve
2006	Gebel Qatrani, preparation for the World Heritage Site Egypt.
2006	Red Sea Islands, for declaration of Protected Area Egypt.
2005	Wadi Al-Hitan, preparation for the World Heritage Site Egypt.
2004	Qattarah Depression, Western Desert
2003	Siwa Expedition
2003	White Desert Expedition
2003	South Africa National Parks
2002	Gebel Elba Expedition for Development and Management of the Protected Area.
2001	Qatar National Parks
1992	Khawr environment, Dhofar, Sultanate of Oman
1991-1996	Artisanal fisheries of Musandam and Gulf of Masira, Sultanate of Oman
1984-1990	Western Desert of Egypt to Study the Ecology of the Lakes and Desert (Annual expedition during the months of April, June, September & December)
April 1985	Bardawil expedition sponsored by British Petroleum, Egypt Branch (Ecological Studies)
May 1983	Red Sea Expedition sponsored by the Academy of Scientific Research and Technology (oil pollution)
April 1983	O.S.E. Expedition to Gabal Elba Mountain, Red Sea
Oct-Dec 1982	Red Sea Expedition sponsored by the Academy of Scientific Research and Technology (oil pollution)
Sept. 1982	Ornithological Society of Egypt expedition to Bardawil Lake for counting migratory birds
May 1982	Red Sea Expedition sponsored by Egyptian Scientists for Nature Conservation and Ornithological Society of Egypt (oil pollution)
Jan. 1982	Al-Azhar University Expedition to the Egyptian Western Desert (Ecology of foxes)
Feb. 1981	Al-Azhar University Expedition to Suez Canal and Red Sea (Red Sea Biology)
May 1980	Suez Canal University Expedition to the Red Sea (Red Sea Biology)
1978	North Sea, with Fisheries Laboratory at Lowestoft, U.K. (Eel migration studies by tracking silver eels using acoustic transporting tags and sector scanning sonar)
1977	Red Sea, Mediterranean, Northern Lakes; Egypt (Collection of gobioid fishes and preliminary investigation of Red Sea Ecosystem)
1973-1974	Lake Nasser, Egypt and Sudan (Biological and Limnological Studies)

#### CONFERENCES, MEETINGS AND SYMPOSIA

5 – 20 October 2012 Eleventh meeting of the Conference of the Parties to the Convention on Biological Diversity (COP 11), Hyderabad, India

5 – 15 Sept. 2012 African Negotiators for Biodiversity Meeting, Nairobi, Kenya, Arusha

21 – 28 July 2012	Standing Committee 62, CITES, Switzerland
6 – 13 July 2012	11 <sup>th</sup> Meeting of the Conference of the Contracting Parties to the Ramsar Convention - Bucharest, Romania
13 – 15 June 2012	The United Nations Conference on Sustainable Development Rio De Janeiro, Brazil
16 – 21 April 2012	2 <sup>nd</sup> Meeting Intergovernmental Panel on Biodiversity and Ecosystem Services (IPBES) in Panama
18 Feb. 2012	Subregional Workshop on biodiversity and finance for preparation of WGRI-4 and COP-11- Jordan
15-17 Feb. 2012	GEF Meeting at Dead Sea – Jordan
5-9 Feb. 2012	International Symposium on Water and Wetlands in the Mediterranean, The next 20 years Agadir, Morocco
5-7 Sept. 2011	FAO / OECD Expert Meeting on Greening the Economy with Agriculture
28-29 Sept. 2011	1 <sup>st</sup> MedPAN Scientific Committee Meeting - Marseilles
3-7 Oct. 2011	IPBES Intergovernmental Science – Policy Platform on Biodiversity and Ecosystem Services – Nairobi - Kenya
7-11 Nov. 2011	Fifteenth Meeting Body on Scientific, Technical and Technological Advice (SBSTTA 15), Montreal, Canada
20 - 25 Nov. 2011	COP 10 for Convention on Migratory Species (CMS) in Bergen, Norway
Nov.2010	IUCN General Meeting for Mediterranean, Malaga, Spain
Oct. 2010	10 <sup>th</sup> Conference of Parties on Biodiversity, Nagoya, Japan
Sept. 2010	African Conference on Biodiversity, Libreville, Gabon
June 2010	3 <sup>rd</sup> Scientific Conference of the Mediterranean for Marine Biodiversity – Bibliotheca Alexandrina
June 2010	UNDP - Egypt Human Development "Youth in Egypt": Building our Future
May 2010	Dr. Heba Handoussa – Cairo Situation for Action Situation Analysis
March 2010	15 <sup>th</sup> Conference of Parties for the Convention of the Int'l Trade on Endangered Species (CITES) Doha - Qatar
1 – 5 Feb. 2010	Sixth Trondheim Biodiversity Conference, Norway
18-20 Jan. 2010	Informal Expert Consultation on the Revision and Updating of the CBD Strategic Plan, London
10 – 11 Jan. 2010	Regional Workshop for the Middle East and North Africa – Arab League, Cairo
June 2009	9 <sup>th</sup> Meeting of Focal Points for SPAs Malta
December 2008	10 <sup>th</sup> Conference of the Parties to the Convention on the Conservation of Migratory Species of Wild Animals (CMS), Rome
Oct – Nov. 2008	9 <sup>th</sup> Conference of the Parties to the Convention on Wetlands (Ramsar), Changwan, South Korea
July 2008	Second Meeting of Government – Designated Experts on the Application of the Ecosystem Approach (MAP/UNEP) Athens
July 2008	Evaluation of coastal problems at Hurghada, workshop at Hurghada, Red Sea
May 2008	9 <sup>th</sup> Conference of the Parties to the Convention on Biological Diversity (CBD) Bonn, Germany
April 2008	CBD Meeting on Access and Benefit Sharing (ABS), Seychelle
February 2008	Second meeting of the AD Hoc Open ended Working Group on Protected Areas (WG-PA-2) Rome, Italy at FAO Headquarters.
January 2008	Capacity Building Workshop and Briefing of African Delegates – Geneva (GTZ)

November 2007	Fifth Trondheim Conference on Biodiversity: Ecosystems and people – Development and biodiversity – The road to 2010 & beyond Trondheim - Norway
November 2007	Status of Bird Flu in Egypt, supreme committee for combating bird flu
October 2007	Egyptian Coastal systems and needs for an integrated protection. Regione Autonoma Della Sardengna, Italy
October 2007	Expert Workshop on Ecological Criteria and Biogeographic Classification Systems for Marine Areas in Need of Protection Azore, Portugal
September 2007	Biodiversity Conservation in Egypt IUCN, Malaga, Spain
June 2007	8 <sup>th</sup> Meeting of Focal Points of RAC/SPA, Palermo, Italy.
May 2007	5 <sup>th</sup> International Conference Environment (Enviro 2007) Cairo.
February 2007	Government – Designated Expert Meeting on the Application of the Ecosystem Approach by the Mediterranean Action Plan, Athens.
November 2006	Euro – Mediterranean Environmental Partnership. Horizon 2020. Cairo.
July 2006	30 <sup>th</sup> Meeting of the World Heritage Committee, Lithuania
March 2006	The Third / Eight Meeting of the Conference of the Parties serving as the meeting to the Cartagena Protocol and Biodiversity Curitiba, Brazil
February 2006	Ninth special session of the Governing Council, of UNEP Dubai
February 2006	Fourth meeting of the Ad Hoc Open-ended Working Group on Access and Benefit-sharing Granada – Spain
December 2005	Cartagena Protocol on Biosafety – Second meeting of the Conference of the parties of the Convention serving as the meeting of the Parties to the Protocol Montreal – Canada
November 2005	9 <sup>th</sup> Meeting of the Conference of the Parties to the Convention on Wetlands (Ramsar COP9) Kamplala – Uganda
February 2005	Tenth Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice Bangkok – Thailand
February 2004	The Seventh Meeting Conference of the Parties to the Convention on Biological Diversity Kuala Lumpur, Malaysia
November 2003	Ninth Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice , CBD, Montréal, Canada
October 2003	Med Wet Coast Regional Steering Committee Meeting, Tunis
September 2003	Vth World Parks Congress, Durban, South Africa
September 2003	Liaison Group Meeting on Protected Areas , CBD, Durban, South Africa
June 2003	the Sixth National Focal Point Meeting For SPA. Marseilles, France
June 2003	The Conference on Technology Transfer and Capacity Building, Trondheim, Norway
May 2003	Meeting on “2010” – the Global Biodiversity challenge, London, United Kingdom
March 2003	Mediterranean- Fair of the Parks of the Mediterranean. Bari, Italy.
March 2003	Eighth Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice , CBD, Montréal, Canada
February 2003	WCPA Meeting, Riyadh, Saudi Arabia
December 2002	Joint Meeting of the Bureaux of ICCP and COP-6, Montréal, Canada
November 2002	8 <sup>th</sup> Meeting of the Conference of the Contracting Parties to the Convention on Wetlands
August 2002	World summit on Sustainable Development, Johannesburg, South Africa
July 2002	3 <sup>rd</sup> Global Taxonomy Workshop, Pretoria, South Africa
June 2002	The Second Med Wet Coast Regional Advisory committee. Tour du Valat, France

June 2002	The 1 <sup>st</sup> Islamic Conference for Arab Ministries for Environment, Saudi Arabia
March 2002	Second Meeting of the GEF Coordination for the GEF project , Tirana, Albania
March 2002	Symposium on ecotourism, Riyadh, Saudi Arabia
January 2002	The regional Workshop on the Conservation of the Red Sea environment, Riyadh, Saudi Arabia.
October 2001	The Meeting of Expert on Coastal habitat types in the Mediterranean region, Montpellier, France
May 2001	Meeting of the Med POL National Coordinators, Venice, Italy
April 2001	Regional Advisory committee of the Med Wet Coast project, Rabat, Morocco
March 2001	Six Meeting of the Subsidiary Body on Scientific, Technical and Technological Advice , CBD, Montréal, Canada
March 2001	Capacity Development Initiative Regional Consultant Workshop, Cape town, South Africa
February 2001	2 <sup>nd</sup> BPSP workshop, Beirut, Lebanon
July 1988	Pan-African Conference on Sustainable Integrated Coastal Management, Mozambique
April 1998	International Symposium on Mangrove Ecology and Biology, Kuwait
August 1997	9th European Ichthyological Congress, Trieste, Italy
April 1997	International Conference on the Biology of Coastal Environments, Bahrain
December 1996	Workshop on Implementation of the Global Programme of Action for the Protection of Marine Environment from Land-based Activities in ROPME and PERSGA Region, Bahrain
May 1996	Symposium on Importance of Protected Areas in the Conservation of Wildlife, Kuwait
October 1995	Sea to Conference on Sustainable Use of Marine Resources, Jeddah, Saudi Arabia
June 1995	International Coral Reef Initiative Workshop, Dumaguete City, Philippines
December 1994	Fisheries Resources of the Gulf Region, FAO, Muscat, Oman
December 1994	Regional Environmental Symposium on Ecosystems, Environmental Protection and Graduate Education in Environmental Sciences, U.A.E. Al-Ain, U.A.E.
October 1994	Mesopelagic Resources of the Gulf Region, FAO, Muscat, Oman
July 1994	Annual Meetings of the Fisheries Society of British Isles, Glassgow, Scotland, U.K.
May 1994	Gulf Symposium on Environmental Biology, University of Qatar, Doha, Qatar
April 1994	Symposium on Red Sea Marine Environment, King Abdulaziz Univ., Jeddah, Saudi Arabia
September 1993	Role of Youth on Nature Conservation, Muscat, Oman
September 1993	Asia-Pacific Symposium on Mangrove Ecosystem, Hong Kong
July 1993	Annual Meeting of the Fisheries Society of British Isles, Conway, Wales, U.K
June 1993	Second Meeting of the Global Task Team on the Implications of Climate Change on Coral Reefs, Miami, Florida, U.S.A.
December 1992	National Conservation Strategy for the Protection of the Environment, Muscat, Sultanate of Oman
June 1992	7th International Coral Reef Symposium, Guam, U.S.A.
February 1992	First Meeting of the Task Team on Implication of Climate Change in the Red Sea and Gulf of Aden, Ismailia, Egypt
March 1990	Zoological Society of Egypt, Cairo
October 1989	International Centre for Conservation Education, Cheltenham, U.K.

October 1989	Nature Conservancy Council, Taunton, U.K.
October 1989	British Museum (Natural History), London
September 1989	Laboratory of Marine Biology, Free University, Brussels, Belgium
September 1989	2nd European Conference on Echinoderms, Brussels, Belgium
October 1988	Senkerberg Natural History Museum, Frankfurt, West Germany
October 1988	Institute of Hydrobiology and Fisheries, Hamburg, West Germany
September 1988	Institute of Zoology & Zoological Museum, Hamburg, West Germany
September 1988	Biologische Anstalt Heligoland, Hamburg
August 1988	Great Barrier Reef Marine Park Authority, Townsville, Australia
August 1988	Australian Marine Science Institute, Townsville, Australia
August 1988	International Symposium on Cave Animals, Hamburg
August 1988	Joint Oceanographic Assembly, Mexico
August 1988	6th International Coral Reef Symposium, Australia
September 1986	British Museum (Natural History)
September 1986	University of Aberdeen, Scotland
September 1986	British Association for Advancement of Science, Bristol, U.K.
August 1986	Marine Biological Association, Plymouth
July 1986	National Museum of Wales, Cardiff
December 1985	Marine Research Station, Aqaba, Jordan
December 1985	Expert Meeting on Development of Marine Sciences in Arab Universities, Aqaba, Jordan (Sponsored by UNESCO)
October 1985	International Conference on the Conservation of Migratory Species of Wild Animals (Sponsored by UNEP, West Germany).
Aug.-Sept 1985	Mediterranean Youth Environment Conference, Egypt and Spain.
January 1985	Central Marine Fisheries Research Institute, Cochin, India.
January 1985	Symposium on Endangered Marine Animals and Marine Parks, Cochin, India
September 1984	British Museum (Natural History), London.
September 1984	British Museum of Natural History, Leiden, Holland
September 1984	Biologische Anstalt Helligoland (Central) Hamburg, West Germany.
September 1984	Institute of Hydrobiology & Fisheries, University of Hamburg, West Germany.
September 1984	University of Hamburg, West Germany
August 1984	University of Essen, West Germany
August 1984	University of Bochum, West Germany
August 1984	Frankfurt am-Main, West Germany
August 1984	Hessian State Museum, Darmstadt, W. Germany (Coral Reef Study).
July 1984	International Conference on Fish Feeding and Nutrition held in Aberdeen, Scotland.
November 1983	International Conference on the Development of Lake Bardawil (Sinai) Fisheries, Al-Arisch.
October 1983	International Conference on the Protection of Cairo from pollution, Cairo, Egypt.
October 1983	The First Arab Meeting for Youth and Environment, Cairo, Egypt.
September 1983	Mabahis-John Marry International Symposium on Marine Science of the North-West Indian Ocean and Adjacent Waters, Alexandria.
September 1982	4th European Ichthyological Congress, Hamburg Germany.
August 1982	International Training Course on Wildlife, Sharm El-Sheikh.
April 1982	International Conference on Marine Science in the Red Sea (Al-Ghardaqa).
February 1982	International Training Course on Wildlife in Siani, Cairo, Egypt.
October 1978	Bone and Tooth Society Meetings, Oxford.

September 1978	Symposium on Skin of Vertebrates, London (Linnean Society of London and British Association of Dermatologists).
July 1978	Freshwater Biological Association, London.
April 1978	Zoological Society of London (Fish Phenology).
September 1976	Second European Ichthyological Congress, Paris.
October 1975	British Ecological Society, London.
November 1974	Zoological Society of London (Fish Phenology).
August 1972	8th Conference for Arab Scientists, Cairo, Egypt.

## GUEST LECTURES

July 2012	Sustainable Development and Protected Areas submitted to Egyptian Forum for Sustainable Development
June 2012	Outcomes of RIO+20 presented at Arab Office for Youth and Environment
June 2012	Green Economy and Protected Areas – Modern Academy, Cairo
May 2012	Economics of Protected Areas New Innovative Approach in Egypt.
Feb. 2012	Cairo University
Dec 2011	Preparations for RIO+20 in Sustainable Development Committee, Egypt
	New Trends Natural Marine Toxins. Egypt Toxicological Society
July 2011	Strengthening Protected Area Financing and Management Systems in Egypt.
	Inception Workshop UNDP/EEAA
Nov. 2010	Status of Biodiversity in Egypt - Bibliotheca - Alexandria
March 2010	Ecotourism in Egypt – American University in Cairo
Feb. 2009	Conservation and Management of the Geological World Heritage Site, Wadi Hitan, Fayoum, Egypt.
Dec. 2008	Recent approaches on the Genome of Marine Toxic Living Organisms.
	3 <sup>rd</sup> International Conference on Natural Toxins - Egyptian Society of Natural Toxins, Cairo
Dec. 2008	Status of Biodiversity in Egypt. CBD / Arab League, Cairo
September 2008	Goods and Services of Ecosystems case studies from Egypt. UNESCO National Committee, Cairo
August 2008	Current Touristic Coastal Development and their impacts on Biodiversity, Hurghada
July 2008	Exsitu Conservation in Egypt 3 <sup>rd</sup> International Conference on Environment, Ismailia, Egypt
June 2008	Coral Bleaching in the Egyptian Red Sea Int. Env. Day, EEAA, Cairo, Egypt
April 2008	International Workshop on Evaluating Climate Change & Development – Bibliotheca - Alexandria
March 2008	Strategy of Egyptian Wetlands National Committee on Wetlands
November 2007	Current Status of Bird Flu in Egypt. Workshop at Arab League, Cairo
August 2007	Biodiversity Planning and Achievement in Egypt. EEAA, Cairo
July 2007	Socio-Economics & Human Health Impacts of Gently Modified Organisms (GMOs) 2 <sup>nd</sup> International Conference on Environment. Ismailia, 2007
June 2007	Case studies of climate changes in Egypt. International Environment Day, EEAA, Cairo, Egypt
May 2007	Ecotourism and Protected Areas in Egypt. 5 <sup>th</sup> International Conference Environment (Environment 2007), Cairo, Egypt.
April 2007	Services and products of the desert ecosystems, with emphasis on Protected Areas in Egypt. National Commission of UNESCO, Cairo.
March 2007	Genetically Modified organisms: Application of Cartagena Protocol, CBD, Academy of Scientific Research and Technology, Cairo.
February 2007	Status of Protected Areas in Egypt. Ministry of Justice, Cairo

January 2007	Goods & Services of Ecosystems in Egypt – Academy of Scientific Research & Technology
November 2006	Socioeconomics of Genetically Modified Organism. 3 <sup>rd</sup> International Conference Toxicology, Cairo, Egypt.
September 2006	Status of Biodiversity Conservation in Egypt, 3 <sup>rd</sup> International Conference Sustainable Development, Alexandria, Egypt.
July 2006	Biodiversity of Botanical Gardens in Egypt. 2 <sup>nd</sup> International Conference Botanical Gardens, Cairo, Egypt.
July 2006	Genetic Resources of Egypt. International Conference Environment. Ismailia, Egypt.
June 2006	Treasures of the Desert. International Environment Day, EEAA, Cairo
June 2006	Biodiversity and Scientific Research. Al-Azhar University, Cairo.
April 2006	Development of Qaroun Lake Protected Area, Fayoum University
February 2006	Measures Taken in Egypt Against Bird Flu. Ministry of Petroleum, Cairo.
January 2006	Institutional Reform of Nature Conservation Sector, EEAA, Cairo.
November 2005	Master Plan of Fayoum, with Emphasis on Ecotourism in the Protected Areas. EEAA, Cairo.
August 2005	Wadi El-Hitan – Natural World Heritage site (A presentation to the Prime Minister)
2005	The great Rift Valley and the World Heritage Convention, Arab League Meeting on World Heritage Sites, Cairo
2005	Cultural & Natural Landscapes of Elba Protected Area & their Management
2005	Effective Management of Marine Protected Areas in the Egyptian Red Sea.
2005	Nature Conservation between present needs & future challenges
2005	Egyptian Seas: Dead or Alive
2004	Conservation of Biodiversity & Ecosystem Management in Islands of the Nile River
2004	Ministry of Environment's Effort in Nature Conservation in Egypt
2004	New Perspective for Conserving Cultural Heritage – Protected Areas
2004	Role of Protected Areas in Conservation & Sustainable Development in Egypt
2004	Protected areas and conserving medicinal plants aromatic - Annual meeting of the Egyptian of Medicinal plants.
Aug / Sept. 2003	IUCN – A status report on the protected area network of Egypt – Durban – South Africa
2003	International trends in Biodiversity and Taxonomy
2003	Protected Areas and Ecotourism in Egypt: – socioeconomic development.
2003	IUCN - Threatened Species in Egypt – List of threatened & Protected Fauna & Flora in Egypt
Sept. 2002	Biodiversity & Water: World Meteorological Organization – Water – Energy & Climate Special Environmental Issues - in Johannesburg
2002	Nature Conservation in Egypt – An overview of History, Achievements & the future agenda
2002	Implications of Climate Change on the Red Sea Environment. EEAA, Cairo
June 1988	"Bird Fauna of Egypt" Love Tree Association, Cairo, Egypt.
February 1988	"Forests of the Red Sea". Love Tree Association, Cairo, Egypt.
November 1987	"Fish & Fisheries of Wadi El-Rayyan". Zool Soc., Egypt.
November 1987	"On the Benthic Biota of Bardawil Lagoon". Zool. Soc., Egypt.
September 1985	"Marine Biology of Egypt", Cairo, Egypt.
August 1985	"Introduction to Egyptian Environment", Mediterranean Youth Environment Conference, Cairo, Egypt.

January 1985	"Status of some endangered marine animals and marine parks in the Red Sea". Symposium on Endangered Marine Animals & Marine Parks, Cochin, India.
August 1984	"Ecology of Wadi El-Rayyan Lakes". University of Essen, West Germany.
July 1984	"The Mineral Composition of <i>Tilapia nilotica</i> tissues". International Conference, Fish Feeding & Nutrition, Aberdeen, Scotland.
March 1984	"Marine Research in Egypt". University of Aston, Birmingham England.
September 1983	"Marine Pollution in the Arab World". The First Arab Meeting for Youth and Environment. Al-Ahram, Cairo, Egypt.
June 1983	"Development of Fisheries in Lake Bardawil". Training Course organized by General Authority for Development of Fish Resources. Al-Arish, Sinai.
August 1982	"Biography of the Red Sea". International Training Course on Wildlife, Sharm El-Sheikh, Sinai.
May 1982	"Pollution of the Red Sea". Egypt Soc. Prot. Nat. Resources.
February 1982	"Freshwater and Desert Ecology". Ministry of Education, Training Centre, Cairo, Egypt.
April 1981	"Wonders of the Red Sea". Suez Canal University.
January 1980	"Systematics and Biology of a Red Sea goby <i>Silhouetta aegyptia</i> . Symposium on the Coastal & Marine Environment of the Red Sea & Gulf of Aden".
December 1978	"Calcification of Fish Scales". MRC Bone Research Laboratory Nuffield Orthopaedic Centre, Oxford.
April 1978	"Studies on seasonal cycles in fish scales". Institute of Orthopaedics University of London, Royal National Orthopaedic Hospital, Stanmore.
January 1978	"Structure of Fish Scales". Dental & Medical School, University of Bristol.
December 1977	"Alkaline phosphatase in fish scales". Department of Chemical Pathology, University of Sheffield Medical School.

#### ADVISOR COMMITTEE - SUPERVISION OF MSc & PhD THESES

M.Sc. 2011	Ecological Studies on some marine invertebrates at Abu Galloum Protected Areas
M.Sc. 2011	Ecological Studies on Egyptian Gazelle, South Sinai
M.Sc. 2010	Impacts of Tourism on Coral Reefs in Egypt
M.Sc. 2010	Evaluation of Mangroves in Egypt
Ph.D. 2009	Towards Evaluation of Ras Mohamed National Park Natural Resources using GIS & Remote Sensing Techniques
MSc. 2009	Ecological Relationship between Marine Benthos Inhabiting Mangrove Habitats in the Red Sea Coast, Safaga
MSc. 2006	Ecotourism in the Protected Areas. Ain Shams University.
Ph.D. 2006	Biological & Physiological Studies fresh water lobster in Egypt
Ph.D. 2006	Environmental Crisis and Environmental Catastrophes on Coastal Area for Abu Dhabi / Emirates
MSc. 2006	Cost-Benefit Analysis of Environmental Impact Assessment for Aquaculture Projects (Case study of Wadi El-Rayyan Protected Area)
Ph.D. 2005	Sedimentological studies of the accumulated salts and their environmental hazardous at El-Ratma Dameitta-Egypt
MSc. 2005	Ecological and Biological Studies in Some intertidal Benthic Communities in Suez Gulf, Red Sea, Egypt
MSc. 2005	Some ecological and biological aspects of the Crown of Thorns ( <i>Acanthaster Planci</i> ) on coral communities of the northern Red Sea
Ph.D. 2005	Environmental Management of Coral Reef Ecosystem in the Red Sea
M.Sc. 1998	Evaluation of Fisheries Extension System in the Sultanate of Oman
Ph.D. 1996	Biological Control of Intermediate Hosts of <i>Schistosomiasis</i> Snails by Fishes

PhD. 1996	Reproductive Energetics of Gobioid Fishes
MSc. 1996	Evaluation of Omans Fisheries
Ph.D. 1995	Ecology of Cyprinodont Fishes in Suez Canal
PhD. 1995	Biology of Gobioid Fishes
MSc. 1994	Ecology of Mangroves in Oman
MSc. 1994	Feeding ecology of some Freshwater molluscs
PhD. 1992	Biological Studies on some brachyuran crabs of the Suez Canal
PhD. 1992	Evaluation of fish silage in nutrition of fishes
MSc. 1992	Biology of mullets from the Suez Canal Lakes
PhD. 1991	Ecological studies on the Bivalves of the Suez Canal
PhD. 1991	Ecological studies on gastropods of the Suez Canal and Bardawil Lakes
MSc. 1991	Biology of small-size fishes inhabiting mangroves of the Red Sea
PhD. 1990	Physiological studies on some domesticated birds and mammals
MSc. 1990	Biological studies on <i>Atherina spp.</i> from Timsah and Bitter Lakes, Suez Canal
PhD. 1990	Taxonomical and Zoogeographical Studies on <i>Ophiuroidea</i> (Echinodermata) from the Red Sea
MSc. 1990	Studies on the Biological Control of Intermediate Hosts of <i>Schistosomiasis</i> by some Nile fishes
PhD. 1989	Biology of <i>Tridacna sp.</i> from the Red Sea
MSc. 1989	Biological value of fish silage supplemented used in feeding/growing fishes
MSc. 1989	Ecological Studies on <i>Aphanius spp.</i> from Suez Canal Lakes
MSc. 1989	Heavy Metal Pollution on Fishes from the River Nile
PhD. 1988	Development of Ricefield Fish Farming in Egypt
MSc. 1987	Jellyfish Dermatitis
MSc. 1987	Feeding Requirements of the Grass Carp
MSc. 1986	Structure and Ecology of Red Sea Coral Reefs
MSc. 1986	Ecology of Red Sea Molluscs (Gastropoda)
MSc. 1986	Ecology of Red Sea Coral Reef Fishes (Surgeonfishes)
MSc. 1986	Ecology of Red Sea Coral Reef Fishes (Damselfishes)
MSc. 1986	Red Sea Echinoderms (Biological and Ecological Studies)
MSc. 1985	Parasitic Protozoa in domesticated birds
PhD. 1982	Feeding Ecology of Lake Manzalla Fishes

## PUBLICATIONS / REPORTS

- ♣ Fouda,M.M. (2012) Status of Biodiversity in Protected Areas in Egypt
- ♣ Fouda,M.M. (2011) Impact of Climate Change on Mangrove of Arabia (in press)
- ♣ Fouda,M.M. (2011) Biodiversity of Mangroves in Arab Countries (in press)
- ♣ Fouda,M.M. (2011) Report on the 10<sup>th</sup> Conference of Parties (COPs of CMS) Burgen, Norway
- ♣ Fouda,M.M. (2011) National and International legislation on biodiversity
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- ♣ Fouda,M.M. (2010) Case study on Ecotourism in Egypt
- ♣ Fouda,M.M. (2009) 4<sup>th</sup> National Biodiversity Report on CBD
- ♣ Fouda,M.M. (2008) a-Recent approaches on the toxic marine genomes, Natural Toxins Soc. December, Cairo
- ♣ Fouda,M.M. (2008) b-Recent Trends in Biodiversity Conservation in Egypt, Cairo GEF/Nationwide Dialouge

- ♣ Fouda,M.M. (2008) c-Biodiversity Financial Resources and Mechanisms in Egypt (GEF / National Dialouge
- ♣ Fouda,M.M. (2008) d-Egypt's Biodiversity Country Profile - CBD
- ♣ Fouda,M.M. (2008) e-4<sup>th</sup> Report on COP 9 on CBD, on Bonn – Germany
- ♣ Fouda,M.M. (2008) f-3<sup>rd</sup> National Report on Ramsar
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- ♣ Fouda,M.M. (2007) Final report on mangrove utilization and management
- ♣ Fouda, M.M. (2006) New trends in biodiversity Conservation and genetic resources 21stAnnual Conference on Environment and Genetics. Ain Shams University
- ♣ Fouda, M.M.(2005) a-Marine biotoxins: A new treasure 2nd conference on animal and plant toxins. 6th October University, Cairo.
- ♣ Fouda, M.M. (2005) b-Ecotourism and Protected Areas in Egypt. Annual Conference on Egyptian Environment, EEA.
- ♣ Fouda, M.M. (2005) c-Marine Conservation in Egypt. Annual Conference on Marine Environment, Al-Azhar University.
- ♣ Fouda, M. M. (2003). a-Biodiversity and Tourism. A Lecture Presented at Annul Meeting of the Egyptian Nature Conservation Sector.
- ♣ Fouda, M. M. (2003) b-Technology Transfer in the field of Biodiversity. A Lecture Presented at the annual Meeting of the Egyptian Nature Conservation Sector.
- ♣ Fouda, M. M. (2003) c-Biodiversity and Tourism, 3rd annual Meeting on Protected Area in Egypt.
- ♣ Fouda, M. M. (2003) d-An Overview of the Arid and Sub-and biodiversity Program in Egypt.
- ♣ Fouda, M. M. (2003) e-Ecolodge in the Protected Areas. 1<sup>st</sup> International Conference on Tourism, Cairo.
- ♣ Fouda, M. M. and Shehata, A. (2003) f-Investment of Protected Areas in Egypt
- ♣ Fouda, M. M. (2003)g-New perspective for conserving cultural heritage. Protected Areas. International workshop cultural Heritage, Egypt October, 2003.
- ♣ Fouda, M. M. and Baha el Din, Sherif. (2003) h-Protected Areas in Egypt, Celebrating two decades of conservation. Environment 2003. Egypt. October, 2003
- ♣ Fouda, M. M. (2003) i-Effective Management of Marine Protected Areas in the Egyptian Red Sea. Vth World Congress on Parks, Durban, South Africa.
- ♣ Gaban Alla, A., Khafagi, F. Salwa, W. and M. M. Fouda (2003)j- Effects of solving watering regime an seedling emergency, development and subsequent plantlet configuration of Avicennia marina (Forssk.) Vierh 3rd International conference. Egypt. Brit. Bio. Soc. pp.10
- ♣ Fouda, M. M. (2002) a-Biodiversity and water. World Meterlogical Organization. Water, energy and climate. Special environmental issues. WSSD. Johannesburg, South Africa. September 2003,
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- ♣ Fouda, M. M., El – Sayed, A. A and F. M. Fouda (2002) c-Biodiversity and ecology of Crustacean fauna in the Manageable Ecosystems along the North – Western Red Sea Coast. 1st Egypt International Conference on Protected Areas and Sustainable Development. Sharm el sheikh. October, pp 120
- ♣ Fouda, M. M. (2002) d-Ecotourism in Protected Areas. International symposium. Ecotourism

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- ♣ Fouda, M. M. (2002) f-A proposal for the establishment of the Siwa Protected Area. A report submitted to Egyptian Environmental Affairs Agency.
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- ♣ Fouda, M. M. (2002) h-A proposal for the establishment of Wadi El-Gemal Protected Area. A report submitted to Egyptian Environmental Affairs Agency.
- ♣ Fouda, M. M. (2002) i-Role of Protected Areas in Conserving Medicinal Plant.
- ♣ Fouda, M. M. (2002) j-Global Overview on Invasive Species. Egypt. National Workshop on Invasive Species, Ain Shams University.
- ♣ Fouda, M. M. Hassan, O. and A. de Grissac. (2001) a-Marine and Coastal Protected Areas with the Gulf of Aqaba: An exculpate of balance between conservation and development with the arab Republic of Egypt. Proc. 1 int. meet. Tourism, Environment and Natural Parks. Sharm El Sheikh, Egypt. P. N – 79-81.
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## CURRICULUM VITAE

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### EDUCATION

B Sc. in General Biology, Biology Department, Science Faculty, Addis Ababa University,  
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Uppsala, Sweden, 1985.

### EMPLOYMENT RECORD

**Employer:** Addis Ababa University (from 1977 to present);

#### Positions Held:

- Professor of Botany, Since 1998 at the Faculty of Life Sciences
- Associate Professor/ Assistant Professor/ Lecturer/Assistant Lecturer of Biology Department,  
Science Faculty (1978 to 1998).
- Dean of the Science Faculty (1996-2000)
- Keeper of the National Herbarium (1996 to date) and Leader of the Ethiopian Flora Project (1996 - 2010)
- Special Professor of Biodiversity in the School of Biosciences, University of Nottingham since June 2010
- Honorary Research Fellow of the Royal Botanic Gardens, Kew, UK since Dec. 2002
- Serving as a member Multidisciplinary Expert Panel (MEP) for the Intergovernmental Panel  
for Biodiversity and Ecosystem Services (IPBES) since 2013.

## **KEY AREAS OF EXPERIENCE AND PARTCIPATION**

- **Biodiversity** - Worked over three decades on the documentation of the plant resources of Ethiopia and Eritrea (the Plant diversity both wild and cultivated) including the Indigenous Knowledge on the use of plants by indigenous communities.
- Also participated on Biodiversity studies in other African countries: Usambara in Tanzania; Mefou and Mt. Kupe in Cameroon; Weichaw in Ghana; Cape Region in South Africa and Kibale Forest in Uganda .

## **Environment and natural Resources**

Engaged in understanding the causes and effects of changes in the environment with main focus on the natural resources.

- 2011. Participated in consultancy work for environmental study on selection of routes for ETHIOPIA – KENYA POWER INTERCONNECTION PROJECT as part of Tropics-Gama Consultants for the Ethiopian Electric Light & Power Authority, 2011.
- 2010. Participated in consultancy work for environmental pre-feasibility study of Beko-Abo hydropower project – for the Ministry of Water Resources as part of the NORPLAN-NORCONSULT in association with Tropics and Shebelle Engineering PLC in 2010.
- 2009. Participated in consultancy work for Environmental aspects for the Woreda Integrated Development Programs (WIDP) for Ethiopian Rural Road Authority in Seven Woredas in the Southern Region as part of Addis Anteneh and Associates Consulting Firm between 2007-2009.
- 2007. Participated in consultancy work on Biodiversity Survey of Wembera-Guba-Gelego Road as part of NIRAS, in joint venture with Roughton International and Beza Consulting for the Ethiopian Road Authority in 2007.
- 2007. Biological and Physical Assessment of the Tana-Beles Hydropower Project in Ethiopia in October 2007. This involved field visits to all dams (Ribb, Megech, Gilgel Abbay) and identifying impacts in potential irrigation schemes around Lake Tana, the Tana-Beles Hydropower building site and along the Beles River and reported to SMEC Plc.
- 2005. Environmental Impact assessment on the Lakes Abaya and Chamo for the Ethiopian Protection Authority through Eco-Consult in 2005 funded by IUCN (the International Union for the Conservation of Nature).
- 2005. Environmental Impact assessment on Cheffa Wetlands for the Ethiopian Protection Authority through Eco-Consult in 2005 funded by IUCN (the International Union for the Conservation of Nature).
- 2005. Environmental Impact Assessment on Debremarkos-Mankush (Guba) and Gonder-Metema as part of the Ethiopia-Sudan Power Systems interconnection Project for SMEC International through Eco-Consult in 2005 funded by World Bank.
- 2005. Environmental Impact Assessment on Gonder-Metema as part of the Ethiopia-Sudan Power Systems interconnection Project for SMEC International through Eco-Consult funded by Worldbank.

- 2004. Prepared the Ethiopian Biodiversity Strategy and Action Plan Document, which is the blue print for the sustainable use of the natural resources and their effect into the environment.
- 2001. Environment Impact Assessment on the Flora and Fauna on the Benshangul Gumuz Region on the Sherkolle-Guba Road in 2001 for Dana Consult funded by NORAD.
- 1998. Environmental Impact Assessment of the Tekeze Hydropower Project in Tigray, 1998, for Water and Sewerage Authority funded by the Ethiopian Government. 1996. Environmental Impact Assessment of the Sibilu and Gerba Rivers in Shewa, for Water and Sewerage Authority funded by World bank.
- 1996. Environmental Impact Assessment of the Sibilu and Gerba Rivers in Shewa, for Water and Sewerage Authority funded by World Bank.
- 1995. Identification of the botanical resources in Harennna Forest, Bale Region, in order to evaluate its potential for sustainable use and its potentials as a source of many perennial rivers draining into the lowlands for the Woody Biomass Project funded by World Bank.
- 1995. Survey of Forests and Utilization of the resources to the community in order to develop Integrated Forest Management Project in Dodola Wereda, Oromiya Region, Bale zone, for Project funded by the German Development Cooperation (GTZ).
- 1994. Ecological Evaluation of Hidi Ale and Dubulk areas in Sidamo, Funded by the International Institute for Sustainable Development.

### **Document Preparation**

- Participated in consultancy work in the preparation of the Biodiversity Strategy and Action Plan Document for the Institute of Biodiversity Conservation in 2005.
- Participated in consultancy work on the preparation of the National Biosafety for the Environmental Protection Authority in 2002.
- Member of the task force that draft policies and strategies for the conservation and development of the plant genetic resources of Ethiopia 1992-1994.
- Member of a consultant group that prepared a national report for the United Nations Conference on Environment and Development held in Rio, Brazil in 1992.
- Chairman of the National Organizing Committee for the First International Conference on Aids in Ethiopia held in Addis Ababa, between 7-10 Nov. 1999.

### **Evaluation of Institutions**

- Review the South African National Biodiversity Institute in 2004 and to evaluate the implementation of the NBI Corporate Strategic Plan 2000 – 2004, which involved visiting three botanic gardens in South Africa for the South African Government.
- Review the Royal Botanic Gardens Scientific activities 1995-1999 and to evaluate the

implementation of the Corporate Strategic Plan 2000 – 2005, which involved visiting all the scientific units of the Royal Botanic Gardens and Wakerhurst in 1999 for the British Government.

### **Teaching and Post-graduate Training**

- Teaching botany and natural resources for postgraduate programs in Addis Ababa University
- Advised over 50 MSc and 13 PhD students in the past and currently 8 PhD candidates in areas of Biodiversity (Biodiversity, Vegetation (Forests, Woodlands, wetlands and Environment)).
- Serving as an external examiner for the University of Lesotho since 2007-2010; University of Pretoria, 2012.

### **Current Projects**

1. Leading a thematic Research project on the **Restoration of Upper Awash and Ghibé Watersheds, and Western Escarpments of the Central Rift Valley: Mechanisms for Re-establishing Biodiversity, Ecosystem Functions, and Livelihoods**
2. Establishing an international identity for the frankincense and myrrh resins of northern Kenya and southern Ethiopia and expanding the market sphere for sustainable trade in this important arid land resource.
3. Mapping actual vegetation of Ethiopia

### **MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS AND ACADEMIES**

- Member of the Council of the International Association for Plant Taxonomy for the period 2011-2017.
- Member of the Regional Working Group on Wetlands within Nile Basin initiative 2007-2010
- Member of the Biological Society of Ethiopia since 1990 and served as President 1996-2000.
- Member of the International Association of Plant Taxonomists since 1985.
- Member of the AETFAT (Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale), since 1984 and the Secretary General, 2000-2003.
- Member of the Natural Products Research Network for Eastern and Central Africa (NAPRECA), since 1984.
- Member of the Mountain Society, since 1987.
- Member of the Ethiopian Wildlife and Natural History Society, since 1987.
- Member of the National Heritage Trust since 1994 and served as Vice President, 1998-2004.
- Member of the International Species Plantarum Steering Committee, since 1999

### **MEMBERSHIP OF ACADEMIES**

- Fellow of the World Academy of Sciences (TWAS) in Tianjin, China, on 18 September 2012
- Fellow & Board Member of the Ethiopian Academy of Sciences, since its establishment in April 2010.
- Member of the Royal Danish Academic of Sciences and Letters since 10 April 2008

## **AWARDS and HONORS**

- Received Honorary Degree of Doctor of Science from the University of Nottingham, UK in July 2010
- The recipient of the 2002 Dennis Stanfield Award of the Linnaean Society
- Award winner of the 1993 Senior Fulbright Grant selected by J. William Fulbright Foreign Scholarship Board under the Educational Exchange Act sponsored by the United States Information Agency
- The National Winner of the 1993 Third World Academy of Sciences (TWAS) Prize for young scientists in the south in the field of Biology.

## **CONFERENCES AND WORKSHOPS (Since 2003)**

- The Second Plenary Meeting of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES-2) held in Antalya, Turkey, 9-14 Dec. 2013.
- International Expert and Stakeholder Workshop on the Conceptual Framework for International Panel on Biodiversity and Ecosystem Services (IPBES) held from 25 – 26 August, 2013 and Multidisciplinary Expert Panel (MEP) meetings from 27 – 31 August in Cape Town, South Africa
- Trondheim Conference on Biodiversity, entitled “Ecology and Economy for a Sustainable Society”, held on 27-31 May 2013 in Trondheim, Norway
- Distinguished Keiser Lectures in Life Sciences from 26-28 October, 2011 at Ohio Northern University (enclosed). This is still posted on the web as **Keiser Lecture 2011**, Ohio Northern University ([http://www.onu.edu/academics/college\\_of\\_arts\\_sciences/areas](http://www.onu.edu/academics/college_of_arts_sciences/areas))
- The 18<sup>th</sup> International Botanical Congress, Nomenclature Section and meeting of the Council of the International Association of Plant Taxonomy, Melbourne, Australia, 18-24 July 2011.
- The 4<sup>th</sup> Global Botanic Gardens Congress to discuss achievements in relation to the Global Strategy for Plant Conservation (GSPC) and to consolidate ideas on the way, at the National Botanic Gardens of Ireland in Dublin, Ireland, 14 to 18 June 2010.
- Science and development of government policy post-Global Strategy for Plant Conservation: lessons for the future in Jodrell, Royal Botanic Gardens, Kew; UK, 21 to 22 June 2010.
- Regional Workshop on vegetation and Climate Change in Eastern Africa (Ethiopia to Zimbabwe), in Nairobi, Kenya, 29 March to 4 April 2009.
- Workshop on Access and Benefit Sharing, held in Nairobi, Kenya, 9-12 March 09.
- Biodiversity Conference, Nairobi, Kenya, 10-12 September 2008.
- The Flora of Thailand. Meeting, held in Copenhagen, Denmark, 18-20 Aug. 2008.
- The 4<sup>th</sup> International Conference: The Comparative Biology of Monocotyledons and the 5<sup>th</sup> International Symposium: Grass Systematics and Evolution, held in Copenhagen, Denmark, 11-15 Aug. 2008.
- The 18<sup>th</sup> International AETFAT (Association pour l'Etude Taxonomique de la Flore d'Afrique Tropicale) Congress, held in Yaounde, Cameroun, 26 February–2 March 2007.
- Meeting on Environment and Biodiversity, held at the Center for Development Research (ZEF), University of Bonn, Germany, 14–16 March 2005.
- Workshop on Holistic Foundations for Assessment and Regulation of Genetic Engineering and Genetically Modified Organisms" in Tromsø, Norway, August - September 2005.
- International Conference on Biosafety, held in Muscat-Oman, 21–23 February 2005.

- The 7<sup>th</sup> Convention on Biological Diversity held in Kuala Lumpur Malaysia in 2003.
- The 17<sup>th</sup> International AETFAT Congress, held in Addis Ababa, Ethiopia, 21–26 September, 2003 (organizer and chairman).
- International Symposium, Plant Diversity and Complexity Patterns, held at The Royal Danish Academy of Sciences and Letters, Copenhagen, 25–28 May 2003.

## COUNTRIES OF (FIELDWORK) EXPERIENCE

In Africa: Cameroon, Ethiopia, Ghana, Kenya, Malawi, Tanzania, South Africa and Uganda;

In Asia: Sri Lanka

In Europe: Denmark, Norway and Sweden

In the USA: Florida and N. Carolina

## LANGUAGES

English: reading, writing and speaking – excellent

Amharic: reading, writing and speaking – excellent (National language)

Gurage: reading, writing and speaking – excellent (Local language)

French: reading - fair; writing and speaking – poor

Swedish: reading – good; writing and speaking – fair

## LIST OF PUBLICATIONS

### Books

1. Agegnehu Waasse, Kifle Dagne & **Sebsebe Demissew** (2012). Some Ethiopian species of *Chlorophytum* and *Anthericum* Karyotype Analysis. Lap Lambert Academic Publishing. Pp. 1-79.
2. Friis, I., **Sebsebe Demissew** & van Bruegel, P. (2010). Atlas of the Potential vegetation of Ethiopia. Royal Danish Academy of Sciences and Letters. *Det Kongelige Danske Videnskabernes Selskab. Biol. Skr.* 58: 1-307; 29 plates, 41 figures.
3. **Sebsebe Demissew** & Nordal, I. (2010). Aloes and other Lilies of Ethiopia and Eritrea. 2<sup>nd</sup> Edition. Shama Books, Addis Ababa. 351 pages.
4. Nigist Asfaw & **Sebsebe Demissew** (2009). Aromatic Plants of Ethiopia. Shama Books, Addis Ababa. 258 pages.
5. **Sebsebe Demissew**, Phillip Cribb & Finn Rasmussen (2004). Field Guide to the Ethiopian Orchids. Royal Botanic Gardens, Kew, Richmond Surrey, UK. 300 pages.
6. **Sebsebe Demissew**, Inger Nordal & Odd Stabbetorp (2003): Flowers of Ethiopia and Eritrea: aloes and other lilies. Shama Books, Addis Ababa. 227 pages.

### Chapter in Books

7. Gedion Asfaw, Kifle Lemma Woldesemayat & **Sebsebe Demissew** (2007). Ethiopia: Protecting Nature in a developing decentralized country. In: Environmental Governance and Decentralization, Albert Breton, Giorgio Brosio, Silvana Dalmazzone and Giovanna Garrone (eds). Pp: 111-139.
8. **Sebsebe Demissew** (2004). CYCLOCHEILACEAE. In: Kubitzki, K. (Ed.). The Families and Genera of Vascular Plants 8: 60-62. Springer-Verlag, Berlin, Heidelberg & New York.

## Scientific articles in Peer Reviewed Journals,

1. **Sebsebe Demissew** & Frris, I. (2013). *Commiphora oddurensis* Chiov. and *C. suffruticosa* Teshome (Burseraceae): taxonomy, distribution, ecology and conservation status. *Webbia* 68 (2): 133-145. DOI: 10.1080/00837792.2013.849956.
2. Javier A. Luna, **Sebsebe Demissew**, Iain Darbyshire & Mark A. Carine (2013). The significance of one versus two styles: the return of Seddera section Socotroseddera to Convolvulus. **Phytotaxa 156 (1): 47–53 (2013).** <http://dx.doi.org/10.11646/phytotaxa.156.1.3>
3. A. Muthama Muasya, Jan-Adriaan Viljoen, Meshack N. Dludlu and **Sebsebe Demissew** (2013.). Phylogenetic position of *Cyperus clandestinus* (Cypereae, Cyperaceae) clarified by morphological and molecular evidence. *Nordic Journal of Botany* 31: 001–009, 2013. doi: 10.1111/j.1756-1051.2012.01700.x,
4. Eshetu Fentaw, Kifle Dagne, Nina Rønsted, **Sebsebe Demissew** & Olwen M. Grace (2013). Karyotypes in Ethiopian Aloe species (Xanthorrhoeaceae:Asphodeloideae). *Kew Bull.* 68: 1 - 9 (2013). DOI 10.1007/S12225-013-9475-8.
5. Matheos Agize, **Sebsebe Demissew** & Zemedé Asfaw (2013). Ethnobotany of Medicinal Plants in Loma and Gena Bosa Districts (Woredas) of Dawro Zone, Southern Ethiopia. *Topclass Journal of Herbal Medicine* Vol. 2(9) pp. 194-212, 26 Sept., 2013. Available online at <http://www.topclassglobaljournals.org>
6. Matheos Agize, **Sebsebe Demissew** & Zemedé Asfaw (2013). Indigenous Knowledge On Management Of Home Gardens And Plants In Loma And Gena Bosa Districts (Weredas) Of Dawro Zone, Southern Ethiopia: Plant Biodiversity Conservation, Sustainable Utilization And Environmental Protection. *International Journal of Sciences: Basic and Applied Research (IJSBAR)*.....
7. Wendawek Abebe Mengesha, **Sebsebe Demissew**, M. F. Fay, R. J. Smith, I. Nordal & P. Wilkin (2013). Genetic diversity and population structure of Guinea yams and their wild relatives in South and South West Ethiopia as revealed by microsatellite markers. *Genet Resour Crop Evol* 60 (2): 529-541. DOI 10.1007/s10722-012-9856-0
8. Wendawek Abebe Mengesha, **Sebsebe Demissew**, M. F. Fay, R. J. Smith, I. Nordal & P. Wilkin (2013). Genetic diversity and species delimitation in the cultivated and wild Guinea yams (*Dioscorea* spp.) from Southwest Ethiopia as determined by AFLP (amplified fragment length polymorphism) markers *Genet Resour Crop Evol.* 60 (4): 1365–1375 DOI 10.1007/s10722-012-9925.
9. Roeland Kindt, Jens-Peter B. Lillesø, Paulo van Breugel, Michael Bingham, **Sebsebe Demissew**, Cornell Dudley, Ib Friis, Francis Gachathi, James Kalema, Frank Mbago, Heriel N. Moshi, John W. Mulumba, Mary Namaganda, Henry J. Ndangalasi, Christopher K. Ruffo, V\_edasteMinani, Ramni H. Jamnadass & Lars Graudal (2013). Correspondence in forest species composition between the Vegetation Map of Africa and higher resolution maps for seven African countries. *Applied Vegetation Science* Doi: 10.1111/avsc.12055 © 2013 International Association for Vegetation Science.
10. Solomon Benor, **Sebsebe Demissew**, Karl Hammer and Frank R. Blattner (2012). Genetic diversity and relationships in *Corchorus olitorius* (Malvaceae s.l.) inferred from molecular and morphological data. *Genet. Resour. Crop. Evol.* 59:1125-1146. DOI 10.1007/s10722-011-9748-8.
11. Ib Friis, Melanie Wilmot-dear, John R. Edmondson, Melaku wondafrash & **Sebsebe Demissew** (2012). The genus *Plumbago* (Plumbaginaceae) in Ethiopia and Eritrea. **Webbia** 67(2): 157-177.

12. Samuel Getachew, **Sebsebe Demissew** and Tadesse Woldemariam (2012). Allelopathic effects of the invasive *Prosopis juliflora* (Sw.) DC. on selected native plant species in Middle Awash, Southern Afar Rift of Ethiopia. Management of Biological Invasions (2012) Volume 3 (2): 105–114.
13. Talemos Seta, **Sebsebe Demissew** & Zemedé Asfaw (2012). Home gardens of Wolayta, Southern Ethiopia: An ethnobotanical profile. Academia Journal of Medicinal Plants 1(1): 14-30.
14. Solomon Benor, **Sebsebe Demissew**, Karl Hammer and Frank R. Blattner (2012). Genetic diversity and relationships in *Corchorus olitorius* (Malvaceae s.l.) inferred from molecular and morphological data. Genet. Resour. Crop. Evol. 59:1125-1146. DOI 10.1007/s10722-011-9748-8.
15. Tinsae Bahru, Zemedé Asfaw & Sebsebe Demissew (2012). Indigenous Knowledge on Plant Species of Material Culture (Construction, Traditional Arts & Handicrafts) used by the Afar & Oromo Nations in & Around the Awash National Park, Ethiopia. Global Journal of Human Social Science. Geography & Environmental GeoSciences. Volume 12 Issue 11 Version 1.0 Year 2012.  
Online ISSN: 2249-460x & Print ISSN: 0975-587X.
16. Lillesø, J. B., van Breugel, P., Kindt, R., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011). 61 ed. Forest & Landscape, University of Copenhagen. 155 p. (Working Papers; 61). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). Volume 1: The Atlas.
17. Kindt, R., van Breugel, P., Lillesø, J. B., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011) 62 ed. Forest & Landscape, University of Copenhagen. 232 p. (Working Papers; 62). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 2: Description and Tree Species Composition for Forest Potential Natural Vegetation types.
18. Kindt, R., van Breugel, P., Lillesø, J. B., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011) 63 ed. Forest & Landscape, University of Copenhagen. 176 p. (Working Paper; 63). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 3: Description and Tree Species Composition for Woodland and Wooded Grassland Potential Natural Vegetation Types.
19. Kindt, R., van Breugel, P., Lillesø, J. B., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011) 64 ed. Forest & Landscape, University of Copenhagen. 110 p. (Working Papers; 64). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 4: Description and Tree Species Composition for Bushland and Thicket Potential Natural Vegetation Types.
20. Kindt, R., Lillesø, J. B., van Breugel, P., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011) 65 ed. Forest & Landscape, University of Copenhagen. 131 p. (Working Papers; 65). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 5: Description and Tree Species Composition for Other Potential

Natural Vegetation Types (Vegetation Types other than Forests, Woodlands, Wooded Grasslands, Bushlands and Thickets).

21. van Breugel, P., Kindt, R., Lillesø, J. B., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Védaste, M., Jamnadass, R. & Graudal, L. O. V. (2011) 68 ed. Forest & Landscape, University of Copenhagen. 139 p. (Working Papers; 68). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 6: An Overview of The Methods and Material Used to Develop The Map.
22. van Breugel, P., Kindt, R., Lillesø, J. B., Bingham, M., **Demissew, S.**, Dudley, C., Friis, I., Gachathi, F., Kalema, J., Mbago, F., Minani, V., Moshi, H., Mulumba, J., Namaganda, M., Ndangalasi, H., Ruffo, C., Jamnadass, R. & Graudal, L. O. V. (2011) 69 ed. Forest & Landscape, University of Copenhagen. 63 p. (Working Papers; 69). Potential Natural Vegetation of Eastern Africa (Ethiopia, Kenya, Malawi, Rwanda, Tanzania, Uganda and Zambia). VOLUME 7: Projected Distributions of Potential Natural Vegetation Types and Two Important Agroforestry Species (*Prunus Africana* and *Warburgia Ugandensis*) for Six Possible Future Climates.
23. **Sebsebe Demissew**, Friis, I. Tesfaye Awas, Nordal, I., Wilkin, P., Weber, O. and Bachman, S. (2011). Four new species of *Aloe* (Aloaceae) from Ethiopia, with notes on the ethics of describing new taxa from foreign countries. *Kew Bull.* 66 (1): 111–121.
24. Hasan Yusuf, Anna C. Treydte, **Sebsebe Demissew** and Zerihun Woldu (2011). Assessment of woody species encroachment in the grasslands of Nechisar National Park, Ethiopia, *African Journal of Ecology*, DOI: 10.1111/j.1365-2028.2011.01280.
25. Tinsae Bahru, Zemede Asfaw and **Sebsebe Demissew** (2011). Variation of indigenous botanical knowledge versus social characteristics between the Afar and Oromo nations in and around the semi-arid Awash national park, Ethiopia. *Ethiop. J. Appl. Sci. Technol.* 2(1): 75 - 90 (2011).
26. Tamene Yohannes, Tesfaye Awas and **Sebsebe Demissew** (2011) Survey and documentation of the potential and actual invasive alien plant species and other biological threats to biodiversity in Awash National Park, Ethiopia. *Manag. Biol. Invasions* 2: 3-14.
27. **Sebsebe Demissew** (2011). How has Government policy post-*Global Strategy for Plant Conservation* impacted on science? The Ethiopian perspective. *Botanical Journal of the Linnean Society* 166:310–325. With 1 figure
28. Tesfaye Awas, Zemede Asfaw, Inger Nordal and **Sebsebe Demissew** (2010). Ethnobotany of Berta and Gumuz people in western Ethiopia. *Biodiversity* 11 (3&4): 45-53.
29. Solomon Benor, Blattner, F.R., **Sebsebe Demissew** & Hammer, K. (2010). Collection and ethnobotanical investigation of *Corchorus* species in Ethiopia: potential leafy vegetables for dry regions. *Genet Resour Crop Evol* 57: 293-306.
30. **Sebsebe Demissew** & Friis, I. (2009). The vegetation of Ethiopia. In: I. Hedberg, I. Friis and E. Person (eds.). *The Flora of Ethiopia and Eritrea*, Vol. 8: 27-32. Addis Ababa, Ethiopia and Uppsala, Sweden.
31. **Sebsebe Demissew** & R. Mill. (2009). Revision of the genus *Seddera* (Convolvulaceae). *Kew Bull.* 64 (2): 197 – 233.
32. Deroin, T. & **Sebsebe Demissew** (2009). The genus *Seddera* Hochst. (Convolvulaceae) in Madagascar. *Adansonia* sér. 3, 31 (1): 207 – 214.

33. Schmitt, C.B., Denich, M., **Sebsebe Demissew**, Friis, I. & Boehmer , H.J. (2009). Floristic diversity in fragmented Afromontane rainforests: Altitudinal variation and conservation importance. *Applied Vegetation Science* ]: 1–14, 2009.
34. Tesfaye Awas, Inger Nordal and **Sebsebe Demissew** (2009). Plant communities of the woodland vegetation of Benishangul Gumuz national regional state, western Ethiopia. *Ethiopian Journal of Natural Resources*. 2009. 11 (2): 169–193.
35. Feyera Senbeta, Tadesse Woldemariam, Manfred Denich, and **Sebsebe Demissew** (2009). The need for conservation of Afromontane rainforests with the occurrence of wild *Coffea arabica* populations in Ethiopia. In: **Gökçekuş, H., 2009 (Editor), Proceedings of the International Conference on Environment: Survival and Sustainability**. Nicosia (Lefkoşa), Turkish Republic of Northern Cyprus: Educational Foundation of Near East University. 10 volumes, LXXVI, 5498, XIV pages. Pp. 475-486. [ISBN: Volume 2: 978-975-8359-54-7].
36. Paul Wilkin, A. Muthama Muasya, Hannah Banks, Carol A. Furness, Kai Vollesen, Odile Weber and **Sebsebe Demissew** (2009). A New Species of Yam from Kenya, *Dioscorea kituiensis*: Pollen Morphology, Conservation Status, and Speciation. *Systematic Botany* (2009), 34(4): pp. 652–659.
37. Tesfaye H Bekalo, **Sebsebe D Woodmatas** & Zemedé A Woldemariam (2009). An ethnobotanical study of medicinal plants used by local people in the lowlands of Konta Special Woreda, southern nations, nationalities and peoples regional state, Ethiopia. *Journal of Ethnobiology and Ethnomedicine* 2009, **5**:26 doi:10.1186/1746-4269-5-26.
38. Getachew Tadesse, Tamirat Bekele & **Sebsebe Demissew** (2008). Dryland woody vegetation along an altitudinal gradient on the eastern escarpment of Welo, Ethiopia. **SINET: Ethiop. J. Sci.** **31**(1): 43-54.
39. Hermann, C., Cribb, **Sebsebe Demissew** (2007). The Orchid Flora of Benishangul-Gumuz (Western Ethiopia): An Ecological and Phenological Study. **SELBYANA** **28**(2): 123-136.
40. Feyera Senbeta, Manfred Denich, Hans Juergen Boehmer, Tadesse Woldemariam, Demel Teketay & **Sebsebe Demissew** (2007). Wild *Coffea arabica* L. in the Afromontane Rainforests of Ethiopia: distribution, Ecology and Conservation. **SINET: Ethiop. J. Sci.** **30**(1): 13-24.
41. Feyera Senbeta, Tadesse Woldemariam, **Sebsebe Demissew** & Manfred Denich, (2007). Floristic Diversity and Composition of Sheko Forest. **Ehiopian Journ. Of Biological Sciences** **6**(1): 11-42.
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### Mimeographed Thesis

151. **Sebsebe Demissew** (1980). "A study on the structure of a montane forest - The Menagesha State Forest". **M. Sc. Thesis, Addis Abeba University, Addis Abeba** (Mimeographed).

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### LANGUAGES

**French:** Spoken, read and written      **Spanish:** Spoken, read and written  
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### RESEARCH INTERESTS

My research topics cover various aspects of ecology, biology of invertebrates, particularly within ecology, ethology, conservation biology, taxonomy of insects, invasive species. I am particularly interested in the insect fauna (including social Hymenoptera) and I have been involved in numerous studies on biodiversity in Gabon.

### DEGREES

Ph.D., University Paris XIII Nord-Villetaneuse: "Ecological and behavioral impacts of invasive ant Wasmannia auropunctata on an arboreal ant Tetraponera aethiops in Gabon." Sustained June 29, 2010.

DEA Developmental Biology Entomology of agronomic interest option parasitic (University of Lomé (Togo)): Influence of ant Wasmannia auropunctata (Roger 1863) (Hymenoptera: Formicidae) on other species of ants in the Lope Reserve (center of Gabon). Sustained in 2004.

Master of Zoology and Animal Biology (University of Science and Technology of Cocody (Ivory Coast) obtained in 1997.

### CAREER

From 1998 to 2014. Teacher of Zoology and Animal Biology, ENEF, Gabon.

2002-2006: Research Officer of the General Director for the Environment

2003-2007: National Coordinator of the UNEP Project on Development of National Biosafety Framework.

From 2006 to 2014. Searcher Associate at the IRET, Gabon.

2005-2011: Contact Person FSC Gabon

2002-2014: Focal Point Cartagena Protocol on Biotechnology in Gabon

From 2011 to 2013. Deputy General Director of ENEF, Gabon

Since January 2012. Member of the Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services (IPBES).

## PUBLICATIONS

**Mikissa Jean B.**, Jeffery Kathryn, Fresneau Dominique & Mercier Jean L. 2013. Impact of an invasive alien ant, *Wasmannia auropunctata*, on a specialised plant-ant mutualism *Barteria fistulosa* and *Tetraponera aethiops*, in a Gabon forest. *Ecological Entomology* **38**: 580-584.

Foucaud J., Orivel J., Loiseau A., Delabie J.H.C., Jourdan H, I Konghouleux D., Vonshak M., Tindo M., Mercier J.L., Fresneau D., **Mikissa J.B.**, McGlynn T., Mikheyev S.A., Oettler J., Estoup A. 2009. Worldwide invasion by the little fire ant: routes of introduction and eco-evolutionary pathways. *Dig Evol Applicat*. DOI 10.1111/j. 1752-4571.2010.00119.x

**Mikissa J.-B.**, Delabie J. H. C., Mercier J.-L & Fresneau D. 2008. Preliminary assessment on the Interactions of *Wasmannia auropunctata* in native ant communities (Hymenoptera:Formicidae) of a Mosaic Gallery Forest/Savannah in Lope National Park, Gabon. *Sociobiology* **50 (1)**: 207-218.

Ndoutoume-Ndong A. & **B. Mikissa** 2007 Influence of the presence of the ant *Wasmannia auropunctata* (Roger 1863) (Hymenoptera: Formicidae).On other species of ants in the Lope Reserve (central Gabon). *Ann. Soc. Entomol. Fr.* **43(2)** : 155-158.

Basset Y., Mavoungou J.F., **Mikissa J.B.**, Missa O., Miller S. E., Kitching R.L. and Alonso A. 2004. Discriminatory power of different arthropod data sets for the biological monitoring of anthropogenic disturbance in tropical forests. *Biodiversity and Conservation* **13**: 709-732.

## COMMUNICATION

**Mikissa JB**, S. Devers, Errard C., Fresneau D., Mercier JL (2007). Study of the unicoloniality *Wasmannia auropunctata* (Hymenoptera, Formicidae) in Gabon: behavioral and chemical analyzes. Days of the GDR, October 25-26, Dijon, France.

## POSTER

Impact of *Wasmannia auropunctata* (Roger) on plant ant *Tetraponera aethiops* (Smith) and its host plant *Barteria fistulosa* (Passifloraceae)

**J.B. Mikissa, K. Jeffery, D. Fresneau, and J.L. Mercier**

## SCIENTIFIC ACTIVITIES

**June 2012:** Assessment of Biodiversity in southwestern Gabon: "Monitoring *Wasmannia auropunctata* and other ant communities in forest, savanna and forest-savanna mosaic between Mougangara and Loubomo".

**July-August 2001:** Consultant to the SI / MAB project on the assessment of impacts of oil exploitation on arthropods in the Gamba Complex.

**PERSONAL DATA**

Name: **Agnes Wangui N. Muthumbi**  
Nationality: Kenyan  
Date of birth: 12/04/1965  
Sex: Female  
Status: Married with two children  
Address: School of Biological Sciences, University of Nairobi, P.O. Box 30197-00100, Nairobi, KENYA.  
Telephone 020-2018206, 0722-249506, 020-4442316,  
E-mail: [amuthumbi@uonbi.ac.ke](mailto:amuthumbi@uonbi.ac.ke)  
Current Position: Senior Lecturer, School of Biological Sciences, University of Nairobi  
**Specialization:** Benthic Ecology / Aquatic Biology/ Environmental Expert Registered with National Environmental Management Authority (NEMA)

**EDUCATION BACKGROUND:**

**Ph.D (Biology), 1998 -Ghent University, Marine Biology Section.** Study subject was on Marine Biology and the Research Topic was “*Biodiversity of Nematodes in the Western Indian Ocean: Taxonomy and Assemblages*”

**MSc. (Nematology), 1994 - Ghent University, Belgium.** Reserch Topic: *Vertical migration of free-living nematodes in mangrove sediments in Gazi Bay, Kenya.*

**MSc. (Parasitology), 1993 - University of Nairobi, Kenya.** Research Topic: *The effect of Deltamethrin pour-on on the incidence of trypanosomiasis in cattle in Galana Ranch, Kenya.*

**BSc. (Science), 1989 - University of Nairobi, Kenya.** Dissertation Research Topic: *Early diagnosis of Schistosoma mansoni infection in mice using Biomphalaria pfeifferi antigens.*

**PROFFESIONAL SHORT TRAINING COURSES**

1. Environmental Impact Assessment & Environmental Audit (2007), Kenya Cleaner Production Centre, Nairobi, Kenya
2. Occupational Health and Safety Course (2006), Jomo Kenyatta University of Agriculture & Technology, Nairobi, Kenya
3. Conflict Management (2004), University of Toledo, Toledo, Ohio, USA
4. Basic Grant Writing (2003), University of Toledo, Toledo, Ohio, USA
5. Identification of plant parasitic nematodes (2003), University of California, Riverside California, USA
6. Identification of free-living soil nematodes (2003), University of California, Riverside, California, USA.

## **WORKING EXPERIENCE**

### **Working Experience**

**2006- Present:** Senior Lecturer, University of Nairobi, School of Biological Sciences, P.O. Box 30197- 00100 Nairobi, KENYA

**2000- 2006:** Lecturer, University of Nairobi, Department of Zoology, P.O. Box 30197, 00100 Nairobi, KENYA.

**1989- 2000:** Research Officer, Kenya Marine and Fisheries Research Institute, P. O. Box, 81651 Mombasa, KENYA

## **RESPONSIBILITIES**

2006-Present: Head, Marine & Freshwater Science, School of Biological Science (SBS), University of Nairobi

2006-Present: Member of SBS Post-graduate Student committee.

2006-2008: Coordination of Examinations in Animal Sciences in School of Biological Sciences

2005-2006: Coordinator Hydrobiology, Department of Zoology, University of Nairobi

## **CONSULTANCIES:**

Monitoring and Evaluation of Aquatic related Research Projects for Commission of Higher Education (CHE)-2007

Resource person for drafting of Marine Policy for Kenya

## **PROFESSIONAL APPOINTMENTS**

2011: External Examiner for Zoology in Faculty of Biological & Physical Sciences, Bondo University College.

2010: External Examination for University of Dar-Es-Salaam, Masters Program in Marine Science at Institute of Marine Science, Zanzibar.

2008- present: External Examiner for Department of Biological Science, Masinde Muliro University of Science & Technology

2008-present: External Examiner for Department of Zoology, Kenyatta University

## **POST-DOCTORAL RESEARCH EXPERIENCE**

**2003- 2004:** Post-doctorate Research Associate, Department of Earth, Ecological & Environmental Science, University of Toledo, 2801 W. Bancroft, Toledo, 43606 OH, USA.

**Research project:** *Impacts of genetically modified *Bacillus thuringiensis* (Bt) corn on non-target soil micro-arthropods and nematodes. Funded by US Environmental Protection Agency (EPA).*

**1999-2000:** Post-doctorate Research Associate, Marine Biology Section, Ghent University, Belgium.

**Research Project:** *Benthic Ecology in “Ocean Margin Carbon Exchange Project (OMEX II-II”). Funded by European Union.*

## **CURRENT RESEARCH AND RESEARCH GRANTS:**

### Mangrove ecosystem Research

1. Impacts of Open Access to mangrove Forest on Benthic Biodiversity. Funded by VLIR-UOS (2010-2013)
2. Marine Benthic Biodiversity: An Ecological Health Indicator. Funded by WIOMSA (2010-2011).
3. Integrated Salt-Artemia production and mariculture in a mangrove wetland at the Kenyan Coast. Research site Malindi, North Kenya Coast. Funded by Commission of Higher Education (2008-2010)
4. Mangrove benthic community interactions and ecosystem functioning recovery following mangrove forest rehabilitation: The research site is Gazi Bay in Kenya’s South Coast. VLIR-IUC-UoN project funded by the Flemish Government (Belgium) (2003-2009)

## **TEACHING AND STUDENT SUPERVISION**

### **Undergraduate courses**

- Fundamentals of Aquatic Ecology
- Developmental Biology
- Marine Biology
- Environmental Health and Ecotoxicology
- Marine Microbiology

### **Post-graduate courses**

- Systematics and Taxonomy of Aquatic Organisms
- Sustainable Utilization of Aquatic Resources and the Law of the Sea.

### **Student Supervision**

*Dalmas Oyugi.* PhD (Biology). University of Nairobi (On going). Ecological and Economic Impacts of Recently Introduced Common Carp (*Cyprinus Carpio*) (L. 1758) In Lake Naivasha, Kenya.

*Gideon Kivengea.* PhD (Biology). University of Nairobi (On going). Biology and fishery of *Octopus Species* exploited along the Kenyan Coast

Francis Mwonjoria PhD (Biology). University of Dar-Es-Salaam (On going). Aspects of the Biology, Ecology and Fishery of the Big Fin Squid, *Sepioteuthis lessoniana* (Lesson, 1830) in Kenya

*Amos Mutua*. PhD (Biology), University of Nairobi, (2010). “Assesment of benthic communities and their potential as bioindicators of mangrove ecosystem recovery in Gazi Bay, Kenya”.

*Bara Bara Mwaka*, MSc Zoology (Hydrobiology). University of Nairobi, (2008). Research in “The distribution and abundance of Mangrove crab *Scylla serrata* (Forskal 1755) in relation to environmental factors along the Southern Kenyan Coast”.

*Simiyu Musombi* BSc (Biology) (2007), University of Nairobi (2007). Research topic: “Intertidal Zonation of Meiofauna in a Tropical Mangrove Ecosystem in Gazi Bay, Kenya”.

*Dorcas Ngondi* BSc (Biology). University of Nairobi (2006). Research topic: “Macrofauna community structure in a recovering mangrove ecosystem in Gazi Bay, Kenya”.

*Lien Steenhuyse*. MSc Ghent University (2006), Macrofauna distribution in mangrove forests at different status.

*Ellen Pape* MSc Ghent University (2006), Distribution of *Terebraria palustris* in *Sonneratia alba* Mangrove forest in Gazi Bay, Kenya

*Mwonjoria Francis*, MSc in Zoology (Hydrobiology), University of Nairobi, (2006). “Assessment of mangrove ecosystem recovery using fish and benthic communities in Gazi Bay – Kenya”.

*Kimakwa Edward Wafula*, MSc Biology of Conservation, University of Nairobi, (2004). Research in “A study on fish community structure and distribution in the River Sabaki Estuary, Kenya”

*Masai Francis Mwenga*. MSc Zoology (Hydrobiology), University of Nairobi, 2002/2003. Research in “Distribution and abundance of benthic macroinvertebrates in Lake Naivasha, Kenya”.

*Gideon Mbithi Kivengea*. MSc Zoology (Hydrobiology), University of Nairobi 2000/2001. Research in “The distribution, abundance and exploitation of cray fish *Procambrus clarkii* in Lake Naivasha, Kenya”.

*Chihenyo Mvoyi*, MSc Zoology (Hydrobiology), University of Nairobi 2000/2001. Research in “Assessment of nutrient loading, eutrophication and plankton dynamics in two creeks (Mtwapa and Funzi Bay) in Kenya”.

*Lionel Dishon Murage*, MSc Zoology (Hydrobiology), University of Nairobi 2000/2001. Research in “The biology of the lemon fish (*Flectorninchus Flavomaculatus*) from the Kenyan coastal waters.

## **PEER-REVIEWED PUBLICATIONS**

**Muthumbi WN Agnes**, Ann Vanreusel and Magda Vincx (2011). Taxon related diversity patterns from the continental shelf to the slope: a case study on nematodes from the Western Indian Ocean (WIO). *Marine Ecology* 32 (2011) 453–467

Vanreusel, Ann; Fonseca Gustavo, Danovaro Roberto, da Silva Maria Cristina, Esteves Andre M, Ferrero Tim, Gad Gunnar, Galtsova Valentina, Gambi Cristina, Genevois Veronica da Fonseca , Ingels Jeroen, Ingole Baban, Lampadariou Nikolaos, Merckx Bea, Miljutin Dmitry, Miljutina Maria, **Muthumbi Agnes**, Netto Sergio, Portnova Daria, Radziejewska Teresa), Raes Maarten, Tchesunov Alexei, Vanaverbeke Jan, Van Gaever Saskia, Venekey Virag, Bezerra Tania Nara, Flint Hannah, Copley John, Pape Ellen, Zeppilli Daniela, Martinez Pedro Arbizu, Galeron Joelle (2010). The contribution of deep-sea macrohabitat heterogeneity to global nematode diversity (2010). *Marine Ecology -an Evolutionary Perspective (Special Topics)* Pg 1-15

Soetaert Karline Franco Maria, Lampadariou Nikolaos, **Muthumbi Agnes**, Steyaert Maaike, Vandepitte Leen, vanden Berghe Edward, Vanaverbeke Jan (2009). Factors affecting nematode biomass, length and width from the shelf to the deep sea: *Marine Ecology-Progress Series* **Volume:** 392 **Pages:** 123-132

M De Troch, M. Raes, **A. Muthumbi**, H. Gheerardyn and A. Vanreusel (2008). Spatial diversity of nematode and copepod genera of the coral degradation zone along the Kenyan coast, including a test for the use of higher-taxon surrogacy. *African Journal of Marine Science* 30:25-33

Ellen Pape, **Agnes Muthumbi**, Chomba Peter Kamanu and Ann Vanreusel (2008). Size-dependent distribution and feeding habits of *Terebralia palustris* in mangrove habitats of Gazi Bay, Kenya. *Estuarine, Coastal and Shelf Science*, Volume 76, Issue 4, 1 March 2008, Pages 797-808.

Gustavo Fonseca, **Agnes W. Muthumbi** & Ann Vanreusel (2007). Species richness of the genus Molgolaimus (Nematoda) from local to ocean scale along continental slopes. *Marine Ecology* 28: 446–459

M. Raes, M. De Troch, S.G.M. Ndaro, **A. Muthumbi**, K. Guilini & A. Vanreusel (2007). The structuring role of microhabitat type in coral degradation zones: a case study with marine nematodes from Kenya and Zanzibar. *Coral Reef* 26: 113-126.

**Muthumbi Agnes** and Ann Vanreusel (2006). Order: Araeolaimida in Fresh Water Nematodes: *Ecology and Taxonomy* (eds). Abebe et al. eds (CAB).

**Muthumbi AW.**, A Vanreusel, K Soetaert, G. Duineveld and M. Vincx (2004). Meiofauna along the continental slope off the Kenyan coast on the Western Indian Ocean (WIO) with emphasis on nematode assemblages. *International Review Hydrobiologia* 89: 188-205.

Soetaert, K, **Muthumbi, A.** and C. Heip,. (2002). Size and shape of ocean margin nematodes: morphological diversity and depth-related patterns. *Mar. Ecol. Progr. Ser.* 242: 179-193.

Flach E, **Muthumbi A**, Heip C (2002). Meiofauna and Macrofauna community in relation to sediment composition at the Iberian margin compared to the Goban Spur (NE Atlantic). *Progr. Oceanogr* 52: 433-457.

**Muthumbi A.WN.** & M. Vincx (1999). Microlaimidae (Microlaimoidea: Nematoda) from the Indian Ocean: Description of nine new and known species. *Hydrobiologia* 397: 39-58.

**Muthumbi AW.** & M. Vincx (1998). Chromadoridae (Chromadorida: Nematoda) from the Indian Ocean: difficulties in morphological identification of *Actinonema Cobb*, 1920 and *Rhips Cobb*, 1920. *Hydrobiologia* 364: 155-167.

**Muthumbi A.WN.** & M. Vincx (1998). Chromadoridae (Chromadorida: Nematoda) from the Indian Ocean: description of new and known species of the family Chromadoridae. *Hydrobiologia* 364: 119-153.

**Muthumbi AW.** , K. Soetaert & M. Vincx 1997. Deep-sea nematodes from the Indian Ocean: new and known species of the family Comesomatidae. *Hydrobiologia* 346: 25-57.

**Muthumbi AW.** & M. Vincx 1997. *Acantholaimus* (Chromadoridae: nematoda) from the Indian Ocean: description of seven species. *Hydrobiologia* 346: 59-76.

**Muthumbi A.** & M. Vincx 1996. Nematodes from the Indian Ocean: description of six new and species of the genus *Molgolaimus* Ditlevseni, 1921. *Bulletin of the Royal Belgian Institute of Natural History, Biology* 66: 17-28.

**Muthumbi AW.**, D. Verschelde & M. Vincx 1995. New Desmodoridae (Nematoda: Desmodoroidea): three new species from the *Ceriops* mangrove sediments (Kenya) and one related species from the North Sea. *Cah. Biol. Mar.* 36: 181-195.

Verschelde D. **A. Muthumbi** & M. Vincx (1995). *Papillonema danieli* gen. et sp. n. and *Papillonema clavatum* (Gerlach, 1957) comb. n. (Nematoda, Desmodoroidea) from the *Ceriops* mangrove sediments of Gazi bay, Kenya. *Hydrobiologia* 316: 225-237.

## **WORKSHOPS AND CONFERENCES**

IPBES workshop on “Developing potential work program elements for the Intergovernmental Science Policy Platform on Biodiversity and Ecosystem Services (IPBES). 31 Jan-2 Feb 2012, Annapolis, Maryland, USA

Planet Under Pressure Conference focusing on solutions to the global sustainability challenge. London, March 25<sup>th</sup> to 31<sup>st</sup> 2012

### **Oral presentations:**

**Muthumbi AWN**, A. Mutua, A. Vanreusel, V. Wangondu. Meiofauna and nematodes as Bio-indicators of environment status. Second Symposium of Nematodes as Bioindicators Ghent, Belgium 4-6 July, 2012

**Muthumbi AWN**, A. Vanreusel and M. Vincx (2011). Taxon related diversity patterns from the continental shelf to the slope: a case study on nematodes from the Western Indian Ocean (WIO). In World Conference on Marine Biodiversity (WCMB), Aberdeen, UK, 26 – 30 September 2011

**Muthumbi A**, Joseph Wakibia, Betty Nyonje and Jacob Ochiewo (2010). Integrated Salt-Artemia Production And Mariculture In A Mangrove Wetland At The Kenya Coast Commission of Higher Education-Research Dissemination Workshop at Mombasa Beach Hotel (20th – 24th June, 2010).

**Muthumbi A**, Mutua A, Ntiba MJ, Vanreusel A. (2009). Assessment of Mangrove Ecosystem Recovery Using Benthic Fauna. Sixth WIOMSA Symposium, St Denis, la Reunion, 24-29 August 2009 (Oral)

Mutua K. Amos, **A. Muthumbi**, MJ. Ntiba, Ann Vanreusel (2009). Meiofaunal recruitment in response to different food type additions to azoic sediments in a tropical mangrove: A field experiment. Sixth WIOMSA Symposium, St Denis, la Reunion, 24-29 August 2009 (Oral)

**Muthumbi A**, Mutua K. Amos, MJ. Ntiba, Ann Vanreusel(2009). The Nematofauna of a restored Kenyan mangrove ecosystem: Spatio-Temporal variation. Sixth WIOMSA Symposium, St Denis, la Reunion, 24-29 August 2009 (Oral)

Mutua K. Amos, **A. Muthumbi**, MJ. Ntiba, Ngondi, D and Ann Vanreusel (2009). Evidence of slow restoration of mangrove associated Macro-endofauna after restoration of *Rhizophora mucronata* mangrove in Gazi bay, Kenya. Sixth WIOMSA Symposium, St Denis, la Reunion, 24-29 August 2009 (Poster)

Mutua K. Amos, **A. Muthumbi**, MJ. Ntiba, Ann Vanreusel (2009). Trends in Meiobenthic colonisation as an indicator of recovery of the benthic ecosystem in reforested *Rhizophora mucronata* mangroves in Gazi Bay, Kenya. Sixth WIOMSA Symposium, St Denis, la Reunion, 24-29 August 2009 (Poster)

**Muthumbi A**, Musombi E and Mutua A (2007). Meiofauna Zonation In Mangrove Ecosystem, Gazi Bay, Kenya. 5th WIOMSA Symposium, 22-26 October, 2007 in Durban, SA (Oral & Poster)

**Muthumbi Agnes** and Ann Vanreusel. Nematode Species richness: patterns in the deep sea. In Integrating biodiversity science and human well-being. Oaxaca, Mexico, 9-12 Novemver, 2005.

**Muthumbi Agnes**, Mutua Amos and Francis Mwonjoria. Biodiversity Research in Kenya. In Integrating biodiversity science and human well-being. Oaxaca, Mexico, 9-12 Novemver, 2005. (Poster)

**Muthumbi Agnes**. Status of Benthic Taxonomy in Kenya. In Marine Data Base and Taxonomy Workshop, Merica Hotel Nakuru, Kenya (March 2005).

**Agnes Muthumbi**, Ann Vanreusel, Francis Mwonjoria. How variable are meiofauna communities in different mangrove forests? In Twelfth International Meiofauna Conference, Ravenna, Italy (July, 2004)

Maarten Raes, Wilfrida Decraemer, **Agnes Muthumbi**, Jacques Vanfleteren and Ann Vanreusel. Worms on Corals: Ecology, Biogeography and Phylogeny Combined. In Twelfth International Meiofauna Conference, Ravenna, Italy (July, 2004).

Flach Elsiner, **Agnes Muthumbi** Carlo Heip. Meiofauna and Macrofauna community in relation to sediment composition at the Iberian margin compared to the Goban Spur

## **Curriculum Vitae: Muthumbi Agnes.W. N, Ph.D.**

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(NE Atlantic). In Omex II-II Final Workshop (May, 2000). The carbon cycle in the Iberian Margin, Liege, Belgium.

**Muthumbi Agnes** and Magda Vincx (July, 1998). Nematode assemblages in the Indian Ocean. Tenth Meiofauna Conference, Plymouth UK (July, 1998)

**Muthumbi Agnes** Nematode community structure along the continental slope off the Kenyan Coast, (WIO). In Second WIOMSA Scientific Meeting in Dar Es Saalam, October, 2001 (Poster)

**Muthumbi Agnes** and Magda Vincx (July, 1998). Some difficulties in morphological identifications of *Actinonema* Cobb, 1920 and *Rhips* Cobb, 1920, *Dorylaimopsis* Ditlevsen, 1918. In Tenth Meiofauna Conference, Plymouth UK (July, 1998) (Poster)

**Muthumbi Agnes**, Yvette M. Vermeulen and Magda Vincx (July, 1995). Response to tidal dessication of free-living marine nematodes in tropical sediments. In Ninth International Meiofauna Conference (NIMCO), Perpignan, France (July, 1995) (Poster)

Vermeulen M. Yvette, **Muthumbi Agnes** and Magda Vincx (July, 1995). Vertical migration patterns of an intertidal meiofauna community in the *Ceriops* mangrove sediments (Gazi bay, Kenya). In Ninth International Meiofauna Conference (NIMCO), Perpignan, France (July, 1995). (Poster)

## **Gideon H.N. Nyamasyo (Short C.V. June 2014)**

**Present Address:** University of Nairobi, School of Biological Sciences, P.O. Box 30197-00100, Nairobi

**Contacts:** Office Tel (020) 444 2316  
Email:  
Personal Tel: 0722 874 591  
Email: [gnyamasyo@gmail.com](mailto:gnyamasyo@gmail.com) or [gnyamasyo@uonbi.ac.ke](mailto:gnyamasyo@uonbi.ac.ke)

**Date and Place of Birth :** 17<sup>th</sup> June 1950, Mukaa District, Makueni County, Kenya.

**Qualifications:** PhD (1988 in Zoology) MSc (1979 in Agricultural Entomology), BSc (1975, in Zoology)

**Professional Experience:** 2012: Associate Professor in Biology; 2002 – 2012: Senior Lecturer in Zoology; 1988-2002: Lecturer in Zoology; 1983-1986: Tutorial Fellow; 1979 – 1983: Graduate Research Trainee (ICIPE Research Centre); 1975 – 1979: Agricultural Research Officer (Ministry of Agriculture, Kenya).

**Research and Publications:** Major research areas include: -

- (i) Behaviour of the Weaver Birds
- (ii) Use of insecticides to control cotton pests
- (iii) The ecology of grasslands termites and their predation by ants
- (iv) The use of entomopathogenic fungi and nematodes to manage the sweet potato weevils
- (v) The impact of pollinators in the production of sunflower seeds
- (vi) The below ground macrofauna ecology – termites, soil mites and collembolans
- (vii) The management of land degradation in the ASAL
- (viii) The management of pollinators through an ecosystem approach
- (ix) The ecology and sustainable use of dryland biodiversity – the quails, guinea, fowls, porcupines, pancake tortoises, acacia trees and birds
- (x) Integrated pest management in beans, maize and fruit trees.

## **Involvement in Multilateral Environmental Agreements at National and International Levels**

(1994 – 2000) Member of the Inter-Ministerial Committee on Environment (IMCE) – Biodiversity Sub-Committee; (1998 – 2000) Chairman of the Biodiversity Sub-Committee; Member of the Kenyan Delegation to CBD – COP 4, Bratislava, Slovakia (1999), CBD-COP5 (2000), Nairobi Kenya; UNCCD-COP 7 (2005), Nairobi, Kenya; 3<sup>rd</sup> Meeting of Parties to the Cartagena Protocol (COP-MOP3), Curitiba Brazil (2006), 12<sup>th</sup>

COP – UNFCCC (2006) Nairobi, Kenya; 14<sup>th</sup> Session of SBSTTA – CBD (2010) Nairobi, Kenya.

### **Involvement in Global Environmental Facility (GEF) and other Donors/Funding Agencies**

Member of the National Steering Committee for the GEF-SGP Kenya; (The National GEF Committee at NEMA; head of macrofauna group in the Below ground biodiversity project; Principal implementer in the Makueni Land Degradation Project, Member of the Technical Advisory Committee for the Global Pollinators Conservation Project; Principal Investigator in the Rockefeller funded sweet potato weevil project and the RPSUD-funded Sunflower Pollination Project; Facilitator for the 9<sup>th</sup> and 10<sup>th</sup> GEF-SGP Stakeholders training workshops in 2003.

### **Students Supervision and Scientific Paper Publications**

6<sup>th</sup> PhDs, 20 MScs, and several BSc research students, 15 publications in refereed journals; 3 Books, 8 UN-NEMA reports, 2 theses and several unpublished reports.

### **Involvement in Pollination knowledge, Science and Practice**

Learned bee keeping from grandfather mid 1950's; was attacked by a swarm of bees leaving me unconscious. I keep several beehives to date. I train young people in bee ecology and recently in pollination science. (2004 – 2006) received grant from the RPSUD and implemented a pollinators' assessment and conservation project. Now a member of the technical Advisory Committee for the Global Pollinators Conservation Project (funded by the GEF) (2010); drafted the National Pollinators Conservation and Pollination Policy Framework. I have supervised 1 Ph

- 11.1 Nov 7<sup>th</sup> 2013: Stakeholders meeting to validate the conceptual design of integrated information management system for MEA's (i.e. Multilateral Environmental Agreements) at Utalii Hotel, Nairobi, Organized by the NEMA.

- 11.2 October 29<sup>th</sup> 2013: Stakeholders meeting in the National Resources Development and Management Draft Bill [Organized by Association of Professional Societies in East Africa (APSEA)] at Sarova Panafric Hotel.
- 11.3 July 1<sup>st</sup> 2013: Inception workshop for the review and update of the National Biodiversity Strategy and Action Plan (NBSAP). Organized by the NEMA.
- 11.4 February 13<sup>th</sup> – 17<sup>th</sup> 2013 – Meeting to edit and format the draft Prior Informal Consent (PIC) with Mutually Agreed terms (MAT) and Material Transfer Agreement (MTA) guidelines. Milimani Guest House, Nakuru.
- 11.5 June 6<sup>th</sup> 2013: Compilation of Kenya's Natural Capital Stakeholders Engagement and Validation Workshop. Organized by the Ministry of Environment and Natural Resources, Safari Park Hotel, Nairobi.
- 11.6 24<sup>th</sup> June 2012: Stakeholders consultation for integrating gender into the climate change bill, Silver Spring Hotel [Organized by the institute of Environment and Water Management (IEWM) and the Kenya Climate Change Working Group (KCCWG)].
- 11.7 21<sup>st</sup> – 22<sup>nd</sup> June 2012: National Carbon accounting System launch workshop. The Hilton Hotel, Kenya.
- 11.8 12<sup>th</sup> – 16<sup>th</sup> June 2012: National Workshop to finalize the legal instruments for facilitating bioprospecting in the country
  - (a) PIC – Prior Informed Consent procedures
  - (b) MAT – Mutually Agreed Terms
  - (c) MTA – Material Transfer Agreements
- 11.9 26<sup>th</sup> – 29<sup>th</sup> March 2012: retreat Workshop to develop Prior Informed Consent (PIC) with Mutually Agreed Terms (MAT) and Material Transfer Agreement, Naivasha, Kenya.

## **CURRICULUM VITAE: STELLA WATTIMAH SIMIYU (Ms.)**

### **BIODIVERSITY EXPERT**

**Nationality :** Kenyan

**Address :**

**Marital Status :** Married

P.o. Box 45166

**Date of Birth :** 15.4.1964

Nairobi 00100

**Place of Birth :** Bungoma

Tel : 254 721 364 289

**Personal Email:** [Stella.wattimah@gmail.com](mailto:Stella.wattimah@gmail.com)

### **SUMMARY**

I have worked in various positions at national, regional and international level in biodiversity related positions. I have played various roles as team member and leader; been involved in research; project formulation, management and evaluation as well as resource mobilization, capacity building and networking. My career has transitioned from active research to project management and finally biodiversity policy and implementation.

Most recently I worked with the Ministry of Environment, providing technical support to a wide range of state and non state actors to deliver the natural capital project of Kenya whose focus is to document the natural wealth of Kenya and provide a baseline for policy planning, development of the National Biodiversity Strategy and Action Plan, elaboration of research priorities and conservation action as well basis for natural capital accounting.

Previously I worked at global level within the context of the Convention on Biological Diversity to implement the Global Strategy for Plant Conservation 2002-2010. This strategy was implemented by a wide range of IGOs, UN agencies, State and Non State Actors. One of my responsibilities was to support governments and partners in policy implementation, capacity building, networking, monitoring and in depth review. One of my key roles was the support to Global Partnership for Plant Conservation, which became the main vehicle for enhancing implementation, resource mobilization, reporting and publicity for plant conservation globally.

I have experience in organizing and facilitating capacity building, project formulation and project implementation workshops. I have been responsible for resource mobilization, project management and people development at national, and regional level. This included three East African regional projects in biodiversity informatics, medicinal plants and traditional medicine and building capacity for plant conservation.

I have passion for Africa and its transformation to enable our people and communities sustainably use and conserve our natural capital. I believe that

empowered people practising value based leadership are the key to transformed organizations and hence my passion for capacity building and institutional strengthening. I have been involved in mobilizing resources and supporting partnerships at national, regional and international level can mobilize and support a large network.

Below is a summary of my experience and other relevant information.

**Recent Position: Feb 2012 - April 2014:** Technical Advisor – Ministry of Environment and Mineral Resources, Kenya:

**Role** – To support the compilation of the Natural Capital of Kenya including the Biodiversity Atlas of Kenya and provide support on biodiversity related matters. Other duties have included preparations for Kenya's participation at the eleventh Conference of the parties to the UN Convention on Biological Diversity, (CBD COP 11); Preparation of the Kenya's Bid to host the global secretariat for Intergovernmental Science-Policy Platform for Biodiversity and Ecosystem Services (IPBES); organisation and hosting the African Preparatory Meeting for CBD COP 11 in Nairobi; input into fourteenth African Ministerial Conference on Environment (AMCEN) and presentation of a proposal to establish an African Group of Negotiators on Biodiversity in liaison with the African Union Commission (AUC); member of Kenyan delegation to IPBES Panama Meeting (April 2012), Rio+20 Conference (June 2012) and AMCEN (September 2012) and CBD COP 11 (October 2012) among others.

## PREVIOUS EXPERIENCE

Implementation of the Convention on Biological Diversity (CBD); biodiversity conservation and sustainable use, Global Strategy for Plant Conservation, Biodiversity Informatics, Capacity building, policy development and implementation, institutional strengthening, resource mobilization and M&E.

**2011-2012-** Consultant to the EAC Lake Victoria Basin Commission to develop a regional project proposal to the JRS Biodiversity Foundation on establishing a web based portal on the Lake Victoria Fish Biodiversity, bringing together a wide range of Government, Research, and NSA partners.

**2010 – 2011** – Support to the National Council of Science and Technology in Kenya to develop the Kenya National Bioscience Policy and Bill.

**2009 – 2011: Botanic Gardens Conservation International- Develop a regional centre of Excellence in Biodiversity Informatics in East Africa, funded by the JRS Foundation to enable national and regional biodiversity institutions in East Africa, National Councils for Science and Technology, relevant ministries and partners to consolidate efforts at regional level to develop infrastructure, technical and technological capacity and capability to manage and disseminate biodiversity information in online and accessible formats and platforms for conservation, use, planning and development.**

**2003 – 2010: Consultant/Programme Officer, Botanic Gardens Conservation International, Seconded to the Secretariat of the Convention on Biological Diversity as Programme Officer, Global Strategy for Plant Conservation:**

- Provided technical support for the CBD secretariat as programme officer for the GSPC from 2003 to 2010; including preparation of meetings and technical documents on the progress of the implementation of the Strategy globally for the UN Convention on Biological Diversity (CBD) Conference of the Parties Meetings (COP) 6 (Netherlands), 7 (Malaysia), 8 (Brazil), 9 (Germany), 10 (Japan) and UN CBD Subsidiary Body for Scientific, Technical and Technological Matters (SBSTTA) 8 (Canada), 9 (Thailand), 10 (Canada), 12 (France) and 14 (Kenya).
- Facilitated the in depth review of the Global Strategy for Plant Conservation for the Convention on Biological Diversity (CBD), twelfth meeting of the Subsidiary Body for Scientific, Technical and Technological Matters (SBSTTA 12) and the ninth Conference of the Parties of the CBD (COP 9), in May 2008.
- Created awareness and understanding of the Strategy through various keynote addresses and plenary presentations to various global and regional biodiversity, conservation and botanical congresses and national meetings and workshops e.g. Japan, Spain, China, Montserrat, Mexico, Canada, UK, Belgium, Ireland, Abu Dhabi, South Africa, USA, Austria, Uganda, among others.
- Supported the development of national and regional Strategies and Responses to the Strategy including in Seychelles, Madagascar, China, Japan, Caribbean Region, Ireland, Germany and Europe (through the Planta Europa network).
- Organised regional capacity building workshops to support the implementation of the Strategy in Africa, Caribbean Region, Japan, Seychelles, the Americas, and Spain.
- Supported the development and launch of the Global Partnership for Plant Conservation bringing together major partners and stakeholders such as partners such as FAO, ICRAF, BGCI, IUCN, Bioversity International, Plantlife International, GBIF, Royal Botanic Gardens Kew, among others.
- Produced the Plant Conservation Report as a communication tool on the progress in the implementation of the Strategy and the achievement of its sixteen outcome targets in 2008, published by the CBD Secretariat in collaboration with BGCI and translated into Spanish and French.
- Undertook a consultation process and facilitated meetings to develop a consolidated update of the Strategy beyond 2010, whose proposal was reviewed by UN CBD SBSTTA 14 Meeting (May, Kenya) and then adopted at UN CBD COP 10 Meeting (Nagoya Japan)

**2007-2010: BGCI and Project Leader: JRS Biodiversity Foundation supported East African Regional Project on the implementation of the Global Strategy for Plant Conservation. (additional support raised from Mitsubishi Foundation, IUCN Netherlands, IUCN SSC, GBIF and Alan and Nesta Foundation).**

- Oversaw the implementation of the regional BGCI JRS Project to implement the Global Strategy for Plant Conservation in East Africa, including hosting five regional workshops to build capacity; developing a regional list of East African Plants as master list for databases in the region, undertaking red list assessments of endemic plants in the region as well as Conservation assessments and management planning for medicinal plants; working with Partners from Costa Rica (INBIO); India (FRLHT), Denmark (GBIF); UK (IUCN) and raising additional co finance to complete the project.
- Raised additional funding to support the JRS Project and further establish the National Museums of Kenya as a centre of excellence in biodiversity informatics.

**2008 -2009: Consultant, BioNET International to develop an East African Regional project proposal and develop project on mobilizing taxonomic information for end users, funded by SWEDBIO, Sweden.**

Worked with the East African partners of BioNET International to mobilize resources, develop and set up the UVIMA project on mobilizing taxonomic information on pests, pollinators and invasive alien species to develop tools and products relevant key stakeholders for conservation and development. Activities included concept development, organisation and hosting of the project development workshop, development of main project proposal, set up of project implementation structures and building capacity for project team.

**2000- 2002: Project leader:** In liaison with Maseno University, developed the Community Based Conservation of Medicinal Plants Project, a national project funded by the International Development Research Centre, IDRC, Canada. The project focused on community based research and capacity building for conservation, sustainable and safe use of heavily utilised medicinal plants.

**1999-2004: Regional Coordinator:** Coordinated the development of the GEF PDF B proposal on the Botanical and Zoological Networks for Eastern Africa. The project focuses on developing the national and regional institutional capacity to respond to the GTI Programme of Work.

**1998- 2002: Coordinator** -Established the IUCN SSC Eastern Africa Plant Specialist Group and developed a database on experts and expertise as well bibliographic resources, with funding solicited from UNESCO.

**1996-1999: Project Leader -NMK- Darwin Plant Conservation Techniques Course, East Africa,** - Developed and mobilized resources for an East African based course in plant conservation. Funding obtained from local and international agencies and in collaboration with the Royal Botanic Gardens, Kew, attracted core funding from the Darwin Initiative in the UK, which enabled the project to run for three years. This funding covered total participant and course costs for 45 professionals from national institutions in East Africa that are involved in plant conservation. Additional specialised workshops were held for more senior personnel in Seed Conservation and Botanic Gardens.

Partner institutions included the national institutions involved in forestry, wildlife management and plant research and conservation. Key international partners included The Darwin Initiative (UK), British Council, DFID (UK), IUCN, WWF, ICRAF, The Netherlands Embassy and AWF,

**1996-1999: Integrated Species Conservation Projects Co-ordinator, NMK Plant Conservation Programme:** Developed target priority species conservation projects based on thematic needs with core DFID support and solicited additional support to enhance the outputs of these projects. Six staff members co-ordinated with focus on orchids, African violets, medicinal plants, tree species, cycads and succulents as target groups. Additional support attracted from WCMC, IUCN-TRAFFIC, CITES-Germany, British Airways assisting conservation and the Linnaean Society, London. An ACCESS based query database for Kenyan plant species as a reference for species distributions and status developed as part of this programme. Through this projects the staff contributed to the IUCN-SSC Orchid and Succulents Action Plans, The World Cycad Congress, The WCMC Threatened Tree Species Project, The Medicinal and Aromatic Plants Conference, UK and the IOS Congress for the Study of Succulent Plants, The African Workshop on Threatened Tree Species among others.(UK - Kenya Bilateral support)

**1992-1996: Conservation officer and Counterpart Project officer, DFID-NMK Plant Conservation and Propagation Unit.** Facilitated the development of a plant conservation programme for the National Museums of Kenya (NMK). Noteworthy achievements include, together with fellow staff, establishing within NMK a functional plant conservation programme, of both local and international repute. Apart from project management and monitoring activities, themes and projects with both short and long term focus were designed and developed including that of the Management Plan for the Nairobi Botanic Garden, NMK. Professional visits were made to various local and international institutions and partnerships strengthened. Some key visits made include those to the Royal Botanic Gardens, Kew and Edinburgh, Botanic Gardens Conservation International, The Natural History Museum, London, Oxford Forestry Institute, WCMC- Cambridge, Kirstenbosch Botanic Gardens and Compton Herbarium, South Africa, The Pretoria Herbarium, Missouri Botanic Gardens, and Kenyan, Ugandan and Tanzanian Botanic Gardens, Herbaria and Forestry Research Institutes.

**1987-1992: Research Scientist, Plant Taxonomy:** Curated plant collections in the herbarium including dicots, pteridophytes and algae. Main research interest was focused on the Asteraceae with a special emphasis on the large genus Vernonia. Undertook research using palynology, plant anatomy and scanning electron microscopy.

## OTHER CONSULTANCIES

**June 2006: Consultant, International Development Research Centre (IDRC)**

**Canada.** Developed a Strategy Background Paper on the East African initiative on Traditional Medicine and Medicinal Plants for the International Development Research Centre, East and Southern Africa Regional Office, Nairobi, Kenya.

**2002 – 2007: Project Leader for the Network for Medicinal Plants and Traditional Medicine for East Africa” funded by the International Development**

**Research Centre, Canada.** Developed, mobilized resources and implemented the regional project for East Africa. The network focused on three themes: Conservation and sustainable management of medicinal plants, improving safety and efficacy in use of the Traditional medicine, as well as developing the policy framework at national level. The project supported the development of a national policy on traditional medicine and medicinal plants in Kenya.

**May 2006: Consultant BioNET International. Strategic Review.**

Undertook a Strategic Review aimed at Renewing BioNET International – the Global Network for Taxonomy. Examined ways to renew BioNET so it can deliver its programme sustainably by responding in a timely and effective manner to emerging challenges and scenarios and recommended options and elements for BioNET’s strategic objectives 2006-10. These recommendations were incorporated into the BioNET Strategic Plan 2006 - 2010

**January 2006: Consultant Botanic Gardens Conservation International (BGCI).**

Undertook a preliminary strategic review of BGCI - Redefining the Role of Botanic Gardens Conservation International with a focus on BGCI and its role in poverty alleviation and sustainable development and Redefining the role of Botanic Gardens to present contextual relevance *vis a vis* 2010 biodiversity target and the Millennium Development Goals.

**2005: Lead Consultant for the Terminal Review of the UNDP/GEF Southern Africa Botanical Network (SABONET Project - nine year project in ten southern African Countries).**

Assessed the relevance, performance and success of the project using the GEF review criteria of implementation approach, country ownership and drivenness, stakeholder participation and public involvement, sustainability, replication approach, financial planning, cost-effectiveness, and monitoring and evaluation.

**2004: Member of the External Review Team for BioNET International, through IUCN Head Office, Gland, Switzerland, to review impact of SDC, Switzerland funding to BioNET, who were the main strategic partner for BioNET International.**

**2004: Consultant IISD - Expert Opinion:** Essay on Intellectual Property Rights, Environment, Trade, Sustainability and Livelihoods – The Local Agenda: for International Institute for Sustainable Development, IISD.

- 2003: Consultant International Development Research Centre**, (IDRC, Ottawa, Canada), undertook a global review and developed an issue paper on the conservation and sustainable use of medicinal plants.
- 2002: Consultant IDRC** - Undertook a review on the OAU DECADE on Medicinal Plants and traditional Medicine: needs and perspectives for the IDRC Regional Office for Southern and Eastern Africa
- 2000: Co evaluator - External Triennal Review of the National Botanical Institute - South Africa.** Reviewed the institutional, financial and scientific structure of the NBI's five herbaria and eight botanical gardens and recommended the framework for the next triennium (2001 – 2004).
- 1998: Co evaluator - Mid Term Review for the WWF-UNESCO People and Plants Programme in Kenya and Uganda.**
- 1996: Consultant for the Kenyan component of the IUCN-TRAFFIC Study on Trade in Medicinals Project in East and Southern Africa.**
- 1995: Taxonomic consultant.** Kenya Gums and Resins Production, Marketing and Conservation Project. Funded by the Mennonite Committee.
- 1992: Taxonomic Consultant.** -UNEP Kenya Country Study – Funded by UNEP.
- 1988: Taxonomic Consultant** -Biological Resources and Policy Analysis Study in Kenya, African Centre for Technology Studies and Ford Foundation.

#### **SOME OTHER KEY RELEVANT INTERNATIONAL CONTRIBUTIONS:**

- 2004-2006: Capacity Building-** With partners from Royal Botanic Gardens Kew and the Joint Nature Conservation Committee, UK; raised support to support to national and regional implementation of the Global Strategy for Plant Conservation – Regional Caribbean GSPC workshop (2006), National workshop in Seychelles (2004), and African Regional Training Workshop on the GSPC (2004).
- 2005 – 2010: Partnership Building** - Working together with various strategic Partners, established the Global Partnership for Plant Conservation and co-organised the 1st International Conference in October 2005, Glasnevin, Dublin Ireland.
- 2000 - 2005: Capacity Building** - Member of the Outreach and Capacity Building subcommittee of the Global Biodiversity Information Facility, with a focus on strengthening taxonomic information management in the African Region.
- 2001-2005: Project Development-** Regional coordinator for the development of the GEF proposal for the Botanical and Zoological Networks for Taxonomy in Eastern Africa.
- 2000 -2004: Networking** - National Co-ordinator for EAFRINET, an Eastern Africa Regional LOOP of BioNET International, the global taxonomy network

**2004 : Expert Opinion** - Made contribution to the development of the Access and Benefit Sharing Management Tool, through IISD supported by the Swiss Government as a member of the Advisory Committee.

## ACADEMIC AND PROFESSIONAL QUALIFICATIONS

- 2011 – CERTIFICATE – EUROPEAN UNION PROPOSAL AND GRANT WRITING, MONITORING AND EVALUATION. MDF- EASTERN AND SOUTHERN AFRICA
- 2008 – Certificate in Project Management, KPMG Training Solutions, Nairobi, Kenya.
- 2005 – Foundation Course in Change Management, Techniques for Change Ltd, Gatwick, UK.
- 2000 – 2004 Part Time - Ph.D project on the “Systematics and conservation of the genus *Saintpaulia* endemic to East Africa”. Registered at the Kenyatta University, Kenya, supported by the Centre for Tropical Biodiversity, Denmark; Department for International Development (DFID), UK and the Kenya Museum Society. (2000- final write up not completed due to inability to access research materials due to challenges Access and Benefit Sharing regulation changes).
- Sept 99- April 2000 Recent advances in molecular taxonomy and conservation genetics – attachment, Royal Botanic Gardens, Royal Botanic Gardens, Kew, UK.
- August 1998 – Recent Advances in Conservation Genetics - The Conservation and Research Centre, Smithsonian Institution, USA. Certificate.
- May 1997 – Recent Advances in Plant Ecology - Department of Biology, Imperial College of Science, Technology and Medicine, University of London, Silwood Park. Certificate.
- August 1996 – Molecular Systematics and Biogeography, University of Copenhagen. Denmark. Certificate
- May-August 1995 – Advanced Training Proramme on the Conservation of Biological Diversity - Consortium of the Field Museum, Chicago; Chicago Zoological Society and University of Illinois, USA. Certificate
- March 1995 – Enhancing Skills in Project Proposal Writing Skills and Fund Raising - Kenya Management Assistance Programme, Kenya. Certificate.
- September-November 1993 – Plant Conservation Techniques Course - Royal Botanic Gardens Kew. International Diploma.
- October 1990 – Koobi Fora Field School in Anthropology: Harvard University, Rutgers University and the National Museums of Kenya. Certificate.
- June, 1990 - Master of Science in Biology: Addis Ababa University, Ethiopia. Thesis entitled “A systematic study of the *Vernonia leopoldii* (Compositae)complex . GP 3.75
- November, 1986 - Bachelor of Education (Science), Kenyatta University, Kenya. - Botany , Zoology and Mathematics. Second Class Honours, Upper Division.

## KEY CONFERENCES

A sample of the conferences attended include:

Convener and facilitator:

- 2013 – Inception workshop for the review and update of the National Biodiversity Strategy and Action Plan. Ministry of Environment and Mineral Resources, Kenya, Nairobi June 2013.
- 2012 -Stakeholder consultation workshop on the Natural Capital and Biodiversity Atlas of Kenya, Ministry of Environment and Mineral Resources, Kenya. Nairobi,
- 2012 -African Negotiators Group on Biodiversity Meeting, hosted by Kenya, Ministry of Environment, September 2012.
- 2011 – African Regional Training workshop on the implementation of the Global Strategy for Plant Conservation, Johannesburg, April 2011.
- 2010 – CBD Liaison Group Meeting to draft the consolidated proposal for the update of the Global Strategy for Plant Conservation beyond 2010, London, UK.
- 2009 – BDNJ workshop on the Global Strategy for Plant Conservation, Tokyo Japan.
- 2009 – African Regional Workshop on the Global Strategy for Plant Conservation, Durban, South Africa.
- 2009 – CBD Liaison Group Meeting on the GSPC, Dublin, Ireland.
- 2007 - National Workshop on the GSPC, Madagascar.
- 2006 - Liaison Group Meeting on the Global Strategy for Plant Conservation, Ireland
- 2006 - National workshop on the development of the National Strategy for Plant Conservation in China, Beijing
- 2006 - National Workshop on the development of a Strategy on Plant Conservation, Cordoba, Spain

Keynote presenter:

- 2009 – Global Botanic Gardens Education Congress, Durban, November 2009.

- 2009 – Symposium on the Global Strategy for Plant Conservation and American Regional Workshop on the Strategy, Chicago, USA.
- 2009 – E-biosphere Congress on biodiversity informatics – London, UK.
- 2008 - Presentation on the GSPC and national implementation, Canadian GSPC Focal Point, Ontario.
- 2008 – Panelist Keynote presentations and workshop presentations at the IUCN Congress, Barcelona, Spain.
- 2007 - 3<sup>rd</sup> Global Botanic Gardens Congress – China. – Keynote Speaker.
- 2006 - International Conference on Biodiversity Data Management. Malaga, Spain.
- 2006 - Presentation to the East African Legislative Council on Medicinal Plants, Tanzania.
- 2006 – The GBIF Science Symposium & 200 The Bar Code of Life: southern Africa Regional meeting – Cape Town.
- 2006 – The JRS Foundation: Biodiversity needs for Africa: Cape Town.
- 2005 – The Global Partnership for Plant Conservation – Dublin, Ireland – Keynote speaker
- 2005 – ICRAF Review on medicinal plants, Kenya
- 2005 – Arabian Plants Specialist Group- Abu Dhabi, UAE - Keynote speaker
- 2004 – International Workshop on the ex situ conservation of wild plants – Cordoba, Spain – invited speaker.
- 2004 – The GBIF scientific symposium and OCB workshops Oaxaca, Mexico
- 2004 – The 2<sup>nd</sup> World Botanic Gardens Congress, Barcelona Spain –keynote speaker
- 2004 – The Planta Europa Conference, Barcelona, Spain – Invited Key note speaker
- 2003 - The CBD challenge in Botanic Gardens: African Botanic Gardens Congress, Durban , South Africa. 2002: The CBD challenge for botany: Smithsonian Botanical Symposium, Washington, DC
- 2002 – The XVII AETFAT Congress, Addis Ababa Ethiopia - three papers
- 2002 – The 1<sup>st</sup> African Botanical Gardens Congress – Invited Keynote speaker
- 2002 – The Global Taxonomy Workshop, Johannesburg, South Africa – Invited Keynote speaker

2001 – The Africa MAB Technical Workshop, UNESCO, Kenya.

2001 – The Smithsonian Botanical Symposium – Invited keynote speaker

2000 – The World Botanic Gardens Congress , Asheville USA.

2000 – The XVI AETFAT Congress, Brussels, Belgium.

2000 - The International Conference on African Traditional Medicine, their use and Conservation, ICRAF, Nairobi. Kenya

1993 - The International Conference on Plant Biodiversity in Southern Africa. Cape Town. South Africa.

1994 - The XIVth AETFAT Congress - Biodiversity of African Plants. Wageningen. The Netherlands.

1995 - The Sahara and Sahel Observatory/East African Plant Resources Study, IUCN - East Africa, Nairobi, Kenya.

1997 - The XVth AETFAT Congress – The Conservation and Utilization of African Plants, Harare, Zimbabwe

1998 – Keynote Speaker – The Botanic Gardens Conservation Congress, Cape Town, South Africa.

### SOME COMMITTEES

- IUCN Species Survival Commission – 2009 - 2012
- Advisory Committee – BioNET International – 2005- 2010
- Outreach and capacity Building sub-committee – Global Biodiversity Information Facility (GBIF) – 2000- 2008
- The IUCN SSC Plant Conservation Committee – 1999- 2008
- The Inter Ministerial Committee on Environment, Biodiversity Sub Committee - Kenya, 1999-2003
- The Inter- Institutional Task Force on Medicinal and Aromatic Plants, Kenya – 2001-2003
- The National ARocha Committee, Kenya – 2001- to date
- International Trustee – A Rocha International – A Christian conservation NGO 2004- 2010.

### PUBLICATIONS :

Key publications include:

- 2000-2010 – Over forty technical reports for consultancies, project outcomes, evaluations and information documents.

- 2003 – 2010 – All background documents for the GSPC for the CBD Meetings.
- Simiyu, S. and Harris, P. 2008. Caring for Creation – Part of our gospel calling? Grove Books Ltd. Ridley Hall Rd, Cambridge CB3 9HU.
- Simiyu, S. W. 2007. Expert Opinion: Intellectual Property Rights, the local Agenda. In Najam. E.; Halle, M and Melendez-Ortiz, R. Trade and Environment, A Resource Book. IISD. ISBN978-1-895536-99-7.
- Simiyu, S. W. 2006. The Word, Conservation and a Human Face. CRUX, a Journal of Regent College, Vancouver, Canada. Special Edition 2006.
- Simiyu, S. N.W. 1996. Plant Diversity Conservation in Kenya: The East African Herbarium Plant Conservation and Propagation Unit. Proceedings of the AETFAT Congress, Wageningen, The Netherlands.
- Simiyu, S. N.W. 1995. When not to translocate: The case of the African Violet, Tanzania. Reintroduction News, 11:13.
- Simiyu, S.N.W. 1994. The Plant Conservation Programme, National Museums of Kenya. Roots - A newsletter for African Botanic Gardens.
- Wattimah, S. N & Mesfin, T. 1992. The Systematic study of the *Vernonia leoplodii* Complex (Compositae). Nordic. J. Bot.
- Wattimah, S. N. 1992. Malphiigiaceae. In : Beentje, H.K. Kenya Trees, Shrubs and Lianas - A field Guide. Published by the National Museums of Kenya.

## REFEREES.

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# Curriculum vitae

## Ms Voahangy Raharimalala

Chief of Environmental Information System Unit  
Office National pour l'Environnement



Biologist, graduated in plant ecology

Assistant to the National Focal Point of the Clearinghouse mechanism on CBD and use the European Toolkit for the management of the CHM

Member of the CHM-IAC which works with the programm officer on CHM at the CBD secretariat

National authority Publishing for the ABS CHM

Member of the ABS CHM IAC which works with the programm officer on ABS CHM at the CBD secretariat on the development of the ABS CHM

Member of ABS National Committee for the implementation of the Nagoya Protocol in Madagascar

Member of National Committee on traditional knowledge on plant

Member of the specialist on plants of Madagascar group

Member of the national committee on CBD for the establishment of the 5th national report on CBD and the updating of the NBSAP

Member of Madagascar delegates during the COP 11 on CBD in Hyderabad

Coordinator of the project to atlas lemurs of Madagascar

Has expertise in project management, monitoring and assessment

### Office address

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Office National pour l'Environnement (ONE)

PO Box 822 – Avenue Rainilaiarivony, Antananarenina, Antananarivo

Madagascar

<http://www.pnae.mg> – <http://mg.chm-cbd.net/> - <http://www.atlaslemursmadagascar.net/>

### Study

Master degree in 1993 on Plant ecology from the faculty of Sciences, University of Antananarivo  
Contribution to the satudy of plants in Manongarivo special reserve (between 150 and 700 m altitude)

### Experiences

2003 – now   **Office National pour l'Environnement in Antananarivo**

*Chief of Environmental Information System Unit*

Environmental dashboard :

Working on environmental indicators as well as social and economiq indicators to show the status of the following components : biodiversity, soil and land cover, littoral, climate and climate change, urban environment, social and economical indicators

Provide the environmental status at national level and for the 22 regions of Madagascar

Activities on CBD and Biodiversity

Responsible of collecting data on Biodiversity for their assessment during the realization of evaluation of Impact Assessment and the monitoring of the impact of the investment

Managing the CHM/CDB and facilitating the involvment of stakeholders to the updating of the portal

National Authority Publishing for the ABS CHM and contributing to the pilot phase of the ABS CHM

Coordinator of the project to atlas lemurs of Madagascar : a data portal is developed and data is updated regularly

Safeguard Information System for REDD+ in Madagascar :

Member of the task group on SIS for REDD+ in Madagascar and contribute to the developement this system

1999 - 2003   **Office National pour l'Environnement in Mahajanga**

*Responsible of Monitoring, Assessment and Information System*

Responsible of mapping and doing spatial analysis of data

1998 – 1999	<b>Conservation International Mahajanga : Ankafantsika National Park</b> <i>Chief of monitoring, Assessment component for the Ankafantsika National Park</i>
1996 – 1998	<b>Ambato Boeni Regional Development Project</b> <i>Responsible of monitoring, assessment and information system of data and information on Ambato Boeni District</i> Data on social, economic, environmental aspects are managed
1993 – 1996	<b>Missouri Botanical Garden : Conspectus of Vascular endemic plants to Madagascar</b> <i>Technician Biologist</i> Identification of taxa from specimen in FOFIFA and PBZT herbaria Digitizing data from plant specimens and integrate them to the MBG plant database

#### **Professional publication (ONE)**

ONE, 2013, Tableau de Bord Environnemental Région Atsimo andrefana  
 ONE, 2012, Tableau de Bord Environnemental Région Analamanga  
 ONE, 2011, Tableau de Bord Environnemental Région Betsiboka  
 ONE, 2009, Tableau de Bord Environnemental Région Sofia  
 ONE, 2008, Profil Environnemental Région SAVA – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Profil Environnemental Région DIANA – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Profil Environnemental Région Sofia – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Profil Environnemental Région Menabe – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Profil Environnemental Région Androy – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Profil Environnemental Région Atsimo andrefana – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2008, Tableau de Bord Environnemental Région Vatovavy Fitovinany  
 ONE, 2008, Tableau de Bord Environnemental Région Atsimo andrefana  
 ONE, 2008, Tableau de Bord Environnemental Région Analanjirofo  
 ONE, 2008, Tableau de Bord Environnemental Région Atsinanana  
 ONE, 2008, Tableau de Bord Environnemental Région Alaotra Mangoro  
 ONE, 2007, Tableau de Bord Environnemental Région Itasy  
 ONE, 2007, Tableau de Bord Environnemental Région Bongolava  
 ONE, 2006, Profil Environnemental Région Alaotra Mangoro – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Amoron'i Mania – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Analanjirofo – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Atsinanana – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Atsimo atsinanana – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Vatovavy Fitovinany – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Ihorombe – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Anosy – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Profil Environnemental Région Matsiatra ambony – Analyse-diagnostic environnemental – enjeux environnementaux et indicateurs  
 ONE, 2006, Tableau de Bord Environnemental Région Melaky  
 ONE, 2006, Tableau de Bord Environnemental Région Ihorombe  
 ONE, 2006, Tableau de Bord Environnemental Région Haute Matsiatra  
 ONE, 2006, Tableau de Bord Environnemental Région Boeny  
 ONE, 2006, Tableau de Bord Environnemental Région Amoron'i Mania  
 ONE, 2005, Tableau de Bord Environnemental Région Vakinankaratra  
 ONE, 2005, Tableau de Bord Environnemental Région Anosy  
 ONE, 2005, Tableau de Bord Environnemental Région DIANA  
 ONE, 2003, Tableau de Bord Environnemental Région Menabe

**Contribution to publication**

MEEF, 2014, 5<sup>e</sup> Rapport National de la CDB

MEEF, 2012, Rapport sur l'état de l'Environnement de Madagascar

MEEF, 2009, 4<sup>e</sup> Rapport National de la CDB

MEEF, 2007, Rapport sur l'état de l'environnement de Madagascar

MEEF, 2005, 3<sup>e</sup> Rapport National de la CDB

Portal management

<http://mg.chm-cbd.net>

<http://www.atlaslemursmadagascar.net/>

# CURRICULUM VITAE

## RANDRIAMAHALEO

**Sahoby Ivy**

**Nationalité :** malgache

**Situation civile :** Marié, un Enfant

**Né le** 20 Avril 1975 à Befelatanana - Antananarivo – Madagascar

**CI N :** 108 111 005 764 délivrée le 23 juin 1994 à Antsirabe I,

Duplicata du 13/12/2010 à Antananarivo I

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## FORMATION ACADEMIQUE

Année	Diplôme	Institution	Ville	Pays
2003 - 2005	<b>Diplôme d'Etudes Approfondies</b> <u>Option : Evolution Biologique, Anthropologie Biologique</u> <u>Sous option: Primatologie</u>	Université	Antananarivo	Madagascar
2001-2002	<b>Aptitude d'Etudes Approfondies (AEA)</b> <u>Option : Evolution Biologique, Anthropologie Biologique</u> <u>Sous option: Primatologie</u>	Université	Antananarivo	Madagascar
2000-2001	<b>Maîtrise en Sciences Naturelles</b> <u>Option : Paléontologie et Evolution Biologique</u>	Université	Antananarivo	Madagascar
1999-2000	<b>Maîtrise 1<sup>ère</sup> Année en Sciences Naturelles : Licence</b> <u>Option : Paléontologie et Evolution Biologique</u>	Université	Antananarivo	Madagascar
1998-1999	<b>Diplôme Universitaire d'Enseignement en Sciences : DUESS II</b>	Université	Antananarivo	Madagascar
1996-1997	<b>Diplôme Universitaire d'Enseignement en Sciences : DUESS I</b>	Université	Antananarivo	Madagascar
1995	<b>Baccalauréat série D</b>	Ecole Chrétienne	Antsirabe	Madagascar
1991	<b>BEPC</b>	Ecole Saint Joseph Andohalo, EPP Bernard Canut	Antananarivo	Madagascar
1986	<b>CEPE</b>	Faravaohitra,	Antananarivo	Madagascar

## FORMATION PROFESSIONNELLE

ANNEE	OBJET DE FORMATION	INSTITUTION	VILLE	PAYS
Novembre 2013	<i>Participation à l'atelier de formation et évaluation de l'avancement mondiale sur l'élaboration et la mise à jour de la Stratégie et Plan d'Action Nationale sur la Biodiversité</i>	Convention sur la Diversité Biologique/ Programme des Nations Unies sur l'Environnement	Nairobi	Kenya
Avril 2013	<i>Participation à l'atelier de formation sous régional francophone sur l'élaboration du 5eme Rapport National sur la Diversité Biologique / SPNAB</i>	Convention sur la Diversité Biologique	Yaoundé	Cameroun

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<b>Novembre 2012</b>	<i>Participation à l'atelier de formation sur les procédures administratives</i>	Global Environment Facility (GEF)	Arusha	Tanzanie
<b>Janvier 2011</b>	<i>Participation à l'atelier de formation régionale du Programme de Travail sur les Aires Protégées</i>	Convention sur la Diversité Biologique / Programme de Travail sur les Aires Protégées (CDB) / POWPA	Cape Town	Afrique du Sud
<b>Octobre 2009</b>	<i>Participation à l'atelier de formation régionale du Programme de Travail sur les Aires Protégées</i>	Convention sur la Diversité Biologique / Programme de Travail sur les Aires Protégées (CDB) / POWPA	Grand Bassam	Côte d'Ivoire
<b>Janvier 2009</b>	<i>Formation sur le Développement et Biodiversité, / 6eme Conférence de Trondheim</i>	Convention sur la Diversité Biologique (CDB)	Trondheim	Norvège
<b>2008</b>	<i>Participation à l'atelier de Formation sur la gestion des zones Humides / Ramsar</i>	Ministère de l'Environnement et des Forêts	Antananarivo	Madagascar
<b>2000-2001</b>	<i>Formation en Informatique: Programmation (langage C et C++), Office ; Word et Excel, Windows, Internet</i>	Université, Faculté des Sciences, Filière Sciences Naturelles	Antananarivo	Madagascar
<b>2000-2001</b>	<i>Formation en Ecologie Nutritionnelle</i>	Université, Faculté des Sciences, Filière Sciences Naturelles	Antananarivo	Madagascar
<b>2000 1995</b>	<i>Formation en notion du Tourisme</i> <i>Formation en Horticulture</i>	IMC Centre Forestière de Nanisana	Antananarivo	Madagascar
			Antananarivo	Madagascar

## EXPERIENCE PROFESSIONNELLE

**2008 – Actuellement :** Ministère de l'Environnement et des Forêts

Direction Générale des Forêts

Direction de la Conservation de la Biodiversité et du Système des Aires Protégées,

- Assistant Technique du Projet d'Elaboration du Cinquième Rapport National de la CDB Madagascar et mise à jour de la SNGDB 2002 (SPANB ET 5RN : Plan Stratégique 2011-2020) : **Responsable thématique Taxonomie et Ecosystème** (depuis janvier – actuellement 2014)

- Collaborateur Technique au Service de la Conservation de la Biodiversité, (depuis 2008)
- Responsable de suivi écologique et de la Convention Internationale sur la Diversité Biologique

- Assistant du Point Focal National de la CDB de Madagascar
- Point Focal National du Programme de Travail sur les Aires Protégées de Madagascar (POWPA / CDB)

- Suivi de la mise en œuvre de la Convention Internationale sur la Diversité Biologique à Madagascar

**Elaboration des Rapports : Auteur principal des rapports nationaux de la CDB Madagascar**

- 5<sup>ème</sup> Rapport national de Madagascar, finalisé en mars 2014
- 4<sup>ème</sup> Rapport National de Madagascar, finalisé en 2010

**Elaboration des Plan d'actions nationaux et des Stratégies nationaux,**

- Stratégie et Plan d'Action National sur la Biodiversité : mise à jour en cours par rapport aux Plan Stratégique de 2011-2020
- Systèmes de suivi....
- Elaboration d'outils de suivi écologiques en partenariat avec les ONGs travaillant dans la

Biodiversité.

- Elaboration de stratégies nationales et mesures de conservation sur les taxonomies :
  - Lémuriens de Madagascar,
  - Amphibiens de Madagascar,
  - Reptiles de Madagascar

**2013- 2014 Elaboration d'outil national sur la capacité à renforcer sur la gestion de l'environnement** en cours sur la mise en œuvre de la Convention sur la Diversité Biologique avec les deux autres conventions internationales sur le Changement Climatique et la Désertification : NCSA/PNUD

**2012 – 2014 : Elaboration de l'Atlas sur les Lémuriens de Madagascar** en cours appuyé par JRS Biodiversity en collaboration avec l'ONE.

#### ***Elaboration des outils de gestion des aires protégées de Madagascar***

- Formation des acteurs sur la gestion des aires protégées (MIRADI, outils de gestion des AP)
  - Projet POWPA : formation des gestionnaires des aires protégées (Administrations et Partenaires Techniques)
  - Collaboration Projet POWPA/REPC
    - Formation des gestionnaires des Aires Protégées
    - Elaboration du Standard de Compétence sur la gestion des Aires Protégées
    - Programme de Certification sur la gestion des Aires Protégées en cours et réflexion de la suite du programme avec d'autre projet en perspective et en cours d'élaboration avec le GEF/PNUD (GEF STAR 5)
  - Participation à l'élaboration des outils de gestion dans les aires protégées futures de catégories V et VI dans le projet MRPA PNUD/ GEF

#### ***Participation aux Conférences des Parties de la Convention sur la Diversité Biologique***

- **Octobre 2010** : Membre de la délégation officielle de Madagascar à la Conférence des Parties de la Convention sur la Diversité Biologique, à Nagoya - Japon (COP 10)
- **Octobre 2008** : Membre de la délégation officielle de Madagascar à la Conférence des Parties de la Convention sur la Diversité Biologique, à Bonn - Allemagne

**2006-2008** : Ministère de l'Environnement et des Forêts

Direction Régionale de l'Environnement et des Forêts et du Tourisme

#### **Collaborateur Technique de la DREEFT Boeny, Projet PE III / IDA**

Coordination des activités PE III dans la Région Boeny sous la supervision du DREEFT

**Mars 2006:** Université d'Antananarivo, State University of New York Stony Brooks et Université de Harvard US

**Assistant de Recherche sur l'Etude de la Biodiversité et de la Biologie de Conservation aux Parcs Nationaux d'Ankarafantsika et de Mantadia, la Réserve Spéciale d'Analazanazaotra avec l'Université de Harvard Boston (Principal Investigator: Dr Amy E. DUNHAM, PhD)**

**Décembre 2005 à Février 2006:** Université d'Antananarivo, State University of New York Stony Brooks et MICET

**Assistant de recherche sur l'état de l'environnement à Madagascar** (Principal Investigator: Catherine Corson, Doctoral Student)

**Septembre à Novembre 2005:** Université d'Antananarivo, State University of New York Stony Brooks

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## **Consultant sur la Recherche en Biodiversité à Ranomafana**

**Teacher Assistant:** Ecologie, Primates, Oiseaux, Herpétoologie, Entomologie... Botanique

**Août 2005:** Université d'Antananarivo et Durrell Wildlife Conservation Trust

**Assistant de Recherche (Teacher Assistant) Earthwatch Program « Lémurs and Forest of Madagascar»** à ManomboFarafangana et Ifanadiana

Principal Investigator: Dr. Jonah Ratsimbazafy, PhD

**Juin 2005:** Université d'Antananarivo, State University of New York Stony BrooksetMICET

**Teacher Assistant of the Earthwacth Program « Lemurs of Madagascar»,** Parc national Ranomafana Ifanadiana

Principal Investigator: Summer J. Arrigo Nelson; ICTE Stony Brook/MICET Madagascar

**Septembre 2004:** Université d'Antananarivo

**Volontaire dans le projet « Lemurs and Forest of Madagascar»** à Manombo Farafangana, Earthwacth Team II

Principal Investigator: Dr. Jonah Ratsimbazafy, PhD

**Septembre 2003:** Université d'Antananarivo, SUNY Stony Brooks

**Assistant de Recherche:** Etude d'impact de l'habitat sur les modes de vie du Simpona à Ranomafana Ifanadiana

Principal Investigator: Summer J. Arrigo Nelson; ICTE Stony Brook/MICET Madagascar

**Février - Mai 2003:** Université d'Antananarivo, State University of New York Stony Brooks

**Assistant de Recherche:** Etude d'impact de l'habitat sur les modes de vie du Simpona à Ranomafana Ifanadiana

Principal Investigator: Summer J. Arrigo Nelson; ICTE Stony Brook/MICET Madagascar

**Décembre 2002 :** Université d'Antananarivo

**Assistant de Recherche**

Méthodologie de recherches en écologie à Andasibe avec l'Université d'Antananarivo

**Juin 2001 :** Université d'Antananarivo et SEECALINE

**Enquêteur nutritionnelle** dans la région d'Antananarivo Avaradrano, Ambohidahy Ilafy

**Mai 2001 :** Université d'Antananarivo

**Assistant en tant que stagiaire en 2tude de l'éologie, de la paléontologie et de la stratigraphies** sur terrain à Ranohira, Isalo, Sakaraha

**Février 2001 :** Université d'Antananarivo et SEECALINE

**Enquêteur sur la Consommation alimentaire** dans la ville d'Antananarivo

**Juillet 2000 :** Université d'Antananarivo et Projet UNICEF /HARDI

**Enquêteur Socio-économique** dans la ville d'Antananarivo (bas quartier) : Famille en difficulté

**Août 2000 :** Université d'Antananarivo

Assistant en recherche : Stage sur l'étude de la science écologique sur terrain à Analamazaotra Andasibe

**Année 2000 :** Groupe Iarivo

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Responsable de Communication, Administration au sein du groupe Iarivo Production lors des projets de spectacles

**1998 à 2001 : ONG MEDIMA**

Socio-organisateur pour l'appui et l'assistance de la population défavorisée de Mahaimandry Vinaninkarena Antsirabe

**HOBIES**

Natation, Basket Ball, Tennis, Trekking, Lecture, Musique

**DIVERS**

Permis B

**LINGUISTIQUES**

	<b>Lire</b>	<b>Ecrire</b>	<b>Parler</b>
<b>Malgache</b>	Très Bien	Très Bien	Très Bien
<b>Français</b>	Très Bien	Très Bien	Très Bien
<b>Anglais</b>	Bien	Bien	Bien

*Je certifie sur l'honneur l'exactitude de la présente déclaration, Je, soussigné, certifie, en toute conscience, que les renseignements ci-dessus rendent fidèlement compte de ma situation, de mes qualifications et de mon expérience*

**RANDRIAMAHALEO Sahoby Ivy**

# *Curriculum vitae* de

## **Mohamed DAKKI**

*Professeur de l'Enseignement Supérieur*

## **INSTITUT SCIENTIFIQUE (Université Mohammed V-Agdal)**

Av. Ibn Battuta, B.P. 703, RABAT-Agdal (Maroc)  
Tél. 212(661) 39 12 82 ; E-mail : dakkisr@gmail.com



Né le 31 mars 1952, dans la Prov. Taounate

Nationalité : marocaine

Situation familiale : marié, 3 enfants

Recruté à l'Institut Scientifique, le 20 sept. 1977

Fonction : Enseignant-Chercheur

Grade : Prof. Enseignement Supérieur, grade C

## **Formations / Diplômes obtenus / langues parlées**

### **FORMATIONS DIPLOMANTES**

- Doctorat d'État ès-Sciences en Ecologie ; Rabat, juin 1986.
- Doctorat de troisième cycle d'Hydrobiologie ; Marseille, décembre 1979.
- Diplôme d'Etudes Approfondies d'Ecologie Méditerranéenne ; Marseille, juin 1977.
- Licence ès-Sciences naturelles (Biologie et Géologie) ; Rabat, juin 1976.
- Baccalauréat ; série Sciences expérimentales ; Fès, juin 1972.

### **FORMATIONS ET STAGES COMPLEMENTAIRES DE COURTE DUREE**

- Formation en *Édition Scientifique* : 45 jours (Ecole Internat. Bordeaux et Rabat).
- Formations pratiques en :
  - *Informatique générale et Analyse de données* (Rabat, 1982) ;
  - *Techniques d'inventaire, de cartographie et de gestion des zones humides* (Europe, 1994-96) ;
  - *Planification Stratégique en Conservation de la Nature* : techn. WWF & TNC-USA (Italie, 2006) ;
  - *Bases de données - Systèmes d'Information Géographique ArcGIS* (Rabat, 2008).

### **LANGUES**

- **Arabe, Français, Anglais** (parlés/écrits) ; **Espagnol** (lu/parlé) ; Allemand (notions).

### **DISTINCTION**

- Décoration royale en 2008 au *Wissam Al Arch de l'Ordre de Chevalier*.

## Domaines d'expertise et acquis professionnels

### BIODIVERSITE ET ECOLOGIE

#### Ornithologie

##### *Hivernage et Recensement international d'oiseaux d'eau*

Programme de suivi national lancé au Maroc depuis 1980, dans le cadre des suivis internationaux des populations d'oiseaux d'eau, coordonnés par Wetlands International (ex. Bureau International de Recherche sur les Oiseaux d'Eau). Ma contribution consiste à :

- assurer la **Coordination** du suivi à l'échelle nationale et avec Wetlands International.
- participer aux **dénombrements de terrain** : ma contribution était intense durant les années 1989-2000, puis elle a régressé avec l'implication des ressources humaines nationales formées ;
- réaliser les **synthèses** et les **estimations des populations nationales** : ces synthèses, permettant d'atteindre l'objectif du programme de suivi, ont été faites en trois phases :
  - phase 1 (1991-1995) : synthèses pour les canards et les limicoles ;
  - phase 2 (1996-2000) : synthèse pour tous les oiseaux d'eau (réalisée avec une subvention de l'Office National de la Chasse français) ;
  - phase 3 (2001-2010) : synthèse globale, cartographie et tendances de l'hivernage (en cours).

##### *Phénologie de l'avifaune des zones humides du Maroc*

Il s'agit d'un *Programme national de recherche* lancé en 1989, à partir de l'*Institut Scientifique* ; il a pour principal objectif de définir les **modèles de migration des oiseaux d'eau et paludicoles** à travers le Maroc et se base sur des suivis réguliers des populations d'oiseaux des **principaux complexes de zones humides** du pays ; il est réalisé parallèlement à un *programme de formation d'ornithologues professionnels* (inscrits en doctorat).

- Pour les *oiseaux d'eau*, le programme comporte deux phases :
  - phase 1 (1989-1991) : *Sidi Bougaba* (1989-90) et *Complexe du bas Loukkos* (1990-92) : *suivi hebdomadaire à mensuel et mise au point des techniques de suivi* à l'échelle du pays ;
  - phase 2 (1992-2002) : lagunes de Merja Zerga, Smir et Sidi Moussa-Walidia, lacs du Moyen Atlas et zones humides intérieures du Centre-Atlantique ; ma contribution à cette phase consistait à encadrer les suivis et à participer occasionnellement aux travaux de terrain.
- Pour les *oiseaux paludicoles*, le programme a été mis sur pieds en collaboration avec l'*Institut für Vogelforschung* (Allemagne) et en partenariat avec l'*Université d'Oujda*. Ma contribution a consisté à encadrer les deux travaux et à gérer les activités de baguage au Maroc.

##### *Micro-distribution des oiseaux d'eau*

Programme lancé en 1994, avec l'objectif de mettre au point une **technique de zonage des sites pour une planification dynamique des actions de gestion** (en fonction du rythme d'occupation de l'espace par les espèces). Ma contribution dans ce programme, non encore achevé, consiste à :

- *encadrer les applications réalisées au Maroc (Merja Zerga, Sidi Moussa-Walidia et Complexe du Bas Loukkos) ;*
- *mettre au point et tester une méthode de dénombrement basée sur les fréquences d'observation (voir ci-après).*

### **Études pour la planification de la gestion cynégétique du gibier terrestre migrateur**

Ce programme a pour mission d'*estimer* et de *suivre les populations* de deux espèces gibiers (Tourterelle des bois et de Caille des blés), avec conception d'un *système informatisé de gestion des données* relatives à tout le gibier au Maroc. Ce programme est réalisé dans le cadre d'une convention de coopération entre la *Fédération Royale Marocaine de Chasse* et le *Groupe de Recherche pour la Protection des Oiseaux au Maroc*, signée en avril 2004.

En tant que *responsable du programme*, mon rôle est de *concevoir*, de *planifier* et d'*encadrer* les suivis de terrain et de réaliser les *synthèses nationales* des études, en collaboration avec deux experts du GREPOM.

### **Systématique, inventaires et écologie de la faune des zones humides du Maroc**

#### ***Descriptions et Mises au point systématiques sur la faune des eaux continentales***

Il s'agit d'une série de compilations (inventaires) et de *descriptions* et/ou *révisions d'espèces* :

- mises au point systématiques sur les *Insectes d'eau courante* (notamment les Trichoptères, les Plécoptères, les Ephéméroptères et les Coléoptères Elmidae) ;
- description d'une quinzaine d'*espèces nouvelles pour la Science* : Insectes (Trichoptères, Ephéméroptères, Plécoptères et Diptères) et Crustacés Amphipodes d'eau courante ;
- encadrement de mises au point systématiques sur deux groupes d'Insectes Diptères piqueurs (*Moustiques* et *Simulies*) et sur les *Crustacés Amphipodes* et sur les *Poissons* des eaux continentales du Maroc, avec participation à l'élaboration de *clés d'identification* nationales pour ces groupes.
- coordination d'une étude monographique des *Poissons* des eaux continentales du Maroc (systématique, distribution, biométrie, écologie et conservation), avec participation à l'élaboration d'une *clé d'identification* nationale pour ce groupe. Cette étude, lancée dès l'année 1996, a été financée dans le cadre du *Programme Thématique d'Appui à la Recherche Scientifique* (PROTARS) 2001-02 du Département de l'Enseignement Supérieur.

Ces mises au point se sont soldées par une *synthèse nationale sur la Faune aquatique continentale*, que j'ai éditée en 1997, dans le cadre du *Rapport National sur la Biodiversité* (réalisé pour le compte du Département de l'Environnement et le PNUE). Une *actualisation* de cette synthèse est en cours, avec la collaboration de chercheurs de diverses universités marocaines.

### **Monographie de la Flore vasculaire des zones humides du Maroc**

Il s'agit d'un programme de recherche et de formation, lancé avec la collaboration de botanistes ; initiateur de ce programme ; mon rôle y a été d'*encadrer les travaux de terrain* et de *collaborer aux produits scientifiques* ; lesquels produits consistent en :

- un **catalogue** des plantes vasculaires des zones humides du Maroc ;
- une analyse de la biodiversité floristique des zones humides du Maroc ;
- analyses des unités de *végétation de plusieurs zones humides* (Merja Zerga, Complexe du Bas Loukkos, lagune de Smir, lagune de Nador, complexe du Bas Tahaddart, cours central du Haut Sebou ...).

### **Inventaire des Amphibiens et des Reptiles du Maroc**

Il s'agit d'un travail d'inventaire ponctuel, réalisé dans le cadre d'une étude de faisabilité d'une Faune du Maroc et en grande partie exploité en 1988 pour la production du volume '*Faune*' de la '*Grande Encyclopédie du Maroc*', en plus d'un inventaire commenté de l'herpétofaune.

### **Écologie des peuplements d'invertébrés benthiques du Maroc (1977-1998)**

Il s'agit du premier axe de recherche mené en hydrobiologie des eaux courantes au Maroc ; il a constitué une priorité dans mes activités durant les années 1980, où j'ai produit de nombreuses publications sur la *classification*, la *distribution longitudinale* et la *micro-distribution des peuplements benthiques du bassin du haut Sebou* ; mais il a été poursuivi par l'*encadrement* d'autres recherches similaires sur le bassin versant du Bou Regreg et sur la région du Rif qui ont donné lieu à d'autres publications.

### **Recherche d'indicateurs de qualité des eaux courantes**

Cet axe de recherche visait la sélection et l'évaluation d'*indicateurs biologiques* parmi la *faune benthique* et de la *flore algale* ; il a été adopté durant les années 1980, pour être rapidement abandonné au profit d'autres axes d'investigation. Ma contribution a concerné l'*encadrement* et la participation à la *réalisation* de deux études sur l'*oued Sebou* en aval de la ville de Fès et l'*oued Boufekrane* en aval de la ville de Meknès.

### **Écologie des Amphibiens du Maroc**

Projet de brève durée, où j'ai assuré l'encadrement de deux mémoires de doctorat sur :

- l'écologie des *peuplements* d'Amphibiens dans la *forêt de la Ma'mora* et du *Moyen Atlas* ;
- le régime alimentaire du *Crapaud commun* dans le Moyen Atlas (Aguelmam Azegza).

### **Inventaire, typologie et suivi des zones humides**

#### **Techniques d'inventaire et de Suivi des zones humides**

Participation à la *phase I* de l'*Initiative MedWet* (Union Européenne, 1993-95), ayant pour mission d'élaborer les *méthodologies d'inventaire* (base de données, typologie, cartographie) des zones humides méditerranéennes ; ma participation était comme :

- membre du groupe d'experts du sous-projet 'Inventaire et suivi' ;
- responsable de l'*étude pilote au Maroc*, en application (test) de la méthodologie d'inventaire.

#### **Projet d'Inventaire National des Zones Humides**

Il s'agit d'un *grand axe de recherche* lancé en 1990, qui doit déboucher sur une base de données nationale, correspondant à une *monographie des zones humides*, utile à la fois à la connaissance et à la gestion de conservation des zones humides (descriptions physiques et écologiques des sites, et inventaire de leurs composantes, cartographie des habitats, activités humaines et usages des ressources, impacts des activités et des changements climatiques, enjeux et propositions de conservation ...). De nombreux articles et rapports ont été produits, souvent dans le cadre de financements assurés via les divers projets cités dans ce CV. Mon rôle d'*initiateur* et de *responsable* de cet axe de recherche est assuré via la collaboration de l'Équipe 'zones humides' de l'IS et de plusieurs autres ressources marocaines.

#### **Typologie des zones humides**

Démarrées durant les années 1980, ces études personnelles ont été focalisées sur la biotypologie des eaux courantes, mais elles se sont développées en programme national lors de mes trois interventions dans les travaux de l'initiative MedWet. Les résultats les plus importants sont :

- *Biotypologie des eaux continentales du Maroc* : études spécifiques au haut Sebou et compilation des résultats des autres études régionales, avec tentative de typologie nationale ;
- *Essai de biotypologie de peuplements littoraux* : application dans le cadre du soutien à une recherche de doctorat sur les invertébrés des substrats durs du littoral marocain ;
- *Proposition d'un schéma national préliminaire en 1998* : premier schéma élaboré dans le

cadre du premier rapport national sur les zones humides ;

- *Proposition d'une typologie nationale complète* : il s'agit d'un schéma de classification relativement complet proposé dans le cadre du projet MedWetCoast (voir ci-après), qui avait parmi ses missions d'élaborer une *stratégie nationale des zones humides* ; la typologie est parue dans le diagnostic relatif à la biodiversité, qu'il nous a été permis de publier sous forme de livre (qui est en cours de finition).

### **Cartographie des habitats des zones humides.**

Ce programme va de pair avec l'inventaire national (voir ci-dessus) ; il a démarré depuis 1997, avec l'élaboration de la carte des habitats de la Merja Zerga, pour être poursuivi dans le cadre de formations diplômantes et de projets de diagnostic de conservation : de nombreux sites sont déjà cartographiés. Ma contribution a concerné la *production de plusieurs cartes* et la *direction de la réalisation d'autres cartes*.

### **Diagnostics et Plans d'Aménagement et de gestion des zones humides (et côtières)**

#### ***Participation à la phase II de l'Initiative MedWet (Union Européenne, 1997-98)***

Cette phase avait pour mission l'élaboration du *Plan d'Aménagement et de gestion de la Merja Zerga* ; ma contribution a concerné trois volets :

- réalisation du travail de *cartographie des habitats* (et de la végétation) du site ;
- participation à l'élaboration du *Diagnostic écologique* et du *Programme de suivi* du site ;
- élaboration d'une première synthèse *sur les Zones Humides*, utilisé comme *rapport national 1998* pour la Convention de Ramsar.

#### ***Projet BirdLife de Plan de gestion de la Merja Zerga (CPCN-Rabat, 1994)***

Il s'agit d'une initiative de BirdLife, dans le cadre du *Comité des Programmes de Conservation de la Nature*, groupement d'ONGs où le GREPOM était représenté. Ma contribution consistait à participation aux travaux de l'atelier de préparation du plan de gestion et à réunir les éléments d'un '*diagnostic biologique*' qui servira de base de discussion dans cet atelier.

#### ***Participation au Projet MedWetCoast (phase III de l'Initiative MedWet, U.E., 2002-2003)***

Ce projet international avait pour mission la '*Conservation des écosystèmes des zones humides et côtiers de la région méditerranéenne*' ; ma contribution était dans le cadre du *diagnostic des cinq sites marocains* et de l'élaboration de la *stratégie nationale sur les zones humides* ; elle a été focalisée sur :

- la réalisation de l'*expertise 'zones humides-hydrologie'* ;
- la participation à la réalisation de la '*cartographie des habitats 'zones humides'*' ;
- la réalisation du *diagnostic de la biodiversité des zones humides du Maroc*.

#### ***Participation au Projet 'Etude et Plans de Gestion des Aires Protégées du Maroc'***

Ce projet, réalisé en 1993-96, fut financé par la BAD et exécuté par le groupement BCEOM-SECA pour le compte de l'Administration des Eaux et Forêts ; ma contribution a concerné deux aspects :

- réalisation d'une *expertise* de définition d'un réseau de '*Zones Humides*' à classer dans le Plan Directeur des Aires Protégées du Maroc, surtout comme *Sites d'Intérêt Biologique et Ecologique* ;
- participation aux travaux du *Comité scientifique* du projet (comme *membre de ce comité*).

### **Participation au Projet de 'Gestion des Aires Protégées du Maroc' (Banque Mondiale)**

Ce projet constitue la phase de mise en œuvre du Plan Directeur des Aires Protégées du Maroc (voir projet précédent) ; il relevait du Haut Commissariat aux Eaux et Forêts et à la Lutte Contre la Désertification. Ma contribution a consisté à :

- réaliser la *Base de Données Géospatiale des Aires Protégées*, notamment la partie métier ;
- participer à la réalisation de l'application de *suivi des aires protégées* ;
- réaliser l'habillage du *centre d'information de la réserve de Tamga* (Haut Atlas).

### **Projet de Conservation des marais de Larache (GREPOM-CICONIA-INSTITUT SCIENTIFIQUE)**

Ce projet constitue une expérience de conservation menée par une ONG (GREPOM), en partenariat avec l'Institut Scientifique et le Conseil Provincial de Larache et le financement de la Fondation CICONIA au Lichtenstein. Il a été réalisé en trois phases, auxquelles j'ai contribué comme *coresponsable du projet* (avec M.A. El Agbani), chargé notamment de *coordinateur scientifique*, mais surtout par la réalisation de travaux scientifiques :

- *phase 'étude de faisabilité'* (2001) : réalisation de la synthèse des *données de base* pour l'établissement du *plan d'aménagement* ;
- *Phase 'actions opérationnelles'* (2004-2005) : planification, *encadrement* et/ou coordination des études de diagnostic ; production (sous forme de livres et avec la collaboration de M.A El Agbani) des *Guidelines pour mener une diagnostic territorial de conservation* (document prêt à l'impression) et du *Plan de Gestion* préliminaire du complexe du Bas Loukkos.
- *Phase de mise en œuvre* : réalisation de la *concertation* pour la mise en œuvre des actions de conservation.

### **Projet 'Inscription de nouveaux sites marocains sur la Liste Ramsar des zones humides'**

Réalisé en 2002-2004, avec la collaboration du Haut Commissariat aux Eaux et Forêts et à la Lutte Contre la Désertification et le financé du WWF-International (Living Water Programme - Small Grant), il avait pour but d'inscrire 20 sites sur la *Liste des Zones Humides d'Importance Internationale* (établissement par la Convention de Ramsar). Mes rôles y ont concerné la *conception du projet* et sa *coordination scientifique*, la réalisation des *inventaires de cinq sites* et la *compilation du rapport définitif*.

### **Projet 'Zones d'Importance pour la Conservation des Oiseaux au Maroc' (BirdLife, 19994-95)**

Cette initiative, ayant des objectifs et des principes de conservation similaires à ceux du précédent projet, a débouché sur un inventaire de *Zones Importantes pour la Conservation des Oiseaux*. Mon rôle y a consisté à *participer à tous les ateliers de conception des fiches et des critères*, à *coordonner* la réalisation des fiches établies par le GREPOM et à participer à l'*élaboration de ces fiches*.

### **Projet 'Diagnostic des zones humides du Mgoun-Dadès' (2003-2004).**

C'est une étude d'évaluation de la biodiversité, réalisée sur les eaux des oueds Dades (entre Qal'at Mgouna et Ouarzazate) et Mgoun ; elle a été menée dans le cadre du *Projet Conservation de la Biodiversité par la Transhumance dans le versant sud du Haut Atlas* (CBTHA), exécuté par l'Office Régional de Mise en Valeur Agricole de Ouarzazate. Ma contribution consistait à effectuer les *prospections de terrain* et à *rédiger le diagnostic* (avec la collaboration de E. Sehhar).

### **Projet 'Water and Wetlands Index' (WWF International, 2003-2004)**

Ce projet visait l'établissement d'un diagnostic d'évaluation de la gestion de l'eau et des écosystèmes aquatiques au Maroc ; lequel diagnostic fut intégré à un rapport méditerranéen sur cet aspect. Ma contribution fut de *Coordonner* l'étude, d'en *réaliser* une grande partie et de rédiger le *rapport de synthèse* (avec la collaboration de M. Touji).

### **Projets 'Évaluation de la biodiversité des écosystèmes d'eau douce du Sebou' (WWF-MedPo)**

Ce projet est exécuté par le Groupe de Recherche pour la Protection des Oiseaux au Maroc, consiste à constituer une *base de données de la biodiversité aquatique* du haut Sebou et à proposer au WWF une *stratégie de conservation des zones humides* de ce bassin versant. Mon rôle concerne la gestion du projet, la réalisation de la base de données et de la stratégie.

### **Participation au Projet MECO (Union Européenne, 1998-2001)**

Ce projet international, intitulé '*Bases pour un aménagement intégré des écosystèmes côtiers méditerranéens sensibles*', a été consacré à la lagune de Smir. Ma participation concerne la réalisation de la *cartographie des habitats* et de la *végétation*.

## **DEVELOPPEMENT DURABLE**

### **Programme d'Aménagement Côtier de la Méditerranée marocaine (PAM, 2003-2004)**

Cette étude a pour but d'orienter les actions du *Plan d'Action pour la Méditerranée* (Convention de Barcelone) en matière GIZC au Maroc ; elle a consisté à définir *une zone et des axes d'intervention prioritaires*, adaptées au contexte naturel et social local, et à planifier et discuter leur *faisabilité*. Ma contribution était de *coordonner le diagnostic* et de *rédiger le programme d'action*.

### **Projet 'Mise en valeur écotouristique et éducative de la basse Moulouya' (AFD, 2004-2005)**

Il s'agit d'une étude réalisée en marge du projet MedWetCoast ; proposée pour pallier au manque de plan de gestion de ce site, elle comprend un *diagnostic illustré* du site et un schéma d'aménagement et d'exploitation touristique et éducatif. Mon rôle a couvert la gestion du projet, la cartographie (habitats et schéma) et la rédaction des documents et des cartes.

### **Projet 'Développement Intégré de la Basse Moulouya et des Béni Snassen' (Agence de l'Oriental)**

C'est une étude qui a pour objectif de planification un *développement durable* dans deux aires protégées de la région de l'Oriental ; elle comporte un *diagnostic territorial* et un *programme d'action*. Mon rôle couvre pratiquement tout le projet.

### **Programme 'Développement de la région 'Akhfennir - Parc Nat. Khnifiss' (Agence du Sud)**

Il consiste à proposer un *schéma d'exploitation touristique* durable et *programme de développement local* axé sur ce schéma et réunissant un ensemble d'actions de développement local conçues par l'Agence du Sud dans le cadre de l'*Initiative pour la Promotion de l'Emploi et du Développement*. Mes interventions couvrent la coordination de l'étude et la réalisation du programme de développement et d'une partie du schéma d'exploitation touristique.

## **CONCEPTION D'OUTILS DE TRAVAIL ET DE METHODOLOGIES ECOLOGIQUES**

### **Conception et réalisation de bases de données**

#### **BDD 'Oiseaux d'eau et Zones humides du Maroc'**

Ce système assure la gestion à l'échelle nationale des *données des recensements hivernaux d'oiseaux d'eau* et de quelques caractéristiques de leurs habitats ; il donne de nombreuses possibilités de *synthèse* et de *calcul*. Mes interventions ont consisté à assurer la *conception*, la *réalisation* et la *gestion* de la Base de données dans sa première version (fonctionnelle sous dBase IV jusqu'en 2000), puis à *concevoir un nouveau système* sous Access et Visual Basic.Net, dont le développement a été confié à un développeur.

### **BDD 'Faune du Maroc'**

Ce système assure actuellement le stockage hiérarchisé des données de *Systématique*, de l'*endémisme*, des *menaces*, de la *distribution géographique* des espèces, tout en offrant des possibilités de synthèse, de création de sous-bases et de rapports sur la *biodiversité du Maroc*. Mon intervention a consisté à assurer la *conception*, la *réalisation* et la *gestion* de la Base de données dans sa première version (fonctionnelle sous dBase IV jusqu'en 2000), puis à *concevoir un nouveau schéma*, plus complet, dont le développement (sous VB.Net) a été confié à un spécialiste.

Les bases de données géospatiales élaborées (par *moi-même* et par des consultants en développement informatique) pour la gestion des *Aires Protégées*, d'une part, et du *gibier*, d'autre part (voir ci-après), constituent des variantes de cette base de données.

### **BDD 'Aires Protégées du Maroc'**

Il s'agit d'un système destiné à assurer la gestion des données relatives aux aires protégées du Maroc ; il a été réalisé pour le compte du Haut Commissariat aux Eaux et Forêts et à la Lutte Contre la Désertification. Ma contribution a consisté à *concevoir la base de données* (partie métier) et à y intégrer les données (avec la collaboration d'un consultant spécialiste en SIG, à qui a été confié le développement du système).

### **BDD 'Gibier et Chasse au Maroc'**

Ce système, destiné à assurer la gestion de toutes les données relatives à l'activité cynégétique au Maroc, est réalisé pour le compte de la Fédération Royale Marocaine de Chasse ; il a été proposé dans le cadre d'une convention de coopération entre cette fédération et le Groupe de Recherche pour la Protection des Oiseaux au Maroc. Ma contribution consiste à *concevoir la base de données* (partie métier) et son *interface de gestion*, sachant que le développement est assuré par un consultant en développement informatique.

### **BDD 'Bibliographie sur l'environnement naturel du Maroc'**

Élaborée initialement sous dBase IV, cette base de données contient plus de 6.000 références sur l'environnement du Maroc, dont plus de 3.000 concernent les zones humides. Mon rôle concerne la *réalisation* et l'*alimentation* de l'ensemble de la base de données ; laquelle est actuellement remaniée pour être gérée sous Access et VB.Net (développement en cours par un spécialiste).

### **BDD 'Baguage d'oiseaux au Maroc'**

Ce système, que j'ai *conçu* et *réalisé* est encore dans état archaïque (sous dBase IV), mais il est en mesure de gérer les *reprises* de bagues et les programmes de *baguage* à l'échelle nationale ; faute de personnel en mesure d'assurer sa gestion, seul le stockage des données existantes jusqu'en 2000 a été réalisé (dans le cadre d'activités de préparation d'un doctorat d'ornithologie, dirigées par moi-même).

### **BDD-SIG 'Lagunes du Maroc'**

Projet en cours de réalisation dans le cadre du programme LagMar du Réseau National des Sciences et Techniques de la Mer (REMER) et en partenariat avec le Centre Royal de Télédétection Spatiale (CRTS). Outre la coordination du projet, ma contribution technique concerne l'*élaboration du modèle conceptuel de la Base de données* et de l'*interface de gestion* et d'exploitation des données, ainsi que les travaux relatifs aux tests de terrain (à Merja Zerga).

## Méthodologies en écologique

### *Adaptations de l'Analyse Factorielle des Correspondances aux études écologiques*

Il ne s'agit pas de simples applications d'outils d'analyse de données, mais d'*analyses critiques* et d'*adaptations* aux études des macro-distributions et micro-distributions des peuplements aquatiques et ornithologiques. Les *nouveautés* introduites concernent le traitement des *données spatio-temporelles* et le choix des données pour l'*élimination de l'effet du temps* (classifications regroupant les eaux permanentes et temporaires).

### *Mise au point d'un indice de préférence écologique*

Il s'agit d'un indice créé pour mesurer le degré de *spécialisation écologique des espèces* et d'en sélectionner les *formes indicatrices*, qui servent à *caractériser les peuplements et les biotopes*, y compris dans les groupements définis par l'AFC. La pertinence de cet indice apparaît dans le *diagramme abondance - degré de préférence*, proposé comme outil d'analyse descriptive des peuplements. Outre les premiers tests que j'ai réalisés sur les peuplements d'invertébrés aquatiques, cette méthode a été appliquée par d'autres écologistes sur d'autres groupes (notamment aux oiseaux) ; actuellement, un travail de doctorat a été consacré à l'étude de la variabilité de l'indice et à la standardisation du diagramme.

### *Mise au point d'une technique d'étude de la micro-distribution des oiseaux*

Il s'agit d'une technique d'échantillonnage proposée pour *palier la difficulté d'estimer les superficies des habitats en mosaïque complexe*. Elle est basée sur les *fréquences de contacts espèce-observateur* et non sur les densités ; les premiers tests (dans les complexes de Sidi Moussa-Walidia et du Bas Loukkos) ont permis de calculer le *degré de préférence* et de *classifier les peuplements d'oiseaux d'eau* ; mais les expériences se poursuivent (dans le cadre d'un doctorat) dans le Bas Loukkos pour standardiser cette technique.

## ÉTUDES D'IMPACT

Elles se rapportent à différents types de projets, avec prédominance des Parcs éoliens ; pour chaque étude sont donnés le *nom du projet*, le *maître d'ouvrage* et la nature de ma participation.

### *Exploitation des schistes bitumineux de la région de Tarfaya-Khnifiss (Shell Prospecting)*

Étude de l'état initial de l'environnement, en grande partie publiée dans un ouvrage spécial : coordination, compilation des expertises et traduction des textes à l'anglais.

### *Rocade routière méditerranéenne : tronçon Tétouan-Al Hoceima (Minist. Trav. Publ.)*

Étude d'Impact Environnementale complète : coordination, réalisation des expertises relatives à la faune, aux paysages, aux aires protégées, contraintes environnementales et synthèse d'évaluation environnementale.

### *Hutte d'observation d'oiseaux dans la réserve biologique de Sidi Boughaba (SPANA)*

Étude d'Impact Environnementale complète : réalisation.

### *Barrage hydroélectrique sur le cours supérieur de l'oued Oum Er-Rbi'a (Minist. Trav. Publ.)*

Étude d'Impact Environnementale complète : réalisation.

### *Complexe Huilerie/Conserverie d'Olives dans la région de Ghafsaï (Particulier)*

Étude d'Impact Environnementale complète : réalisation partielle (sans les visites de terrain).

**Liaison électrique Espagne-Maroc, région de Qsar Es-Sghir (Office National de l'Électricité)**  
Étude de l'état initial : réalisation des expertises 'Faune' et 'Paysages'.

**Parc éolien de Ras El Wad, Ouest de La'youne (NAREVA)**  
Étude ornithologique : coordination et compilation.

**Parc éolien d'Akhfennir, Est de Tarfaya (NAREVA)**  
Étude ornithologique : coordination et compilation.

**Parc éolien de Tarfaya (Office National de l'Électricité)**  
Étude ornithologique : coordination et compilation.

**Parc éolien de Jbel Sendouq-Khalladi, région de Qsar Sghir (UPC Renewables, USA)**  
Étude d'Impact Environnementale complète : coordination, réalisation partielle et compilation.

## Enseignement, formations et encadrement de recherche

### ENSEIGNEMENT UNIVERSITAIRE ET PARAUNIVERSITAIRE

#### Cours magistraux

##### *Faunistique (Arthropodes, Tétrapodes)*

Systématique animale, avec des notions de biologie, d'écologie, de comportement et l'état des lieux de chaque groupe au Maroc.

- Faculté des Sciences (50 heures, 3<sup>ème</sup> année Biologie, 3<sup>ème</sup> année Géologie), Rabat (1989-1996) ;
- École Nationale Forestière d'Ingénieurs (25 heures Tétrapodes, 2<sup>ème</sup> cycle), Salé (1998-2000).

##### *Écologie animale (Zoo-écologie)*

Notions d'écologie fondamentale et appliquée (composition et fonctionnement des écosystèmes, dynamique des populations, structure des peuplements ...), avec exemples marocains.

- Faculté des Sciences (40 heures, 4<sup>ème</sup> année Licence), Rabat (1986-1994) ;
- École Nationale Forestière d'Ingénieurs (25 heures), Salé (1992-2004).

##### *Écologie des populations et des peuplements*

Concepts fondamentaux (et applications) d'écologie des populations (dynamique et stratégies démographiques) et des communautés (organisation et structure des peuplements), avec exemples dans le règne animal.

- Faculté des Sciences, (25 heures, CEA d'Écologie), Rabat (1984).

##### *Stratégies adaptatives*

Cours d'écologie des populations, focalisé sur les *Stratégies dans le Règne Animal*, plus particulièrement sur les *stratégies démographiques*.

- Faculté des Sciences, Rabat (25 heures, CEA Biologie Évolutive), Rabat (1990-92).

##### *Biodiversité*

Enseignement focalisé sur les *notions fondamentales et pratiques utiles à la Conservation* : fonction-

nement des écosystèmes, habitats naturels, évaluation de la biodiversité, activités humaines et leurs effets sur la biodiversité, stratégies et actions de conservation ... ;

- Faculté des Lettres (24 heures, DESS, DESA et Master, Chaire UNESCO), Rabat (1998-2008) ;
- École Nationale Forestière d'Ingénieurs (10 heures, Option Aires Protégées), Salé (2006-2007) ;
- Faculté des Sciences (90 heures, Module S5, Master Biodiversité), Rabat (2006-2008).

### ***Écologie et Environnement***

Notions d'écologie et de biodiversité, principes et application des Études d'Impact Environnementales.

- École Nationale d'Architecture (30-40 heures, 3-4<sup>èmes</sup> années), Rabat (2000-02).

### ***Études d'Impacts Environnementales***

Principes (et liens avec le développement durable) et méthodologie générale des Études d'Impact Environnementales.

- École Mohammedia d'Ingénieurs (20 heures, DESA Génie Minérale), Rabat (1999-2000) ;

### ***Management de projets***

Techniques et étapes de conception/montage d'un projet et place du montage dans le Cycle de projet, avec indications sur la phase de réalisation. Des exemples de projets concrets sont montrés en guise d'applications pratique des techniques.

- Institut National d'Aménagement et d'Urbanisme (40 heures), Rabat (depuis 2002, irrégulier) ;
- Faculté des Lettres et des Sciences Humaines (12 heures, Chaire Unesco), Rabat (irrégulier) ;
- Faculté des Sciences (12 heures, Master Biodiversité), Rabat (2007-2008).

### **Travaux pratiques/travaux dirigés**

#### ***Écologie animale***

Méthodes de recherche en écologie fondamentale, illustrées par des applications pratiques.

- Faculté des Sciences (12 séances x 4 groupes x 4 heures, 4<sup>ème</sup> année Licence), Rabat (1978-86) ;
- Faculté des Lettres et des Sciences humaines (Sorite de terrain en illustration du cours) ;
- École Nationale Forestière d'Ingénieurs, Salé (Sorite de terrain en illustration du cours) ;

#### ***Biologie cellulaire***

Examen microscopique de membranes et d'organites cellulaires.

- Faculté des Sciences (2 séances x 6 groupes x 3 heures ; 1<sup>ère</sup> année Biol. & Géol.), Rabat (1978).

### **Séminaires/Conférences-débat**

#### ***Méthodes pratiques de recherche et de rédaction***

Enseignement de courte durée, portant sur la *planification des projets de recherche, la recherche bibliographique et la rédaction des mémoires et des articles*.

- Faculté des Sciences (8-16 heures, CEA, DESA et DESS), Rabat (depuis 1989, irrégulier) ;
- Faculté des Lettres et des Sciences humaines (*idem*), Rabat (1998-2002) ;

#### ***Montage de projets***

Principes et étapes de conception d'un projet (version simplifiée du cours indiqué ci-dessus).

- Séminaire dispensé dans plusieurs établissements universitaires (Institut Scientifique, Facultés des Sciences et Techniques de Fès et de Mohammedia, Faculté des Science de Meknès et de Tétouan), au profit d'Enseignants-chercheurs et d'étudiants en CEA, DESA, DESS et Master.

#### ***Migrations d'oiseaux***

- Faculté des Sciences (4<sup>ème</sup> année Biol. Anim.), Rabat,
- École Nationale Forestière d'Ingénieurs (3<sup>ème</sup> cycle), Salé (2000).

### **FORMATIONS SPECIALISEES/CONTINUES**

#### ***Zones Humides (CIPO, Mehdia, 1990)***

Formation au profit des gestionnaires des zones humides, organisée en 1990, par BirdLife International (ex. Conseil International pour la Protection des Oiseaux). Mon intervention a porté sur l'*importance des zones humides du Maroc pour l'hivernage des oiseaux d'eau*.

#### ***Formation WetSchool sur les Zones Humides (FEM-WWF Méditerranée)***

Cours sur l'écologie et la gestion des zones humides, au profit d'ONGs nord-africaines. Mon intervention s'est rapportée aux *caractéristiques et valeurs des zones humides nord-africaines*.

#### ***Formation MedWetCoast sur la Gestion des zones humides (Départ. Envir. Maroc-PNUE, 2004)***

Initiation à la gestion des zones humides, organisé en juillet 2004, à Nador, au profit des ONGs et des Élus locaux de la région de Berkane et de Nador. Mon intervention, étalée sur deux jours, a concerné les méthodes de *diagnostic et d'évaluation écologique (valeurs et dysfonctionnements)* des zones humides.

#### ***Diagnostics pour les Plans de gestion des zones humides (Rabat & Larache, 2004)***

Formation aux diagnostics (principes et méthodes) pour l'élaboration d'un Plan d'Aménagement et de Gestion d'une zone humide, avec application au Complexe du Bas Loukkos. Elle fut organisée en deux étapes (Rabat, 5-6 mars 2004 ; Larache, 19-22 avril 2004), au profit d'une équipe de 16 chercheurs et acteurs associatifs. Mon rôle consistait à animer toute la formation.

#### ***Biodiversité : Bases pour la conservation et le plaidoyer (As. H & E Berkane-FEM, 2008)***

Initiation aux principes et méthodes de Plaidoyer en 'Biodiversité', au profit d'un Groupement d'associations d'environnement et développement (Ecoloplateforme). Mon intervention a porté sur les concepts de base utilisés dans les projets de conservation de la biodiversité.

#### ***Études d'Impacts Environnementales (INAU, 2002)***

Initiation aux méthodes et aux étapes des Études d'Impact Environnementales, dispensée dans le cadre d'une formation continue organisée au profit des cadres de l'Aménagement du Territoire. Mon intervention a concerné

#### ***Management de projets***

Formations au montage de projets, plus ou moins similaire à celle dispensé dans le cadre universitaire, avec exemples pris dans le monde du développement, de la formation ou de la recherche, selon le besoin de chaque catégorie de cible ; de durée variable (1-3 jours), elle a été organisée au profit de :

- membres du Réseau National des Sciences et Techniques de la Mer, notamment le Comité de suivi et le Conseil Scientifique du Programme de recherche LagMar : 2 sessions d'une journée ;
- cadres du Haut Commissariat aux Anciens Résistants et Anciens Membres de l'Armée de Li-

- bération (École Nationale d'Administration, Rabat, 2009) : une session de 3 jours ;
- nouveaux cadres du Ministère de l'Éducation Nationale (École Nationale d'Administration, Rabat, 2009) : une session de ½ journée ;
  - chercheurs de l'Institut Scientifique désireux de participer à l'appel d'offre lancé par l'Université Mohammed V-Agdal dans le cadre du Plan d'Urgence en matière de recherche scientifique (Institut Scientifique, Rabat, sept. 2009) : 3 sessions de ½ journée.

#### **Diagnostics et Projets de Territoire (INAU, 2009)**

Module de formation dispensé dans le cadre d'une formation continue organisée au profit des cadres du Ministère de l'Habitat et de l'Urbanisme (Institut National d'Aménagement et d'Urbanisme 2009) : une session d'une journée pour quatre groupes.

#### **Ornithologie, Migrations d'Oiseaux**

- Notions de base sur les migrations d'oiseaux dans le monde et à travers le Maroc ; module de formation de 3 heures, dispensé à diverses Associations de chasseurs dans différents Bureaux Régionaux de la Fédération Royale Marocaine de Chasse.
- Initiation à l'ornithologie : notions de base sur les oiseaux (reconnaissance, reproduction, migrations et importance pour la conservation). Formation dispensée au profit de membres de l'*Association des Enseignants de Sciences de la Vie et de la Terre*, Tanger, 27 mars – 1<sup>er</sup> avril 2010.

#### **Écotourisme**

Initiation au développement de l'Écotourisme (accueil et accompagnement) dans la Région de Khnifiss-Akhfennir, au profit de l'*Association Khnifiss pour le Tourisme Culturel et la Protection de l'Environnement*, Akhfennir (Province de Tarfaya). 12-15 janvier 2010.

### **CONFERENCES HORS DE L'ENSEIGNEMENT UNIVERSITAIRE**

Grand nombre de Conférences se rapportant à divers thèmes : Biodiversité-Écologie, Zones Humides, Développement durable, Aires Protégées, Grippe aviaire, Science et Islam, Changements climatiques ...

### **Direction et encadrement de travaux de doctorat**

- 12 thèses d'État ès-Sciences ;
- 12 thèses de troisième cycle/universitaires ;
- 11 thèses de doctorat national ;
- 14 mémoires de 3<sup>ème</sup> cycle de l'ENFI (Salé) et de l'IAV Hassan II (Rabat) ;
- +16 mémoires de DESS, DESA ou Master, 03 mémoires de fin d'étude (niveau bac+4) de candidats étrangers (France, Allemagne) ;
- 03 thèses de médecine (parasitologie - envenimations).

### **Édition scientifique**

- Rédacteur en Chef des Revues de l'Institut Scientifique de 1983 à 2004.
- Rédacteur du bulletin d'information de l'Ass. Marocaine de Biodiversité (*Maroc Biodiversité*);

- Rédacteur en Chef de la revue '*Lagunes du Maroc*' (du Réseau National des Sciences et Techniques de la Mer), éditée depuis 2009 ;
- Direction du volume *FAUNE de la 'Grande Encyclopédie du Maroc'*, 1988 ;
- Co-éditeur scientifique d'un ouvrage collectif intitulé *The Khnifiss Lagoon and its surrounding Environment* (Province of Tarfaya, Morocco), 1988.
- Co-éditeur scientifique des Actes du Séminaire sur les Marais de Smir-Restinga (Maroc), Tétouan, 16-17 mars 1995.

## Responsabilités administratives et scientifiques

- *Chef du Département* de Zoologie et Ecologie Animale : mars 1980 à février 1990.
- *Responsable du Service* d'Édition : de 1990 à 2004.
- *Responsable scientifique* du Centre d'Etude des Migrations d'Oiseaux, depuis 1992.
- *Responsable de l'Equipe 'Zones Humides'* à l'Institut Scientifique, depuis 2005.
- *Coordinateur National* pour *Wetlands International* (ex. Bur. Int. Rech. Ois. Eau), depuis 1988.
- *Coordinateur du Conseil Scientifique* du programme de recherche LagMar du Réseau National des Sciences et Techniques de la Mer.
- *Correspondant National* du Groupe d'Experts Scientifique et Technique de la Convention de Ramsar, depuis 2001.
- *Représentant* de l'Institut Scientifique dans le Comité National Ramsar (CNR), depuis 2001.

## Responsabilités et Activités associatives

### RESPONSABILITES

- *Président* (et membre fondateur) du Groupe de Recherche pour la Protection des Oiseaux au Maroc (GREPOM), depuis 1993.
- *Président* (et membre fondateur) de l'Association Marocaine de Biodiversité (AMAB) depuis 1998 (président à partir de 2004).
- *Correspondant National* (non gouvernemental) de la Convention de Ramsar pour la Communication, l'Education et la Sensibilisation du Public (CESP), depuis 2001.
- *Représentant* du GREPOM dans le Comité National de Biodiversité (CNB), depuis 2002.

### ADHESIONS

- *Membre du Bureau* du Comité Man & Biosphère - Maroc (**MAB-Maroc**), depuis 1990.
- *Membre* de la Société Internationale de Limnologie théorique et appliquée (**SIL**) et de l'Association Française de Limnologie (**AFL**), 1978-1984.
- *Membre* du Wader Study Group (**WSG**), groupe international basé aux Pays-Bas, 1994-2000.
- *Membre* de l'Union des Ornithologues Européens (**UOE**), 2001-2003.

## ACTIVITES

### Éducation environnementale - sensibilisation

- Participation à la réalisation et à l'application d'un **programme de sensibilisation** des jeunes à la protection, organisé par la SPANA durant les étés 1989 (4 semaines) et 1990 (3 semaines).
- Participation à la conception et à l'élaboration des expositions du **Centre National d'Education Environnementale** (Mehdia).
- Participation au projet de **mise en valeur écotouristique et éducative du complexe de zones humides du bas Loukkos** : projet mené par le Groupe de Recherche pour la Protection des Oiseaux au Maroc, en collaboration avec la Fondation CICONIA (Lichtenstein).
- Production d'une *brochure d'information sur le Site Ramsar de l'Embouchure de la Moulouya*, 54 pages illustrées en couleurs, produite dans le cadre du projet MedWetCoast (convention GREPOM-AFD France).

### Organisation d'événements scientifiques importants

- *Journées d'Etude "Oiseaux d'eau et Zones Humides au Maroc"* : 1ères JOEZH (25 & 26 novembre 1992), Rabat ; 2èmes JOEZH (6 & 7 décembre 1993, Rabat) ; 3èmes JOEZH (5 & 6 juin 2000) ; 4èmes JOEZH (16-17 fév. 2007).
- *Journée Mondiale des Zones Humides* : Mehdia, 1-2 fév. 1998 ; Mehdia-Rabat, 03 fév. 1999 ; Mehdia-Mohammedia, 4 fév. 2000 ; Ifrane, fév. 2001 ; Rabat, 2 fév. 2002 ; Rabat, 2 fév. 2003 ; Larache, 13 fév. 2004 ; Massa, 2 fév. 2006 ; Fès, 2 fév. 2008.
- *Journées nationales de Biodiversité* (JNB) : 2èmes JNB : Rabat, 26-27 mai 2000 ; 3èmes JNB, Errachidia, 05-06 mai 2006 ; 5èmes JND, Fès, 18-20 déc. 2008.
- Premier Congrès de l'Association Marocaine de Biodiversité, 19-21 juin 2001.
- Animation de deux *ateliers* dans le cadre du *Débat National sur l'Aménagement du Territoire*, mai 2000, Al Qaria (Prov. Taounate) et Moulay Bou Selham (Prov. Kénitra).
- Organisation d'un Atelier national sur l'application du concept "*recherche des causes à la racine* du WWF" au site Ramsar de la Merja Zerga.
- Participation à l'organisation de la *Sixième Conférence Internationale des Entomologistes Francophones* (CIFE VI), Rabat juillet 2006.

### Participation à des Ateliers et Congrès internationaux

- Atelier technique international sur *Oxyura jamaicensis* : Arundel (Royaume Uni), 1-2 mars 1993 ;
- Journées techniques internationales "Bases ecologicas para la Restauración de Humedales en la Cuenca Mediterranea", La Rabida (Huelva, Espagne), 7-11 juin 1993.
- Réunions du 'Groupe d'experts' du projet MedWet : Alcochète (Portugal), juillet 1993 ; Bizerte (Tunisie), mai 1994 ; Tour du Valat (Camargue, France), novembre 1994 ; Costa da Caparica (Portugal), sept. 1995.
- Atelier technique international sur *Oxyura jamaicensis* : Cordoba (Espagne), septembre 1994.
- Atelier de recherche sur les Montagnes maghrébines, gestion des ressources naturelles et protection de l'environnement, Rabat, décembre 1993.

- Atelier sur la stratégie de conservation du Goéland d'Audouin, Montecristo (Italie), mai 1994.
- Congrès International "Anatidae 2000", Strasbourg (France), 5-9 décembre 1994.
- 10<sup>th</sup> International Waterfowl Ecology Symposium, Aveiro (Portugal) ; 15-118 septembre 1995.
- Wader Study Group Conference, Aveiro (Portugal) ; 19-21 septembre 1995.
- International Conference on the Conservation of wetlands in a North-South perspective, Seville (Espagne), 26-29 novembre 1995.
- Conférence Internationale sur les zones humides méditerranéennes, Venise, 5-9 juin 1996.
- Atelier Unesco sur la gestion des Aires Protégées, Mehdia-Rabat (Maroc), 5-16 mai 1997.
- Séminaire sur les Zones Humides, Kénitra, 24-26 septembre 1997, dans le cadre du péojet medWet 2.
- Atelier international sur le Plan d'Action pour la Conservation de l'Ibis chauve, Agadir (Maroc), 27-30 octobre 1997.
- Colloque international "Environnement, Etudes d'impact et développement durable", Settat (Maroc), 16-17 avril 1998.
- Wader Study Group Conference, Kesthelly (Hongrie) ; 16-19 octobre 1998.
- Conférence Internationale sur les Zones Humides ; Dakar (Sénégal) ; novembre 1998.
- Atelier sur le Plan d'Action pour la Conservation du Courlis à bec grêle, Alexandroupolis (Grèce), novembre 1998.
- Rencontre du réseau MAB arabe, Agadir (Maroc), 4-9 septembre 1999.
- Colloque international sur *le local et le développement durable* dans les Jbala, Chefchaouen (Maroc), 23-26 septembre 1999.
- Workshop Projet MECO, 23-28 sept. 2000, Rabat.
- 3<sup>ème</sup> Conférence de l'Union des Ornithologues Européens, 21-25 août 2001, Groningen (Pays-Bas).
- Assemblée Générale de l'Union Européenne de Baguage d'Oiseaux, 26-27 août 2001, Collumroord (Groningen, Pays-Bas).
- Premier congrès international sur le management de la qualité dans les systèmes d'éducation et de formation, Rabat, 14-16 avril 2004.
- Atelier nord-africain sur les zones humides, Rabat, 16-17 juin 2004.
- Autres.

## Participation à des Ateliers et Congrès nationaux

Plus d'une centaine (non inventoriés).

## Publications : livres, articles et rapports d'expertise

(Rapports d'Étude d'Impact Environnementale, Communications/conférences/posters inédits exclus)

1. **Dakki M.** (1978). Sur la présence de la Loche de rivière dans le Causse moyen-atlasique. *Bull. Inst. Sci.*, Rabat., 3, 185.
2. **Dakki M.** (1978). Le genre *Hydropsyche* au Maroc. *Bull. Inst. Sci.*, Rabat., 3, 111-120.
3. Thomas A.G.B. & **Dakki M.** (1979). Ephéméroptères d'Afrique du Nord. 1- *Ecdyonurus rothschildi* Navás, 1929. Description des imagos. *Annls Limnol.*, 14, 3, 197-201.
4. **Dakki M.** (1979). *Recherches hydrobiologiques sur un cours d'eau du Moyen Atlas (Maroc)*. Thèse doct. 3ème cycle, Marseille, 126 p.
5. **Dakki M.** & Giudicelli J. (1979-80). Ephéméroptères d'Afrique du Nord. 2. Description d'*Oligoneuriella skoura* n.sp. et d'*Oligoneuriopsis skhouname* n. sp., avec notes sur leur écologie (Ephem. Oligoneuriidae). *Bull. Inst. Sci.*, Rabat, 4, 13-28.
6. **Dakki M.** (1979-80). Contribution à la connaissance des Leptocérides (Trichoptera) du Maroc. *Bull. Inst. Sci.*, Rabat, 4, 41-52.
7. **Dakki M.** & Malicky H. (1979-80). Dreie neue Köcherfliegen (Trichoptera) aus Marokko. *Z. Arbeits. Osterr. Entomol.*, 31 Jg, 3/4, 103-106.
8. Giudicelli J. & **Dakki M.** (1980). Les *Agapetus* du Maroc : description de deux espèces nouvelles (Trichoptera, Glossosomatidae). *Bijdragen tot de Dierkunde*, 50, 1, pp. 227-234.
9. **Dakki M.** (1981). Peuplements d'Invertébrés des eaux continentales : composantes faunistiques globales. *Attabea*, 39, 39-57.
10. **Dakki M.** (1981). Peuplements des principaux types de biotopes d'eau courante. *Attabea*, 39, 59-65.
11. Aguesse P., **Dakki M.**, Gheit A. & Ramdani M. (1982). Les Hétéroptères aquatiques du Maroc. Inventaire commenté. *Bull. Inst. Sci.*, 6, 125-138.
12. **Dakki M.** (1982). Trichoptères du Maroc. *Bull. Inst. Sci.*, Rabat, 6, 139-155.
13. **Dakki M.** (1983). Notes sur trois Leptocérides (Trichoptera) du Maroc. *Bull. Inst. Sci.*, Rabat, 7, 177-178.
14. **Dakki M.** & El Agbani M.A. (1983). Ephéméroptères d'Afrique du Nord. 3- Eléments pour la connaissance de la faune marocaine. *Bull. Inst. Sci.*, Rabat, 7, 115-126.
15. Guidicelli J. & **Dakki M.** (1984). Les sources du Moyen Atlas et du Rif (Maroc) : Faunistique (description de deux espèces nouvelles de Trichoptères), Ecologie, Intérêt biogéographique. *Bijdragen tot de Dierkunde*, 54, 1, pp. 83-100.
16. **Dakki M.** & Tachet H. (1985). Les larves d'*Hydropsyche* (Trichoptera, Hydropsychidae) du Maroc. Poster présenté au "5th Intern. Symp. on Trichoptera", Lyon, août 1985.
17. Guidicelli J., **Dakki M.** & Dia A. (1985). Caractéristiques abiotiques et hydrobiologiques des eaux courantes méditerranéennes. *Verh. Int. Ver. Limnol.*, 22, 2094-2101.
18. **Dakki M.** (1985). Sur le choix des données en biotypologie des eaux courantes par l'analyse factorielle des correspondances. *Bull. Ecol.*, 16, 4, 285-296.
19. **Dakki M.** (1986). Biotypologie et gradient thermique spatiotemporels ; étude sur un cours d'eau du Moyen Atlas (Maroc). *Bull. Ecol.*, 17, 2, 79-85.
20. **Dakki M.** (1986). *Recherches hydrobiologiques sur le Haut Sebou (Moyen Atlas) : une contribution à la connaissance faunistique, écologique et historique des eaux courantes sud-méditerranéennes*. Thèse doct. d'Etat ès-Sciences, Univ. Mohammed V, Rabat, 216 p.
21. **Dakki M** & Thomas A.G.B. (1986) Rhithrogena ayadi n. sp., Ephéméroptère nouveau du Moyen Atlas marocain (Heptageniidae). *Annls Limnol.* 22, 1, 27-29.

22. Ramdani M., **Dakki M.**, Kharboua M. & El Agbani M.A. (1987). Les Gastéropodes dulcicoles du Maroc. Inventaire commenté. *Bull. Inst. Sci.*, Rabat, 11, 135-140.
23. **Dakki M.** (1987). Ecosystèmes d'eau courante du haut Sebou (Moyen Atlas) : études typologiques et analyses écologique et biogéographique des principaux peuplements entomologiques. *Trav. Inst. Sci.*, Rabat, série zool., 42, 1-99.
24. **Dakki M.** (Dir.) (1988). *La Grande Encyclopédie du Maroc*, Vol. Faune. Les Grandes Editions du Maroc, Rabat, 239 p.
25. **Dakki M.** & Bayed A. (1988). Les Vers (Plathelminthes, Némathelminthes et Annélides), les Urochordés et Céphalochordés. In : *La Grande Encyclopédie du Maroc*, vol. Faune, pp. 12-19 et 59-60.
26. **Dakki M.** (1988). Amphibiens, Reptiles, Oiseaux, Mammifères. In : *La Grande Encyclopédie du Maroc*, vol. Faune, pp. 81-176.
27. **Dakki M.**, El Agbani M.A. & Fekhaoui M. (1988). La faune des eaux douces. In : *La Grande Encyclopédie du Maroc*, vol. Faune, pp. 190-203.
28. **Dakki M.**, Arahou M., Mouna M. & Fraval A. (1988). La faune arboricole. In : *La Grande Encyclopédie du Maroc*, vol. Faune, pp. 204-211.
29. **Dakki M.** & Arahou M. (1988). La faune cavernicole. In : *La Grande Encyclopédie du Maroc*, vol. Faune, pp. 219-220.
30. **Dakki M.** & De Ligny W. (Eds) (1988). The Khnifiss Lagoon and its surrounding environment (Province of La'youne, Morocco). *Trav. Inst. Sci.*, Rabat, mém. h. s., 172 p.
31. **Dakki M.** & Parker D. (1988). The Khnifiss Lagoon and adjacent desert areas : geographical description and recent coastline changes. In : Dakki M. & Ligny, W.(de) (Eds) : *The Khnifiss Lagoon and its surrounding environment (Province of La'youne, Morocco)*. *Trav. Inst.Sci.*, mém. h. s., pp. 1-6.
32. Parker D. & **Dakki M.** (1988). The ecological significance of the Khnifiss Lagoon and adjacent desert and coastal areas (prov. La'youne, Morocco). In : Dakki M. & de Ligny, W. (Eds) : *The Khnifiss Lagoon and its surrounding environment (Province of La'youne, Morocco)*. *Trav. Inst. Sci.*, Rabat, mém. h. s., pp. 165-172.
33. Fekhaoui M., **Dakki M.** & Hammada S. (1988). Fonctionnement de l'Oued Sebou à l'aval de la ville de Fès : étude du peuplement d'algues benthiques. *Bull. Inst. Sci.*, Rabat, 12, 59-68.
34. Qninba A., El Agbani M.A., **Dakki M.** & Benhoussa A. (1988). Evolution saisonnière de quelques peuplements d'invertébrés benthiques de l'Oued Bou Regreg (Maroc). *Bull. Inst. Sci.*, 12, 149-156.
35. Benhoussa A., **Dakki M.**, EL Agbani M.A. & Qninba A. (1988). Dynamique et cycle biologique de quelques populations simulidiennes (Diptera, Simuliidae) du Bou Regreg (Plateau Central marocain). *Bull. Inst. Sci.*, Rabat, 12, 157-165.
36. Mellado J. & **Dakki M.** (1988). Inventaire commenté des amphibiens et reptiles du Maroc. *Bull. Inst. Sci.*, 12, 171-181.
37. Beaubrun P.C., Thévenot M. & **Dakki M.** (1988). Recensement hivernal d'oiseaux d'eau au Maroc : janvier 1987. *Doc. Inst. Sci.*, Rabat, 11, 15-37.
38. Beaubrun P.C., **Dakki M.**, El Agbani M.A. & Thévenot M. (1988). Recensement hivernal d'oiseaux d'eau au Maroc : janvier 1988. *Doc. Inst. Sci.*, Rabat, 11, 39-61.
39. **Dakki M.** (1989). Importance des zones humides marocaines pour les oiseaux migrateurs. In : *Ecologie et Gestion des Zones humides marocaines*. Rapp. inédit, Cours de perfectionnement organisé par la Dir. Eaux & Forêts. (Minist. Agriculture) & CIPO, Mehdia, 15-19 janvier 1989, pp.48-50.
40. **Dakki M.**, Baouab R. & El Agbani M.A. (1989). Recensement hivernal d'oiseaux d'eau au Maroc : janvier 1989. *Doc. Inst. Sci.*, Rabat, 12, 1-20.
41. El Agbani M.A., Baouab R. & **Dakki M.** (1990). Recensement hivernal d'oiseaux d'eau au Maroc : janvier 1990. *Doc. Inst. Sci.*, Rabat, 13, 1-26.
42. Menioui M., **Dakki M.** & Aguesse P. (1990). Une biotypologie des peuplements infralittoraux superficiels.

- ciels de Crustacés des côtes rocheuses marocaines. *Vie et milieu*, 40, 1, pp. 57-66.
43. **Dakki M.**, Baouab R. & El Agbani M.A. (1991). Recensement hivernal d'oiseaux d'eau au Maroc : janvier 1991. *Doc. Inst. Sci.*, Rabat, 14, 1-30.
  44. El Agbani M.A. & **Dakki M.** (1992). Recensement hivernal d'oiseaux d'eau au Maroc: janvier 1992. *Doc. Inst. Sci.*, Rabat, 15, 1-32.
  45. EL AGBANI M.A., **Dakki M.** & BOURNAUD M. (1992). Etude typologique du Bou Regreg (Maroc) : les milieux aquatiques et leurs peuplements en macroinvertébrés. *Bull. Ecol.*, 23, 1/2, 103-113.
  46. Arahou M., El Agbani M.A. & **Dakki M.** (1992). Typologie spatiotemporelle des peuplements d'Insectes frondicoles du Chêne vert dans le Moyen Atlas. *Bull. Inst. Sci.*, Rabat, 16, 102-111.
  47. Benhoussa A., Aguesse P. & **Dakki M.** (1993). Microdistribution larvaire de trois populations de simulies (Insecta, Diptera) de l'oued Bou Regreg (Plateau Central marocain). *Vie Milieu*, 43, 4, 247-253.
  48. Fekhaoui M., **Dakki M.** & El Agbani M. A. (1993). Faune benthique d'une rivière polluée du Maroc : l'Oued Sebou à l'aval de la ville de Fès. *Bull. Inst. Sci.*, Rabat, 17, 23-40.
  49. **Dakki M.** & El Agbani M.A. (1993). Recensement hivernal d'oiseaux d'eau au Maroc: janvier 1993. *Doc. Inst. Sci.*, Rabat, 16, 1-32.
  50. El Agbani M.A. & **Dakki M.** (1994). Recensement hivernal d'oiseaux d'eau au Maroc: janvier 1994. *Doc. Inst. Sci.*, Rabat, 17, 1-32.
  51. **Dakki M.** (1994). Projet Etude et Définition d'un réseau d'aires protégées du Maroc : Zones Humides continentales. Rapp. Inédit0, BCEOM-SECA (France), 110 p.
  52. Himmi O., Bayed A., El Agbani M.A. & **Dakki M.** (1994). Critère d'âge et détermination des stades larvaires chez les Culicides du Maroc. *Actes de la IVème Conférence Internationale des Limnologues d'Expression Française*, Marrakech - Maroc, 25-28 avril 1994.
  53. **Dakki M.**, Qninba A. & Benhoussa A. (1994). *Faune de Merja Zerga, avec étude spécifique des Oiseaux d'eau*. Rapp. inédit, CPCN, El Harhoura, 21 p.
  54. **Dakki M.** El Agbani B. & El Fellah B. (1995). *Méthodologie préliminaire MedWet d'inventaire des zones humides méditerranéennes : étude pilote au Maroc*. Rapport inédit, Wetl. Int., 54pp. + Fiches pour 20 sites.
  55. El Agbani M.A. & **Dakki M.** (1995). Recensement Hivernal de la Cigogne blanche au Maroc de 1990 à 1994. In : Biber O. et al. (Eds) : *Proceeding of the International Symposium on the White Stork (Western Population)*. 7-10 April 1994, Basel (Switzerland) : 87-88.
  56. **Dakki M.** & El Agbani M.A. (1995). Les zones humides marocaines importantes pour la migration des oiseaux et leur statut de conservation. (résumé). *Proc. Int. Conf. 'The conservation of wetlands in a north-south perspective : the East-Atlantic migration flyway'*. Junta de Andalucia/Friends of the Earth International (Wetlands Campain), pp 257-259.
  57. **Dakki M.** (1995). Morocco. In : N. Hecker & P. Thomàs-Vives (Eds) : *The status of Wetland Inventories in the Mediterranean Region*. IWRB (Slimbridge) & ICN (Lisbonne), pp. 110-113.
  58. **Dakki M.** & El Agbani M.A. (1995). Recensement hivernal d'oiseaux d'eau au Maroc: janvier 1995. *Doc. Inst. Sci.*, Rabat, 18, 1-32.
  59. **Dakki M.** & El Agbani M.A. (1995). The Moroccan Wetlands : diversity and human impact. In: C. Montes et al. : *Bases ecológicas para la restauración de humedales en la cuenca mediterránea*. Consejería de Medio Ambiente (España), pp. 299-307.
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# CURRICULUM VITAE

## **I. ETAT CIVIL**

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**Prénom :** Hamissou

**Grade :** Ingénieur des Eaux et Forêts ;

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**Date et lieu de naissance :** le 03 mai 1966 à Maradi (Rép. NIGER)



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## **II. DOMAINES MAJEURS DE COMPÉTENCE :**

1. Protection et conservation de la Biodiversité, Gestion de l'Environnement;
2. Gestion des Aires Protégées, et des Zones Humides ;
3. Aménagement et Gestion de la Faune, des ressources forestières et halieutiques ;
4. Aménagement et gestion des espaces naturels ;
5. Recherche Scientifique sur certaines espèces fauniques (Carnivores et Reptiliens) ;
6. Botanique forestière (espèces ligneuses) ;
7. Méthode de Planification Participatif, la Méthode Accélérée de Recherche Participative (MARP) et les Animations Rurales ; Jeux de rôles en modélisation d'accompagnement ;
8. Elaboration et gestion des projets et Gestion des Terroirs ;
9. Aménagement et récupération des terres dégradées, Défense et restauration des sols (DRS) ;
10. Formation sur les Textes réglementaires et législatifs régissant les Aires Protégées du Niger;
11. Formation des acteurs locaux (Elus, Populations, Agents Techniques, Enseignants, de l'Etat...) impliqués dans les activités de valorisation des ressources naturelles renouvelables en dans le Parc Régional W du Niger et sa périphérie.

## 12. Éducation environnementale

### **III. POSTES OCCUPES ET PRINCIPALES TACHES**

- **Depuis Janvier 2013**, Chef de division des Aires Protégées à la Direction de la Faune, de la Chasse et des Aires Protégées, Direction Générale de l'Environnement et des Eaux et Forêts, Ministère de l'Environnement, de la Salubrité Urbaine et du Développement Durable ;

A ce titre nous avons eu à mener des activités dans les domaines suivants :

- Inventaire Simplifié des Ressources Naturelles de la Réserve Naturelle Nationale de l'Aïr et du Ténéré (RNNAT) de janvier 2013;

- Etats des lieux de la Réserve Totale de Faune de Gadabédji (RTFG) et de la Réserve Naturelle Nationale du Termit et du Tin Toumma (RNNTT) de mai 2013;

- élaboration du dénombrement de la grande faune du Parc Régional W du Niger juin 2013;

- Elaboration du Plan d'aménagement, de Gestion et de Conservation de la RTFG d'août 2013;

- Préparation et Réalisation du Dénombre Annuel des Girafes du Niger "Edition 2013" ;

- Membre du Groupe d'experts pour l'élaboration de la Stratégie et Plan d'Action National pour la Conservation de la Biodiversité (SPANB) du Niger ;

- Membre du Groupe d'experts pour l'élaboration du 5<sup>ème</sup> Rapport sur l'état de Conservation de la Biodiversité au Niger ;

- Membre de la mission de l'Evaluation de l'état de conservation de la faune, des habitats et des menaces dans la Réserve Naturelle Nationale de l'Aïr et du Ténéré (RNNAT), Niger de Juin 2014 ;

- Suivi écologique de la Réserve totale de Faune de Gadabédji (RTFG) au Niger juillet 2014 ;

- Participant à la 25<sup>ème</sup> et 26<sup>ème</sup> session du Conseil International de Coordination (CIC) du Programme sur l'Homme et la Biosphère (MAB) de l'UNESCO de 2013 et 2014 ;

- Participant aux travaux de la commission des Sciences Naturelles de la 37<sup>ème</sup> Conférence Générale de l'UNESCO de Paris 2013.

**2010 à Décembre 2012**, Expert National en Renforcement des Capacités en Biodiversité du Projet Régional des Parcs "W-Arly-Pendjari" (WAP) pour la Composante Nationale du Niger :

Notre tâche consiste de façon globale à la conservation et la valorisation des ressources de la biodiversité du Complexe WAP pour leur utilisation durable à travers des Appuis /Conseils aux communautés actives au sein des zones tampon et de transition des Aires Protégées du Complexe WAP ;

A ce titre, nous avons en charge de façon spécifique respectivement le Résultat 2 « les Aires Protégées sont gérées efficacement et liées au niveau national » et le Résultat 3: Efficacité d'un mécanisme durable de coordination au niveau régional au sein du système WAP du Projet WAP; et de façon transversale, le Résultat 1: « Emergence de communautés soutenant une gestion durable des AP autour du complexe WAP »; et le Résultat 4 « Apprentissage, feedback et gestion adaptative sont assurés » ;

- Renforcer les Capacité des acteurs (Elus locaux, enseignants, populations locales...etc) impliqués dans la gestion du complexe WAP ;
- Contribuer à l'intégration de la conservation de la biodiversité dans les activités commerciales et financières des communautés locales de la zone du Complexe conformément aux objectifs attendus du Projet ;
- Collaborer avec les autres experts, les structures nationales et les divers experts dans le cadre de la mise en œuvre des thématiques centrales du projet WAP ;
- Contribuer à l'élaboration des différents plans d'aménagement et de gestion des ressources naturelles en matière de biodiversité et de gestion des Aires Protégées (AP) ;
- Collaborer avec les gestionnaires (Conservateurs, Chef de Section Protection et Surveillance, Chefs de Poste Forestiers, Agents et Ecogardes) du Parc Régional W du Niger pour la mise en place d'un dispositif de surveillance du Complexe WAP à l'échelle nationale et régionale à travers le renforcement des capacités techniques et opérationnelles des agents de surveillance du parc ;
- Appuyer les communautés locales dans la mise en œuvre de toutes les actions d'aménagement et gestion des ressources naturelles en matière de biodiversité et d'aires protégées;
- Assurer la promotion des différentes approches en matière de gestion des ressources naturelles à travers le renforcement des capacités des acteurs locaux ;
- Participer à la collecte et à l'analyse des données (inventaires des girafes, et des autres grands mammifères du Complexe WAP) scientifiques et à la gestion de la base de données du Projet WAP ;
- Contribuer à la promotion d'un dialogue intercommunautaire en faveur de la gestion durable des ressources naturelles conformes aux initiatives de développement local axées sur la conservation dans les zones tampon et de transition du Complexe WAP ;
- Coordonner et superviser la réalisation des travaux liés à la gestion des agro-systèmes ;
- Coordonner les activités des différents fournisseurs ou prestataires de services ; d'assistance technique (études, travaux, investissements) commis dans la mise en œuvre du projet;
- Participer au niveau national, au suivi et à l'évaluation de l'impact des actions du Projet ;
- Planifier les activités et élaborer les plans de travail annuel (PTA) et assurer leur mise en œuvre en étroite collaboration avec la Coordination Régionale du Projet ;

- Assurer la préparation, la bonne tenue des réunions des différents Comités Nationaux de pilotage (CNP) du projet et participer aux travaux des dits comités aux côtés du Coordonnateur National du Projet ;
- Participer au niveau régional, aux réunions des différents organes de pilotage notamment le Forum Régional (Février 2011 à Ouagadougou, le Comité Régional de Pilotage (CRP/CPR), Comité Technique de Suivi (CTS) de février 2011 et mai 2012, et au Comité Ministériel d'Orientation (CMO) de Cotonou de février 2012 comme observateur.
- Elaborer et transmettre régulière des différents rapports techniques et financiers (à la fin de l'exécution de chaque activité) et périodiques (trimestriels et annuels) aux différentes structures de supervision (Coordination Nationale WAP, Coordination Régional WAP, Direction de la Faune, de la Chasse et des Aires Protégées (DFC/AP), partenaires et acteurs locaux) ;
- Mettre en place un système d'évaluation des performances économiques des Aires Protégée basé sur l'utilisation des outils tels que :
  - Management Effectiveness Tracking Tools (METT)
  - Financial Scorecard (FSC)
  - Matrice du PNUD pour le Développement des Capacités (MDC) ;
- Contribuer à la Mise en place et à l'opérationnalisation d'une base de données géoréférenciée du Complexe WAP ;
- Elaboration et mise en œuvre de cinq (5) microprojets de valorisation de la biodiversité dans les villages riverains du Complexe WAP du Niger ;
- Catalyser l'implication des partenaires techniques et financières dans le montage de projets et la mobilisation de cofinancements ;
- Dynamiser les fora de concertation et se focaliser sur le développement de mécanismes d'alerte et de prévention des conflits ;
- Mettre en œuvre et capitaliser le processus de reverdissement des Plans Communaux de Développement (PCD/PDC) ;
- Redynamiser les opérations de patrouille régionale au niveau du parc du W, notamment par le renforcement du poste de surveillance du Point Triple ;
- Conduire l'inventaire aérien/ terrestre des éléphants et des autres grands mammifères ;
- Contribuer à l'édition 2011 du Dénombrement des Girafes du Niger et Analyse de la viabilité du complexe écologique WAP comme noyau potentiel de diffusion de la girafe du Niger ;
- Diagnostic du secteur du tourisme et étude de faisabilité pour la mise en place d'un produit touristique régional WAP inter-liant les produits locaux existants ;
- Contribuer à la réflexion et à la mise en place d'un mécanisme de financement durable des Aires protégées du WAP ;

- Initier les travaux de capitalisation des résultats du projet ;
  - Contribuer à Assurer une bonne circulation de l'information au sein du projet WAP à travers l'alimentation d'un site web et du système d'information ;
  - Contribuer à l'animation d'un bulletin d'information du Projet WAP ;
- De 2006 – 2008, Conservateur- Adjoint du Parc Régional du W du Niger :**
- À ce titre, j'ai été chargé de :
- Veiller à la gestion et au bon fonctionnement du Parc Régional W du Niger à travers la coordination et l'organisation des activités d'aménagement et de gestion du Parc W ;
  - Coordination et la conduite de la lutte anti braconnage dans le complexe Régional W et dans sa zone périphérique ;
  - Gestion des flux touristiques et la valorisation des ressources naturelles du Parc W ;
  - Conduite des actions de recherches sur les espèces fauniques emblématiques notamment sur les herbivores, le dénombrement des espèces de grands carnivores particulièrement le lion; le recensement des crocodiles et serpents ;
  - Collaboration et mise en œuvre de plusieurs programmes d'activités de certains projets et partenaires techniques et financiers tels que l'ONG « African Wildlife Foundation », le Programme Régional Parc W / ECOPAS (Ecosystèmes Protégés en Afrique Soudano-Sahélienne) ; Fonds pour l'Environnement Mondial (FEM) ; Man And Biospher (MAB) -UNESCO ; Point-Afrique ; E7 ; Africa 70 ...
  - Encadrement et la supervision des travaux des stagiaires (IPDR de Kollo) et étudiants (Université de Niamey ; Montpellier, IPR de Katibougou) sur le Parc W;
  - Formation des agents forestiers sur les différentes techniques de gestion et de conservation des aires protégées ;
  - Formation des élus locaux et des populations riveraines sur les modes de gestion des ressources naturelles ;
  - Formation des guides (Zone Girafe, Parc W) touristiques de Réserve de Biosphère du W ;
  - Appui- conseils aux apiculteurs de la région du W (Moli, Karey-kopto, Allambaré, Tamou, Waygorou...) ;
  - Conception du statut et règlement intérieur des écogardes ;
  - Gestion des conflits faune/ bétail domestique / populations de la zone périphérique ;
  - Sensibilisation des populations riveraines sur les enjeux de la conservation des aires protégées et de leur biodiversité;
  - Education environnementale à travers des projections des films dans les villages et l'organisation des visites guidées des scolaires et étudiants dans le Parc W ;
  - Suivi écologique du Parc W par la supervision et la réalisation des inventaires Fauniques (détermination des IKA, et les recensements) et Floristiques (identification des espèces);

- Marketing du Parc W à travers notre participation à plusieurs fora, rencontres, et autres festivals internationaux en vue de le faire connaître ; et enfin Représentation du Parc W du Niger;

**- De 2002 à 2003, Chef Section Protection et Surveillance du Parc Régional W Niger**  
À ce titre, j'étais chargé de :

- Assurer la protection et de la surveillance de l'intégrité territoriale du Parc W par la mise en place d'un dispositif de contrôle et d'occupation permanente du terrain ;

- Organisation et la conduite de la lutte anti braconnage dans le Parc W et sa périphérie ;

- Formation et encadrement des agents forestiers du Parc sur l'application et le respect de la législation en matière de gestion et protection de la biodiversité ;

- Formation et encadrement des guides accompagnateur du W ;

- Accueil et conduite des visites des missions officielles dans le Parc W ;

- Suivi écologique (comptage des animaux, suivi des populations animales) du Parc W ;

**- De 1998 à 2001, Encadreur au Projet Microréalisation à l'antenne du Département de Illela, Tahoua, Niger**

À ce titre j'ai été chargé de :

- Vulgarisation et formations des paysans en techniques agro- sylvo- pastorales à travers des Animations Rurales, la méthode de planification participative, ou par la méthode Accélérée de Recherche Participative (MARP) ;

- Encadrement des populations sur les travaux de Défense et restauration des sols, et la conservation des eaux du sol, la Récupération des terres dégradées, la Conservation et Protection des sols ;

- Elaboration et gestion des microprojets et Gestion des Terroirs,

**- De 1996 à 1997, Chef de service Adjoint de l'Environnement de l'Arrondissement de Tahoua et cumulativement Superviseur de zone du Programme Renforcement des Services d'Appui à l'Agriculture (PRSAA).**

A ce titre, nous avions assumé toutes les tâches dévolues au chef de service d'arrondissement de l'Environnement qui sont celles de la gestion de l'Environnement, de la protection et conservation de la nature au niveau de local. Nous avions également, pris part à la mise en œuvre du Programme PRSAA comme superviseur de zone dans le cadre de la polyvalence des agents du développement rural, à travers une philosophie de Training and Visit (T&V) basée sur des formations en techniques de vulgarisation agricole chaque quinzaine, des producteurs ruraux repartis dans des groupes de contact par village.

**- De 1992 à 1993, Chef de service Adjoint de la planification forestière et responsable des activités du Projet Energie Domestique II volet offre, à la Direction Départementale de l'Environnement (D.D.E.) de Tahoua.**

A ce titre, nous avions conduit les premières opérations d'aménagement forestier sur les

formations forestières à Acacia de bas fond (jusque là inconnues) à Tahoua (Nord Niger) avec la mise place d'un protocole de recherche sur ce type de formation végétale et l'exploitation proprement dite des forêts avec un plan d'aménagement et un parcellaire de coupe.

**- De 1990 à 1992, Chef Cellule Planification et Documentation de la DDE de Tahoua (Niger)**

- à ce titre, nous avions initié des recherches forestières sur l'accroissement des peuplements à Acacia dans la forêt de Guidan Ouhoumoudou (Tahoua) en vue de débuter les exploitations forestières.

**- De 1988 à 1990, Détaché à la Commission Nationale d'Abornement de la Frontière Niger / Burkina comme agent de sécurité :**

- À ce titre nous avons été chargés d'assurer la sécurité de la commission technique mixte d'abornement en dépit de notre appartenance au Corps des Eaux et Forêts dont la vocation est la préservation des milieux écologiques et des ressources naturelles

**- De 1986 à 1988, Chef de service adjoint des statistiques de pêche et pisciculture à la Direction de la Pêche et Pisciculture (DPP) du Ministère de l'Hydraulique et de l'Environnement.**

À ce titre nous sommes chargés d'établir des statistiques régulières des quantités de poissons pêchés dans le fleuve Niger et au niveau des autres points d'eau du Niger, afin de déterminer l'effort de pêche, et les espèces les plus exploitées. Nous avions eu aussi en charge, la gestion du centre de la documentation de la Direction de la Pêche et Pisciculture.

#### **IV. FORMATIONS ACADEMIQUES ET DIPLOMES OBTENUS**

Période	Etablissements Fréquentés	Diplômes obtenus	Mention
<b>2008-2009</b>	Institut International d'Ingénierie de l'Eau et de l'Environnement (2iE) Ouagadougou, Burkina Faso	Master Spécialisé en Gestion des Aires Protégées	Très Bien
<b>2003-2006</b>	Ecole National des Eaux et Forêts de Dindéresso, Bobo, Burkina Faso	Inspecteur (Ingénieur) des Eaux et Forêts	Assez-Bien
<b>1993-1995</b>	Institut Pratique Développement Rural de Kolo, Niger	Technicien de Développement Rural, Option Eaux et Forêts	Assez-Bien
<b>1984-1986</b>	Institut Pratique Développement Rural de Kolo, Niger	Brevet d'Etudes rurales comme Agent Technique des Eaux et Forêt	Assez-Bien
<b>1978-1984</b>	Collège d'Enseignement Général (CEG) de l'Humanité Tahoua	Brevet d'Etude du Premier Cycle (BEPC)	-
<b>1972-1978</b>	Ecole Quartier de Maradi	Certificat de Fin d'Etude du Premier Degré (CFEPD)	-

#### **V. FORMATIONS, STAGES PROFESSIONNELS ET VOYAGES D'ETUDES EFFECTUES**

- **Octobre 2013**, Formation à Abidjan (Côte d'Ivoire) sur la Formulation des indicateurs de la conservation de la biodiversité dans le cadre de l'élaboration des SPANB ;

- **Septembre 2013**, Dénombrement des Girafes du Niger “Edition 2013” ;
- **Juillet 2013**, Formation à Douala (Cameroun) sur la Formulation des indicateurs de la conservation de la biodiversité dans le cadre de l’élaboration des SPANB ;
- **Juin 2013**, Formation sur l’utilisation des Outils METT, FSC et MDC à Torodi durant 10 jours ;
- **Mai 2013**, Formation sur les Techniques du Suivi écologique dans le système National des Aires Protégées du Niger (SNAP) ;
- **Juillet 2012**, Dénombrement des Girafes du Niger “Edition 2012” ;
- **Mai 2012** : Recensement aérien Partiel de la faune du Complexe WAP composé des parcs W (Bénin, Burkina, Niger), Arly (Burkina), Pendjari (Bénin), Oti- Mandouri et Kéran (Togo), pendant 14 jours ;
- **Avril 2012**, formation à l’utilisation de l’outil de gestion Financière des Aires Protégées « Financial Scorecard (FSC) » à Niamey Niger ;
- **Avril 2012**, Formation sur les Techniques d’inventaire aérien du Programme “Monitoring for Illegal Killing Elephant ” (MIKE) ;
- **Mars 2012**, Formation sur la méthodologie et technique d’inventaire des grands carnivores des savanes Africaines au Parc National de la Pendjari, Bénin ;
- **Septembre 2011**, formation sur l’utilisation et la gestion de la base de données et du Système d’Information Géographique (SIG) de deux (2) semaines à Kombissiri, Burkina Faso
- **Août 2011**, Dénombrement des Girafes du Niger “Edition 2011” ;
- **Juillet 2011**, Formation sur l’utilisation du logiciel « Photoshop » pour les techniques d’identification des girafes ;
- **Février 2011**, formation à l’utilisation des outils « Management Effectiveness Traking Tools (METT) », « Financial Scorecard (FSC) » et de la Matrice du PNUD pour le Développement des Capacités (MDC) à Nattitingou, Bénin ;
- **Octobre 2010**, « 7<sup>ème</sup> Edition de la Formation en Economie et Politique de Gestion des Ressources Naturelles - MOGED 2010 » de deux (2) semaines à l’Université Senghor d’Alexandrie (Egypte) ;
- **Mai 2009**, Stage de fin cycle du Master Spécialisé ‘ en Gestion des Aires Protégées pour trois (3) mois au Parc Régional W du Niger sur le Thème « Estimation des valeurs des biens et services fournis par une Aire Protégée : Cas du Parc Régional W du Niger » ;
- **Janvier 2008**, participation au 2<sup>ème</sup> Séminaire International sur les Grands carnivores menacés à Maroua (Cameroun) du 31 janvier 2008 au 5 Février 2008;
- **Août 2008**, Participation aux cours sur la biologie du Guépard et gestion des conflits Homme / Carnivores au Centre International de Cheetah Conservation Fund (CCF), Otiwarangoo, Namibie ;
- **Décembre 2007**, Formation de six (6) jours à Abidjan sur la gestion des bases de données sur

- l'abattage illégal des Eléphants « Monitoring Illegal Killing Elephant » (MIKE) ;
- **Novembre 2007**, participation au 1<sup>er</sup> Congrès régional du groupe des spécialistes des crocodiles des pays Ouest - Africains tenu à la Tapoa (Niger) les 13, 14 , et 15 Novembre 2007;
  - **Juillet 2007**, participation en France au Festival ‘AFRIKABIDON’ pour la popularisation des destinations touristiques du Sud (Afrique de l'Ouest) pendant 4 semaines;
  - **Avril 2007**, Voyage d'étude avec les élus locaux de la Réserve de Biosphère du W dans la Réserve de Biosphère de la Pendjari dans le cadre du programme MAB-UNESCO ;
  - **Février 2007**, formation de deux (2) semaines à Bobodioulasso, Burkina Faso organisée par MAB-UNESCO sur les jeux de rôle qui est une méthode d'approche en milieu rural ;
  - **Novembre 2006**, participation au 1<sup>er</sup> séminaire international sur les grands carnivores tenu à Maroua et Garoua au Cameroun du 15 au 18 novembre 2006;
  - **Juin 2006**, Participation au 18ème Congrès Mondial du Groupe des spécialistes des crocodiles à Montélimar (France) du 19 au 26 juin 2006;
  - **De janvier à juin 2006**, Stage de fin de cycle au Parc Régional W du Niger pour l'obtention du diplôme d'inspecteur (Ingénieur) des Eaux et Forêts sur le thème ‘la prédatation du bétail domestique par les grands carnivores dans la zone périphérique du Parc Régional W du Niger’ ;
  - **Août 2005**, Stage de deux (2) mois en France, dans la Réserve Naturelle des Gorges de l'Ardèche sur le système de gestion des flux touristiques au niveau des aires de bivouac ;
  - **Août 2004**, Stage de deux (2) mois en France, sur les procédures de gestion et de sauvegarde des espaces protégés en France : cas de la Réserve Naturelle des Gorges de l'Ardèche ;
  - **Juillet 2003** : Voyage d'étude de 10 jours en France dans la Réserve Naturelle des Gorges de l'Ardèche, pour un partenariat et jumelage avec le Parc Régional W du Niger ;
  - **Juin 2003**, Voyage d'étude de deux (2) semaines dans le complexe W (Bénin, Burkina Faso), au Parc National d'Arly et à la Réserve de Biosphère de la Pendjari ;
  - **Avril 2003** : Recensement aérien de la faune du complexe WAPOK composé des parcs W (Bénin, Burkina, Niger), Arly (Burkina), Pendjari (Bénin), Oti- Mandouri et Kéran (Togo), pendant 20 jours ;
  - **Mars 2003** : Formation de 7 jours sur l'utilisation du cyber-traker et les techniques de maîtrise des animaux sauvages dangereux, au Parc Régional W du Niger ;
  - **Juin 2000**: Formation de 10 jours à Tahoua (Niger) sur les Oiseaux Migrateurs et sur les zones humides d'importance internationale organisée par le programme OMPO / France ;
  - **Mars 1998**, Séminaire atelier de 5 jours sur la diversité biologique à Tahoua organisé par le PNUD ;
  - **Septembre 1997**, Formation sur les Méthodes de Planification Participative (MPP) et sur la Méthode de Recherche Accélérée (MRAP) pendant deux (2) semaines à l'IPDR / Kollo, Niger ;

- **De septembre 1996 à octobre 1998** : formations continues sur la vulgarisation avec le Système T & V (Training and Visit) en matière de développement rural dans le cadre du Programme de renforcement des services d'appui à l'agriculture (PRSAA) à Tahoua, Niger.
- **Septembre 1995**, Stage de mémoire de fin de cycle, pour 5 mois sur les aménagements forestiers sur le thème : Contribution à l'élaboration d'un plan de gestion locale du massif forestier de l'Unité Centre-Est (des villages de Bangali, Kandoum, Moriban, Djilé Kwara, et Damana) Filingué, Niger ;
- **Juin 1994**, Stage de trois (3) mois au Projet d'Aménagement des Terroirs de Dosso (NIGER) sur le Diagnostic et l'analyse du terroir Villageois de Kôfouno, Birni Gaouré (NIGER) ;
- **Décembre 1992**, Formation de deux (2) semaines en techniques et méthodes d'approche en milieu rural appelées méthode « CESAO » à Say, Niger ;
- **Avril 1991**, Formation de deux (2) semaines en techniques et méthodes d'approche en milieu rural appelées méthode « GRAAP » à Tahoua, Niger ;
- **Décembre 1989**, Recyclage de 2 semaines en techniques de pêche et pisciculture à l'IPDR Kolo.
- **Novembre 1988**, Formation de 2 mois pour l'obtention du brevet militaire de parachutiste, à la compagnie des Parachutiste de Niamey, Niger ;
- **Octobre 1986**, Service militaire de 45 jours au Centre d'Instruction de Tondibiah, Niger ;
- **Juillet 1986**, Stage de perfectionnement de deux (2) mois au Projet Intégré Keita sur les actions de fixation de dunes, récupération des terres et reboisement, Keita, Niger ;
- **Juin 1985**, Stage de perfectionnement de 3 mois sur les techniques de Production des plants forestiers en pépinière, au Département des recherches forestières (INRAN), Niamey, Niger.

## **VI. ATOUTS MAJEURS**

1. Grande aptitude à communiquer, à travailler en équipe et à négocier ;
2. Maîtrise parfaite du Français ; Parle passablement l'anglais ; Parle parfaitement le Haoussa et passablement le Zarma principales langues du Niger;
3. Maîtrise de l'outil informatique (Words, Excel, Power Point, Photoshop, Arcview, Arc-GIS et internet ...) ;
4. Permis de conduire B (Véhicule et Moto) depuis 1993;
5. **Pays visités** : Algérie, Bénin, Burkina Faso, Cameroun, Côte d'Ivoire, Egypte, France, Ghana, Guinée Konakry, Maroc, Mali, Namibie, Nigeria, Togo, et Sénégal.
6. Membre du Réseau Ouest et Centre Africain de Conservation de Lion (ROCAL) ;
7. Membre du Réseau mondial de conservation des Aires Protégées "WCPA" ;
8. Membre du Groupe des Spécialistes des Crocodiles (CSG)

## **VII. DOCUMENTS ECRITS**

1. Plan d'Aménagement, de Gestion et Conservation (PAGC) de la Réserve Totale de Faune

- de Gadabédji, République du Niger, PNUD, GEG, Projet Niger Fauna Corridor, 198p. ;
- 2. Rapport Technique d'Inventaire Simplifié des Ressources Naturelles de la RNNAT, République du Niger, PNUD, GEG, Projet COGERAT, 112p.
  - 3. Formation des Ecogardes du Parc régional du W Niger Module 1 sur l'Identification de certaines Espèces Animales et Végétales Emblématiques Présentes dans la Zone Humide de la Boucle du Fleuve Niger du Parc Régional W du Niger, 2012 ; 59p;
  - 4. Formation des Ecogardes de l'Aire Protégée du « W » Module 2 : La Biologie / Ecologie Général des Crocodiles, Hippopotames et Lamantins : Habitat, alimentation, reproduction, Quel lien entre ces espèces et leur habitat, 2012 ; 24p.
  - 5. Formation des Ecogardes de l'Aire Protégée du « W » Module 3 : Les différents outils et Méthodes de Suivi Ecologique, 2012 ; 21p.
  - 6. Formation des Ecogardes de l'Aire Protégée du « W » Module 4 Méthodes d'Exploitation et Conservation des Données Collectées, 2012 ; 8p.
  - 7. Formation des Agents de Surveillance du Complexe WAP du Niger Module 1 : Généralités sur la Gestion des Aires Protégées, 2<sup>ème</sup> Edition 11p. ;
  - 8. Formation des Agents de Surveillance du Complexe WAP du Niger Module 2 : Préparation et Organisation d'une Mission de Patrouille ; 2012 ; 14p.
  - 9. Formation des Agents de Surveillance du Complexe WAP du Niger Module 3 : Technique de Lutte Anti- Braconnage (LAB), 2012 ; 16p. ;
  - 10. Formation des Agents de Surveillance du Complexe WAP du Niger, Module 4: Technique de Collecte Des Données et d'Elaboration de Rapport de Patrouille, 2012 ; 10p. ;
  - 11. Formation des Agents de Surveillance du Complexe WAP du Niger, Module 5 : Les Textes Réglementaires Usuels Régissant les Aires Protégées au Niger, 2012 ; 12p.
  - 12. Formation des Agents de Surveillance du Complexe WAP du Niger, Module 6 : Procédures de Gestion des Contentieux en matière de Protection et Conservation de la Nature et La Rédaction des Procès Verbaux (PV) ; 2012 ; 17p. ;
  - 13. Formation des Agents de Surveillance du Complexe WAP du Niger, Module 7 : Utilisation du GPS et Technique d'orientation ; 2012 ; 7p.
  - 14. Formation des Agents de Surveillance du Complexe WAP du Niger, Module 8 : La Communication Radio dans une Aire Protégée ; 2012; 12p.
  - 15. Huit (8) modules (1<sup>ère</sup> Edition) de Formation des Agents de Surveillance du Parc Régional W du Niger et ses Zones Tampons sur la Lutte Anti-Braconnage (LAB);
  - 16. Présentation à la formation sur la biologie du guépard et la gestion des conflits entre les grands carnivores et le bétail domestique, Namibie, Août 2008 ;
  - 17. Document pour 19<sup>ème</sup> congrès Mondial du Groupe des spécialistes des crocodiles à Santa Cruz (Bolivie) sur « les Crocodiles du Parc Régional W du Niger, juin 2008 ; 32p

- 18.** Présentation à l'atelier sur l'efficacité de gestion des Aires Protégées, Pendjari, avril 2008;
- 19.** Rapport et Présentations au 1<sup>er</sup> Congrès sur le Statut du Guépard en Afrique de l'Ouest, Pendjari, mars 2008 ; 12p
- 20.** Rapport et une Présentation au 1<sup>er</sup> Congrès Ouest - Africain sur les crocodiles tenu à la Tapoa sur le Statut et distribution des crocodiles du Nil au Niger ; 2007 ; 15p
- 21.** Trois (3) Présentations et une publication aux séminaires internationaux sur les grands carnivores tenu à Maroua et Garoua (Cameroun) sur les conflits Carnivores / Bétail domestique dans la zone périphérique du Parc Régional W Niger en 2006 ; 2008 et 2009 ;
- 22.** Mémoire de fin cycle d'ingénieur des Eaux et Forêt sur la prédatation du bétail domestique par les grands carnivores dans la zone périphérique du Parc Régional W Niger, 2006 ; 74p
- 23.** Rapport et présentation au Congrès Mondial du Groupe des spécialistes des crocodiles à Montélimar (France) sur les crocodiles du Nil au Niger, juin 2006, 12p.
- 24.** La flore du Parc Régional W Niger dans le cadre de la formation des guides, 2002 ; 32 p.
- 25.** Mémoire de fin de cycle, 4<sup>e</sup> Année de l'IPDR sur la Contribution à l'élaboration d'un plan de gestion locale du massif forestier de l'Unité Centre-Est, Filingué ; 1995 ; 72 p.
- 26.** Rapport de stage sur Diagnostic et l'Analyse du terroir villageois de Kôfouno, 1994; 32 p.
- 27.** Fiches techniques sur les animations rurales en matière d'exploitation et gestion des ressources forestières au Niger, août 1991, Hamissou et Al., 20 p.
- 28.** Plan d'aménagement forêt de Guidan Ouhoumoudou, Tahoua, 1990, Hamissou & al. 60p.
- 29.** Rapport de stage sur la Production des plants forestiers en pépinière, 1985, 20p.
- 30.** Plan d'aménagement, de gestion et conservation (PAGC) de la RTFG, 2013, Hamissou & al. 191p ;
- 31.** Membre du groupe des Experts pour l'élaboration du Cinquième rapport national sur la diversité biologique au Niger ;
- 32.** Membre du groupe des Experts pour l'élaboration du Stratégie Nationale et Plan d'Actions en matière de Diversité Biologique (SNPA/DB), du Niger, Juillet 2014.

**Jure sur l'honneur que les informations ci-dessus fournies sont exactes et vérifiables**

Fait à Niamey, en août 2014

Signé, HAMISSOU HALILOU MALAM GARBA

# Curriculum vitae

Charlotte KARIBUHOYE SAID, PhD

- Birthdate : 05th March 1963
- Born in : Bujumbura – Burundi
- Address : Yoff Toundoup Ryia, No 11A - Dakar - Senegal
- Phone : 0021 33 860 29 35
- Mobile: 00221 77 570 51 71
- Email: [Charlotte.Karibuhoye@gmail.com](mailto:Charlotte.Karibuhoye@gmail.com)

## Professional experience

### **Since 2007 - Fondation Internationale du Banc d'Arguin FIBA<sup>1</sup>**

#### **Regional Programme Coordinator for Marine Protected Areas**

The main tasks related with this position include among others:

- Technical assistance and overall supervision of the programme for establishing and strengthening (institutionally and ecologically) the regional network of marine protected areas in West Africa RAMPAO<sup>2</sup>
- Overseeing the implementation and ensure synergy between the different projects of the program in the seven involved countries;
- Contributing to and coordination of the programme monitoring and evaluation activities;
- Ensuring capacity building of local and national partners of the program, including marine protected areas and network planning and management, community management, ...
- Partnerships development and contribution to FIBA program results dissemination and support to FIBA strategic development

### **2008 -2011: Regional Program for marine and coastal Conservation in West Africa (PRCM) Phase 2 - Conservation Component facilitator**

Key Responsibilities:

- Facilitate coordination of the activities implemented under the 13 component projects
- Promote synergies among the different projects within the conservaton component and with the other components of the programme (fisheries and integrated management)
- Technical support to the projects and to the programme coordination unit

### **2004 - 2007: Fondation Internationale du Banc d'Arguin (FIBA) - Regional Project Coordinator - Support project for MPAs establishment and strengthening**

Main tasks:

- Technical support to the protected areas agencies and institutions in charge of MPAs
- Capacity building of national MPAs teams
- Contribution to the monitoring and evaluation of the project impacts and of the status of MPA in the sub-region.
- Facilitate exchange of information and experience between the MPAs in the sub-region, communication strengthening and capitalization of the project results and experiences
- Ensure the technical and financial reporting of the project.

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<sup>1</sup> A swiss foundation working in the field of marine and coastal conservation and sustainable development in West Africa: Guinea-Bissau, Senegal, Mauritania, Gambia, Guinea, Cape Verde and Sierra Leone

<sup>2</sup> The RAMPAO network includes today 25 member MPAs from 5 West African countries (Mauritania, Senegal, the Gambia, Guinea-Bissau and Guinea); MPAs from 2 countries (Cape Verde and Sierra Leone) are still to be included

### **1998 - 2004: Independent Consultant - Training and Facilitation**

Main areas of intervention:

- Conservation and Natural Resource Management in West Africa
- Participatory management, monitoring and evaluation of projects and programs
- Strategic Planning
- Participatory management in organizations
- Strengthening rural organizations and associations
- Moderation/facilitation techniques
- Rural Youth and Rural Development....

### **1992 - 1999: NGO "Tiniguena" (Guinea-Bissau) - Program Coordinator / Support to Grassroots and local Initiatives**

Key Responsibilities:

- Coordinate support projects for local and sustainable development and management of natural resources in the coastal areas (southern Guinea-Bissau and the Bijagós archipelago)
- Support to local partners for participatory identification, development, monitoring and evaluation of project;
- Coordinate and ensure training of local « facilitators » assigned to different local development and natural resource management projects supported by Tiniguena
- Prepare technical notes and documents on ongoing projects for fundraising ;
- Support to the planning, development, implementation and monitoring of environmental awareness activities at the national level
- Support to the administrative and financial management of Tiniguena and representation of NGO management in different networks and other bodies.

## **Other professional activities**

Since 2009 - **IUCN World Commission on Protected Areas (WCPA)** - Regional Vice Chair for Central and West Africa

Since 2009 - **Université Cheikh Anta Diop de Dakar (UCAP)** /Institute of fisheries and aquaculture (IUPA) - Lecturer : MPA management

Since 2009 - **IUCN Programme on World Heritage sites** - Member of the scientific and technical panel

Since 2007 - **IUCN World Commission on Protected Areas / Marine Group (WCPA Marine)** - Regional Coordinator for West Africa

## **Education**

1988: DVM- Veterinary sciences - Faculty of Veterinary Medicine, University of Leipzig - (Germany)

2001: Master's degree in tropical and sub-tropical agricultural sciences/ Option : Conservation biology - Research Centre for Nature Conservation - University of Göttingen (Germany)

2005: PhD in Conservation Biology - Faculty of Biology – Research Centre for Nature Conservation - University of Göttingen (Germany)

## Languages

Langue	Spoken			Written			Read		
	Very good	good	fair	Very good	good	fair	Very good	good	fair
French	x			x			X		
Portuguese	x			x			X		
English	x			x			X		
Germany	x			x			X		
Spanish			x			x			x
Kirundi	x			x			X		
Kinyarwanda	x			x			X		
Kiswahili	x				x		X		
Portuguese Creole	x				x		X		

## Publications, communications and selected reports

- Johnson, D., Lee, J., Bamba, A., **Karibuhoye, C.** 2014 West African EBSAs: Building capacity for future protection. Journal of Coastal Research, Special issue No. 70, 2014
- **Karibuhoye C.** 2013. Ten years of support to MPA management in West Africa: progress achieved and lessons learnt. Presentation at IMPAC3
- **Karibuhoye C.** 2013. Les objectifs d'Aïchi pour la protection marine à l'horizon 2020 – Rêve illusoire ou cible réaliste pour l'Afrique de l'Ouest? – Presentation at the V. regional Forum on coastal and marine conservation
- Charbel Rizk, Julien Semelin, **Charlotte Karibuhoye** 2011. Guide méthodologique pour l'élaboration des plans de gestion des aires marines protégées en afrique de l'ouest. FIBA/PRCM, Dakar 2011
- P.R. Oyono Serigne M. Fall, **Charlotte Karibuhoye Said**, Abilio R. Said, Lamine Sidibeh, Marcel Sow 2012. Les sites naturels sacrés de l'ecorégion côtière et marine uest-africaine. Une Exploration et des Options de Reconnaissance Institutionnelle.
- Tendeng P., T. Ba & **C. Karibuhoye** 2012. Analyse des lacunes écologiques du réseau régional d'aires marines protégées en Afrique de L'Ouest RAMPAO. FIBA/RAMPAO/CSE. Rapport final. Dakar.
- N. Lopoukhine, N. Crawhall, N. Dudley, P. Figgis, C. Karibuhoye, D. Laffoley, J. Miranda Londoño, K. MacKinnon and T. Sandwith. Protected areas: providing natural solutions to 21st Century challenges. Sapiens, 5.2 (2012), Vol.5 / n°2 - IUCN Commissions.
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Meeting Global Goals at Regional Scales and in the High Seas. In C. Toropova , I. Meliane, D. Laffoley, E. Matthews and M. Spalding (eds.) Global Ocean Protection: Present Status and Future Possibilities. Brest, France: Agence des aires marines protégées, Gland, Switzerland, Washington, DC and New York, USA: IUCN WCPA, Cambridge, UK : UNEP-WCMC, Arlington, USA: TNC, Tokyo, Japan: UNU, New York, USA: WCS 96pp

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- **Karibuhoye C. 2010.** Delivering on CBD Targets in West Africa – Lessons learnt, challenges and next steps. The regional program for the conservation of the coastal and marine zone: From National to Regional: building a network of MPAs in West Africa. CBD SBSTTA 14 meeting, Nairobi, May 2010
- **Karibuhoye C. 2010.** Programme régional de conservation de la zone marine et côtière PRCM – Composante Conservation – Rapport annuel 2009. Dakar
- **Karibuhoye, C.** and Ould Senhoury, A.2009. "Towards the coordinated transboundary conservation of marine species and habitats at regional scale in West Africa" Paper presented at the annual meeting of the International Marine Conservation Congress, George Madison University, Fairfax, Virginia, May 17, 2009
- **Karibuhoye C. 2009.** Constraints and benefits of regional networks of marine protected areas managers – The experience of the network of MPAs in West Africa - RAMPAO . IMCC – IMPAC2 - Workshop on regional networks of MPA managers – Washington, May 2009
- **Karibuhoye C. 2009.** Importance of political commitment in the establishing of regional MPA network -Lessons learnt from the West African experience. IMCC/MPA-U- Principles and practices of establishing MPA networks- Washington, May 2009
- **Karibuhoye C. 2009.** Programme régional de conservation de la zone marine et côtière PRCM – Composante Conservation – Rapport annuel 2008. Dakar
- Senhoury A. , Batieno J.A.B., **Karibuhoye C.**, Sane Diouf K., Mame Dagou Diop, Quenum L. 2009. Programme régional de conservation de la zone marine et côtière PRCM –Rapport annuel 2008. Unité de coordination du PRCM. Nouakchott 2009
- **Karibuhoye C. 2008.** Bénéfices et rôle des communautés locales dans les AMP . Cadre de concertation AMP Tristao et Alcatraz – Katfoura 25-27/04/2008
- **Karibuhoye C. 2008.** Mise en place du réseau régional d'aires marines protégées en Afrique de l'Ouest – RAMPAO - Une stratégie régionale pour les AMP en Afrique de l'Ouest. In : UICN 2008. Actes du 1er Colloque national sur les aires marines protégées :

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- **Karibuhoye C.** 2006. L'appui à la gestion des Aires Marines Protégées ; L'exemple du Programme Régional de Conservation de la zone Marine et Côtière d'Afrique de l'Ouest - PRCM - Atelier sur l'évaluation de l'efficacité des Aires protégées d'Afrique de l'Ouest UICN/WCPA- Ouagadougou 01-03/05/2006
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- **Karibuhoye, C.** (2005): Mammal conservation status and prospects for community-based wildlife management in coastal Guinea-Bissau, West Africa. PhD thesis, Georg-August-University Goettingen.
- **Karibuhoye C.** 2001. Monitoring des primates et des calaos en forêt tropicale. résultats et expériences avec la méthode du 'distance sampling' dans les forêts classées du sud est de la côte d'ivoire., , Allemagne, p. - 105, (2001). Universität Goettingen, Germany
- **Karibuhoye C.**, K. Eulenberger et J. Schultz 1990. Motricité utérine et dosage de quelques hormones du plasma sanguin chez la vache gestante après administration de Clenbutérol. Revue de Médecine Vétérinaire, Volume 4 / Tome141, 267-273.
- **Karibuhoye Charlotte**, Gutjahr, St., Eulenberger, K., (1988). Geburtsverz"gerung mittels Clenbuterol pro inj. beim Rind. Tierhyg.-Information, Sonderheft. Eberswalde, 54-60.

## KIRUBEN NAICKER

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[Knaicker@environment.gov.za](mailto:Knaicker@environment.gov.za)/[Kiruben@gmail.com](mailto:Kiruben@gmail.com)

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**Career Objective:** A highly-qualified, experienced and detail-oriented Conservation Biologist pursuing a challenging and rewarding responsibility where I can utilise my academic and Biodiversity Planning experience and contribute to the Earth's ecological balance in a professional working environment whilst affording me the opportunity to progress personally and professionally.

### Key Skills / Attributes:

- Knowledge of the concepts, and principles of Biodiversity, including Conservation, Climate Change and Sustainable Development and their application in Multidisciplinary Stakeholder Liaison Management.
- Research-oriented and inquisitive, able to initiate continuous educative efforts to analyze cross-sector policy objectives and to relate any new discoveries to interested parties/stakeholders.
- Effective management capabilities, able to relate well with colleagues at all levels and engender loyalty among them to harmonise performance and achieve targets.
- Adept at organising and prioritising workloads to maximise productivity without compromising quality; able to work well through deadlines and stressful situations.
- Excellent communication and PR skills, able to relate well with stakeholders across all levels; can also help maintain the positive image of an organisation.

### Education & Qualifications:

2004 – 2005 MSc: Conservation Biology  
Durrell Institute of Conservation and and Tourism: Resource Economics of  
Ecology, University of Kent, Canterbury, Himalayan Biodiversity  
United Kingdom

Dec. 1998 MSc: Cryoconservation  
Univ. of Witwatersrand, SA

1993 – 1998 Bachelor of Science & BSc (Honours):  
Univ. of Witwatersrand, SA Biotechnology

### Professional Experience / Career Profile:

December 2013-Present

Department of Environmental Affairs,

**Director: Science Policy Interface**

South Africa

- Establishment and management of a national Intergovernmental platform on Biodiversity and Ecosystems Services (IPBES) Hub

- Serve as the National focal point for the development and implementation of the National Biodiversity Research Strategy
- Serve as the focal point for the global IPBES programme of work and coordinate and position IPBES in other related international obligations.
- Project Manage key strategic projects and programmes to promote conservation and sustainable use of natural resources.

Feb. 2007 – November 2013

**Head: Biodiversity Planning**

Department of Environmental Affairs, South Africa

- Implement Multilateral and Bilateral Environmental Agreements.
- Manages Donor funding and GEF funded projects.
- Responsible for Management: Mainstreaming Biodiversity into the following production sectors:
  - Mining
  - Development
  - Agriculture
  - Water
  - Transport
  - Rural Development
  - Energy
  - Ecosystem Services
- Responsible for cooperative governance through the development of the following technical tools /mechanisms:
  - Local Government (Local Action for Biodiversity Program/ National Local Municipal Program)
  - Socio cultural economic drivers
- Develop a suite of tools for Biodiversity planning:
  - Guidelines/norms/standards
  - Fiscal reforms:
    - Incentives
    - Payment for ecosystem service
    - Ecosystem profiles/spatial assessments
    - Listing of ecosystems, stewardship and offsets
    - Framework/country position papers for biological planning (Convention on Biological Diversity, SBSSTA and other Expert Adhoc Working Groups)
- Coordinate research findings from various sectors, working the science policy interface to inform policy reform and development.

**Achievements:**

- National TEEB (Economics of Ecosystems and Biodiversity).
- National Business and Biodiversity Initiative

- Informed the development of the business case for Biodiversity underpinning the sector contributions to the Green Economy.

Feb. 2006 – Apr. 2006  
Thames Valley Area,  
United Kingdom

**Volunteer work**

- Encouraging Businesses and domestic householders to embrace a greener philosophy.

May 2005 – Feb. 2006  
Gillette Advanced Technology Centre  
United Kingdom

**Contractor**

- Provided product testing and consumer feedback analyses.

Jan. 2001 – Aug. 2004  
Department of Agriculture, Conservation and Environment, and Land Affairs,  
Gauteng, South Africa

**Assistant Director: Scientific Services,  
(Scientific Authority for Gauteng)**

- Coordinate research for scientific decision support to senior policy makers.
- Responsible for the following conservation solicitations:
  - Environment
    - EIAs
    - Scoping Reports
    - Specialized Studies
  - Resource Protection
    - Permit evaluation (Imports/Exports)
  - Other conservation solicitations.
- Supervised research endeavours, scientific assessments and reactive management in the following areas:
  - Flora and Fauna
  - Ethno botany
  - Mammology
  - Ornithology
  - Herpetology
  - Invertebrates
  - Biodiversity Information Management
- Main Research Interests:
  - Feasibility study for the development of a spatial Climate Change Threat layer for the systematic conservation plan of an urban province (Gauteng).
  - Resource economics of land use change.

**International Governance and Technical Representation of the South African Government**

June 2014	SBSTTA 18, IPBES focal point, Montreal, Canada
July 2014	Visiting scientist, the 7 <sup>th</sup> Sino-German Workshop on Biodiversity Conservation Challenges in Water Quality and Quantity, and the EU-China TEEB meeting, Shenyang, Beijing, China
December 2013	Expert Group on Biodiversity for Poverty Eradication and Development, Chennai, India
November 2013	World Forum on Natural Capital, Edinburgh, UK
October 2013	3 <sup>rd</sup> Global Partnership Meeting for Business and Biodiversity, Montreal, Canada
May 2013	7 <sup>th</sup> Trondheim Conference on Biodiversity, Norway
May 2013	TEEB Country Studies, International Workshop, Isle of Vilm, Germany
Oct 2012, Hyderabad, India	Convention on Biological Diversity 11 <sup>th</sup> Conference of the Parties (COP 11)
Sept 2012 Cambridge, United Kingdom	14 <sup>th</sup> Annual Bioecon Conference on Resource Economics, Biodiversity Conservation and Development
Sept. 2012 Jeju, Korea	IUCN World Conservation Congress
Dec. 2011 Tokyo, Japan	1 <sup>st</sup> Business and Biodiversity Meeting
Nov. 2011 Montreal, Canada	Subsidiary Body on Scientific, Technical and Technological Advice
Jan. 2011 Montpellier, France	1 <sup>st</sup> Implementation Meeting on the Plan of Action for Sub national Governments, Cities and other Local Authorities for Biodiversity

2010 Nagoya, Japan	Convention on Biological Diversity, Conference of the Parties (COP 10)
Jul. 2010 London, UK	1st Business of Biodiversity Symposium
Mar. 2010 UN- Habitat, Rio de Janeiro	World Urban Forum
Jan. 2010 Curitiba, Brazil	Global Partnership on Cites and Biodiversity, and Launch of International Year of Biodiversity, Convention on Biological Diversity Meeting
Jul. 2009 Havana, Cuba	Ministerial Delegation, Environment Congress
Jun. 2009 Edmonton, Canada	ICLEI, World Congress

### **Research Missions and Presentations of Scientific Research**

Aug. 2008 Australia	Intergovernmental Mission, Management Effectiveness and governance
1999 Sweden, Denmark and Norway	Mission on Genetic Resources in Nordic Countries
2000 Colorado, USA	Visiting Scientist, United States Dept. of Agriculture
2004 Jersey, UK	Study Tour, Durrell Wildlife Conservation Trust
2004	World Travel Market, London, UK
2005 Himalayan Highlands, India	Research Mission on the Resource Economics of the Tourism Industry and Environment
2008 Tennessee, USA	Invited guest speaker: South Africa's National Biodiversity Framework for

	Biodiversity Conservation & sustainable development , Society for Conservation Biology
2008	Invited guest speaker: Managing the Millennium Development Processes, MDG conference, CSIR
2008 Eskom, South Africa	Mainstreaming Biodiversity Planning into Energy Industries
2007	Biodiversity Accounting: Development of carbon trading, competitiveness, and fiscal incentives for Biodiversity Conservation and Sustainable Development, EMAN
2007	Biodiversity and Climate Change at the local Level: Municipalities as implementers of Climate Change Adaptation, Municipal Forum and the University of Pretoria
Jul.- Aug. 2004 New York, USA	Invited Guest speaker and chair-Society for Conservation Biology 18 <sup>th</sup> Annual Meeting, Columbia University
2002 Cairo, Egypt	Visiting Fellow and invited speaker, Sultan Qaboos University, Muscat, Oman; Invited fellow and key note address speaker, Third Word Network of Scientific organisations, Promoting Best Practices for Conservation and Sustainable Use of Biodiversity of Global Significance in Arid and Semiarid Zones in the Developing World

#### Awards /Achievements:

- British Chevening Scholarship, 2004
- Merit Award, Edward Roux Scholarship (1993-1998)
- Introduction of Cryopreservation as a Cutting Edge Technique for the preservation of South African germplasm.
- Developed the concept of a climate change spatial layer for the systematic conservation plan of Gauteng which won the Premiers Award in 2005; Brain child of the Biodiversity and Climate Change Initiative in South Africa. Brain child of the Grasslands Conservation initiative in South Africa, which is now

a GEF funded program in South Africa; Championed the South African hosting of the 21<sup>st</sup> annual Society for Conservation Biology meeting in Nelson Mandela Bay, PE; Champion for the Business and Biodiversity and TEEB Initiative in South Africa, underpinning the sector response to the Green Economy.

- Awarded incentive bonuses for outstanding effectiveness and productivity; represented the South Government as a Biodiversity Technical Expert at several unilateral and multilateral meetings.

#### **Membership in Professional Bodies:**

- Society for Conservation Biology
- Steering Committee on Mining and Biodiversity (SAMBF)
- Steering Committee of the Grasslands Program
- Steering Committee of the Global Pollination Project
- Steering Committee of the GEF funded Project on Ecosystem Services (CSIR)
- Steering Committee of the Bioregional Programs
- Millennium Assessment, Sub Global assessment Project (MA)
- CBD Ad Hoc Expert Working Group for Biodiversity and Development
- CBD Subsidiary Body of Scientific and Technological Advice (SBSTTA)
- Country Representative to the High Level Panel on Global Assessment of Resources for Implementing the Strategic Plan for Biodiversity 2011-2020.
- National focal point for the Intergovernmental Panel on Biodiversity and Ecosystem Services (IPBES)

#### **Personal Details:**

Nationality:	South African
Date of Birth:	November 16, 1969
Sex:	Male
Currently residing in:	South Africa

#### **References:**

1. Prof. B. Rajaratnam  
*Professor*  
**Stanford University, Stanford**  
Contact: 650.725.2625 [brajarat@stanford.edu](mailto:brajarat@stanford.edu)/[brajaratnam02@gmail.com](mailto:brajaratnam02@gmail.com)
2. Dr. Peter Bridgewater  
*Former Secretary General of the Ramsar Convention*  
**Global Garden Consulting**  
Contact: +44 7624 221 224 [admin@global-garden.net](mailto:admin@global-garden.net)
3. Wilma Lutsch  
*Director*  
**Biodiversity Conservation, DEA**  
Contact: 0826572322/[Wlutsch@environment.gov.za](mailto:Wlutsch@environment.gov.za)

# CURRICULUM VITA

## (C.V)



### PERSONAL DATA:

**Name** : Mohamed Mustafa Abbas  
**Date of Birth** : 1968  
**Place of Birth** : Omdurman – SUDAN  
**Nationality** : Sudanese  
**Martial Status** : Married  
**Profession** : Water Resources Engineer  
**Language** : Arabic, English  
**Address** : General Directorate of Policy, Planning and Projects  
Ministry of Water Resources and Electricity  
P.O. Box 878 Khartoum – SUDAN  
Tel.: + 249 912975698 Mobile  
E-mail: [moh\\_abb@hotmail.com](mailto:moh_abb@hotmail.com), [moh-abb@hotmail.com](mailto:moh-abb@hotmail.com)

### Academic Qualification:

- M.Sc. in Water Resources Engineering, Khartoum University, obtained by examination and dissertation, 2004.
- B.Sc. Honors in Civil Engineering (Second Class Division One) obtained by examination and dissertation 1996, Sudan University of Science and Technology.
- Short course in Decision Support System in River Basin Management (DSS-RBM), May-July 2009, UNESCO-IHE
- Diploma in Computer application and science, with very good degree.

### Software Experiences:

- **WEAP (Water Evaluation and Planning Model),**
- **RIBASIM (River Basin Simulation Model),**
- **RiverWare,**
- **MIKE Basin**

- **HEC-HMS**
- **Microsoft Office (Word, EXCEL spreadsheets, etc)**
- **Experience in Usage of internet (WWW) (e-mails, searching, etc)**

**Membership of Scientific and Professional Societies and Networks:**

- IPBES expert group scoping a thematic assessment on land degradation and restoration, to deliverable 3bi (Objective 3) of the IPBES work programme.
- Member of the Sudan engineering society.
- Member of the Sudan council of engineering.
- Member of the Institution of Civil Engineering, (ICE, 64020970), United Kingdom.
- Member of the Nile Basin Capacity Building Network (NBCBN).
- Member of the Decision Support System network
- Member of the Joint Permanent Technical Commission for Nile Water between Sudan and Egypt (January 2010-2013)
- Member of the Arab Water Council
- Member of the Board of Governors of the Arab Water Council for the 2013-2015 session
- Water Resources Specialist for the Mapping, Assessment and Management of Transboundary Water Resources Project in the IGAD Sub-Region.
- Water Integrity Ambassador, announced by Stockholm International Water Institute (SIWI)

**Professional Data:**

July 97 –Now: Ministry of Water Resources and Electricity:

**1. July 97 – July 98: Nile Water Directorate (Flood Forecasting Unit), working as water resources engineer.**

**Responsibilities:**

- Preparation of the hydrological yearbook published by Water Resources Directorate, Data Center. These books provide data on stage and discharges' concerning gauging stations situated at different location along the River Nile and its tributaries in measures, using QUATRO-PRO and EXCEL spreadsheet.
- Prepare a report in daily basis regarding the hydrological inflows of Nile River tributaries.

**2. July 98 – July 2006:** Technical Minister's Office, Ministry of Irrigation and Water Resources, working as water resources engineer.

**Responsibilities:**

- Technical scrutiny and summarizing of the technical data and information of the status of the water levels and discharges of the Nile River and its tributaries which are submitted to the Minister of Irrigation and Water Resources to know the day to day situation of the hydrology of the Nile.
- Participatory in the Integrated Water Resources Management project preparation for the ENSAP projects (such as Baro-Akobo-Sobat Multipurpose Water Resources Project (BAS), and conducting technical summaries to be submitted to the Minister of Irrigation and Water Resources.
- Participating with the technical team responsible for the updating of the Sudan National water policy and strategy.
- Water Resources Research works, to highlight the challenges that facing the water resources sectors and highlight the link between Biodiversity and Water Security in Sudan.
- Reviews the plans, and annual performance reports of the Ministry, and follow the implementation of the Sudan water policy.
- Evaluation and analysis of current and future water projects for the Nile Basin countries.,

**3. July 06 – July 2012:** Technical Director for the Minister's Office, Ministry of Irrigation and Water Resources.

### **Responsibilities:**

- Conducting technical summaries of all the technical reports which are submitted to the Minister regarding the ENSAP projects (such as Baro-Akobo-Sobat Multipurpose Water Resources Project (BAS), and the other projects), the shared vision that aiming at establishing a foundation for regional cooperation and creating an enabling environment for industries and action on the ground.
- Making technical comments on technical reports on the field of water resources management in close collaboration with Minister of Irrigation and Water Resources.
- Participating with the technical teams responsible for updating of the Sudan National water policy and strategy, and setting the Integrated Water Resources Management for Sudan.
- Setting Joint Integrated Water Resources Management between Sudan and Ethiopia, this work sponsored by UNESCO/Keizo Obuchi.
- Leading the engineers team and all others Information Technology (IT) engineers in the Technical Minister's Office and giving them all the necessary guidance's.
- Follow-up the performance reports which include:
  - o Introduction and situation analysis of Sudan water resources,
  - o Water Resources Management,
  - o Water utilization,
  - o Legal and institutional framework,
  - o Capacity building, and
  - o Communication and implementation.
  - o Review the progress of the budget performance.
  - o Share of Sudan of the Nile waters and the potential for irrigation projects.
- Responsible for providing planning, supervision, monitoring and evaluation of the Ministry of Irrigation and Water Resources activities.
- Carry out research on the development of water resources sector, highlighting the challenges that facing the water resources sectors and looking to solve the

increased pressures on water resources and wetlands, with the climate change and ecosystem loss and to provide a solution for the future.

- Monitoring and evaluation the overall activities of the Ministry every three months (progress report), and prepared it as a presentation to be discuss in the Ministerial council.
- Follow-up the studies and the on-going activities of the Nile Basin Initiative projects and prepare a brief summary for the Minister of Irrigation and Water Resources (the Nile-COM member and the EN-COM).
- Assistance in the preparation consultant's activities for the Joint Permanent Technical Commission for Nile Water between Sudan and Egypt, ensuring adherence to terms of reference and work plans.
- Participated in the project planning and management and follow-up the performance and solve problems that may accompany implementation.
- Participated in the preparation of short-term, long-term action plan, and the five year plan.

### **Projects that I managed, reviewed and supervised during my works in the Technical Minister's Office:**

- Major Irrigation Projects (target: Optimal utilization of the Nile waters, increase the irrigated area, increase of the hydropower, contribute to the diversification of crops, to fight poverty and achieve the MDGs, and to provide opportunities for employment).
- The provision of drinking water and environmental sanitation projects (target: to provide the necessary needs of drinking water for humans and animals, and to achieve balanced development).
- Sudan Water Strategies and Studies Projects
- Design automatic irrigation system in a pilot area in Kab-Elgedad scheme in Gezira scheme in Sudan.

### **Projects of the Joint Permanent Technical Commission (JPTC) for Nile Water between Sudan and Egypt, which I managed, reviewed, and participated in the studies and supervision:**

- Continuation of Jungle Canal Project,
- Reduce wastage of the swamps project in the Upper Nile
- Project to combat water Haycant weeds in the White Nile
- Owen falls dam in Uganda project
- Follow-up the implementation of the decisions of the Nile Water Commission with the executive organizations of both Sudan and Egypt
- Improving the gauging techniques of the Nile tributaries in Southern Sudan
- Follow-up withdrawal of Sudan and Egypt of the Nile waters according to Nile water 1959 agreement.

**Regional Projects and Technical programs that are managed by the Arab Water Council (as I am a Member of the Board of Governors of the Arab Water Council):**

- Participation in the preparation and review of water policy in the Arab countries, with respect to climate change, ecosystem, ecological services and biodiversity.
- Implementation of the regional project to improve water management and capacity building through the use of remote sensing technology with the participation of five Arab countries ( Egypt, Jordan, Lebanon, Algeria, Morocco), where the financial and technical support are from the World Bank, GEF, and USAID.
- Complete the study of the water situation in the Arab world.
- Capacity-building program in the field of community participation in water management in cooperation with regional and international organizations, universities and research centers.
- Participation in the preparation of Arab participation in the World Water Week in Stockholm, Sweden September 2013.
- Participation in the preparation of Arab participation in the World Water Forum 2015.

**4. July 1998 – Jan 2000:** Teaching assistant (part-time), University of Khartoum, Civil Engineering Department.

**Responsibilities:**

Assistant lecturer in hydraulic structure, faculty of civil engineering, University of Khartoum. I also involved in research and consultancy undergone by Khartoum University Consultancy Corporation, regarding water harvesting, and water security and biodiversity in Sudan.

**5. July 2012 - Now:** General Directorate of Policy, Planning and Projects, Ministry of Water Resources and Electricity.

**Responsibilities:**

- Responsible for the evaluation and monitoring for overall activities (plans, performance, and projects), also to follow the implementation of the Sudan water policy, and the Millennium Development Goals to our water supply and sanitation.
- Participating with the technical team responsible for the updating of the Sudan National water policy and strategy.
- Preparing the plan, and the performance reports with coordination with different sectors, which include:
  - o Introduction and situation analysis,
  - o Water Resources Management,
  - o Water utilization,
  - o Legal and institutional framework,
  - o Capacity building, and
  - o Communication and implementation.
- Final supervision, monitoring and evaluation of the overall activities of the Ministry of Water Resources and Electricity.
- Carry out research on the development of water resources sector, highlighting the challenges that facing the water resources sectors and providing modern techniques for solutions and cooperation, especially in the Eastern Nile Basin.
- Leading the engineers team and all others staff in the General Directorate of Policy, Planning and Projects (Water Resources Section) and giving them all the necessary guidance's.

**6. Intergovernmental Science-Police Platform on Biodiversity and Ecosystem Services (IPBES) expert group member for scoping a thematic assessment on land degradation and restoration, the scope of this**

**assessment on land degradation and restoration would cover the global status of and trends in land degradation, by region, and land cover type.**  
**The work program for the period 2014-2018.**

**Postgraduate Researches:**

**1. Field of research:** Peaceful Conflict Resolution

**Title of the Research:** Toward Cooperation in the Nile Basin Instead of Conflict 'Assessment of Opportunities for Joint Integrated Water Resources Projects between Sudan and Ethiopia'

Countries of study: **Switzerland, Ethiopia** (September –October 2005)

Name and address: Center for Security Studies

Host Institute: Swiss Federal Institute of Technology

ETH Zentrum SEI, CH-8092 ZURICH

Research supervisor: Dr Simon A. Mason, Senior Researcher, NCCR North South

[mason@sipo.gess.ethz.ch](mailto:mason@sipo.gess.ethz.ch)

Prof. Yacob Arsano, Addis Ababa University, [yarsano@ethionet.et](mailto:yarsano@ethionet.et)

Place of Field research: **Ethiopia (November 2005- January 2006)**

Addis Ababa University, (Dialogue workshops, Conflict-sensitive, explorative expert-interviews)

Sponsored by UNESCO/KEIZO OBUCHI Research Fellowships Programme – 2005, No.:1 LZF

**2. Field of research:** INTEGRATING CLIMATE CHANGE UNCERTAINTY TO THE DEVELOPMENT OF THE NILE BASIN (ICCUD-NILE) PROJECT

Phase 1: "Strengthening Regional Resilience to Cope With/Adapt with Climate Change Future Risks"

**Title of the research:** Eastern Nile water resource modeling: Impacts of climate change on Hydropower production

**Countries of Study:** Ethiopia, Sudan, and Egypt

**Name and address:** Nile Basin Capacity Building Network (NBCBN)

**Host Institute:** NBCBN, Cap-Net, UNESCO-IHE

**Regional research coordinator:** Dr. Mohamed Abdel Atti

**Scientific advisor:** Dr. Giuliano Di Baldassarre

**Regional and International Training Courses, Workshops, and Meetings:**

1. Environmental impact assessment of water related projects in dry regions, May 2-14, 1999 Cairo-Egypt.
2. Environmental hydrology for Arid and Semi-Arid regions, May-June, 1999 Cairo-Egypt.
3. Irrigation Management under Drought Conditions, 21-25 October 2001, Jordan-Amman.
4. Challenge Program on Water and Food, 2<sup>nd</sup> Nile River Basin, Kick-off workshop, 5-6 August 2003 Kampala, Uganda.
5. Sustainable Development of the Nubian Sandstone Aquifer – Global Environmental Facility (GEF), Nubian Aquifer meeting, RAF/8/036, 1-5 March 2004 Vienna – Austria.
6. African Pre-Conference, Water for Food and Ecosystems, 4-6 November 2004, Addis Ababa, Ethiopia. The Government of Ethiopia, the African Union, FAO and the Government of the Netherlands organized this conference, under the theme “Water for Food and Ecosystems: Make it Happen!”.
7. Water for Food and Ecosystems conference, 31 Jan. – 5 Feb. 2005, the Hague – The Netherlands.
8. Nile Capacity Building Forum on Water Development and Cooperation, 30 Jan – 3 February 2006 Addis Ababa – Ethiopia.
9. Water Pollution and Water Resources Management Workshop for Arabian Countries sponsored by the Ministry of Commerce and organized by Center for Environmental Education and Communications of SEPA of China from June 2 to 16, 2006, Beijing, the People's Republic of China.
10. Training course in Leadership Skills program, organized by International for Administrative and Technological (Sudan), in collaboration with Shaaban Development Company International Ltd (Kingdom of Saudi Arabia), 10-14 March 2007, Khartoum, Sudan

11. Environmental protection for Arabian countries sponsored by the Ministry of Commerce and organized by Center for Environmental Education and Communications of SEPA of China from June 15 to 29, 2007, Beijing, the People's Republic of China.
12. Regional Refresher Seminar on Institutional Development and Capacity Building Needs for Integrated River Basin Management, for UNESCO-IHE alumni working in the Nile Basin, 3 – 8 September, 2007 Delta Barrage, Egypt.
13. Saudi Water and Power Forum 2007, organized by CWC Associates Limited and have full support of the Ministry of Water and Electricity of Saudi Arabia, 3 – 6 November 2007, Jeddah, Kingdom of Saudi Arabia.
14. Discussion Forum on Wetlands and Poverty Identifying Lessons Learned and Best Practices, 2-18 April 2008.

*This Discussion Forum was done using DGroups:*

[www.dgroups.org/groups/cgiar/wetlands-poverty](http://www.dgroups.org/groups/cgiar/wetlands-poverty)

15. Training workshop on Designing a Results-Based Monitoring and Evaluation System for Sudan National Water Policy and Strategy, 19-22 May, 2008, Khartoum-Sudan. The NBI/Water Resources Planning and Management Project/Water Policy Component organized this training course.
16. Seminar on Integrated Water Resources Management (IWRM). The Joint Africa Institute (JAI), a partnership of the African Development Bank, the International Monetary Fund, and the World Bank, organized a seminar on “Integrated Water Resources Management”, 6-10 October 2008, Tunis-Tunisia.
17. Country-to-Country Exchange visits, by NBI/ Water Policy Component of the Water Resources Planning and Management Project, 13-17 October 2008, Kenya.
18. 11<sup>th</sup> International Workshop on Wadi Hydrology “Impact of Climate Change on Watershed Management”, organized by UNESCO Chair in Wadi Hydrology, UNESCO Office in Cairo, UNEP/ROWA, the Arab League Education, Cultural and Scientific Organization, the Islamic

Educational, Scientific and Cultural Organization and ACSAD, 12-18 July 2008, Amman-Jordan.

19. Represent Sudan in the 3<sup>rd</sup> Preparatory Committee (PrepComIII) meeting of the Ministerial Process of the 5<sup>th</sup> World Water Forum, 21-23, January 2009, Rome-Italy.
20. Regional Training Workshop on Best Practices for Water Harvesting and Small Scale Irrigation, under the Efficient Water use for Agriculture Production Project, Nile Basin Initiative, 15-17 February 2009, Cairo-Egypt.
21. Online Course on Decision Support Systems in River Basin Management, 11 May – 03 July 2009, UNESCO-IHE, Delft, the Netherlands
22. Mapping, Assessment and Management of Trans-boundary Water Resources Management in the IGAD Sub-region Project, National Review Workshop, 29-30 July 2009, Khartoum-SUDNA.
23. Saline-Agriculture Techniques in the Arid and Semi-Arid Region Workshop, organized by International Center for Saline-Agriculture, 25-29 October, 2009 Kuwait
24. Water Diplomacy; Sharing Water, Sharing Benefits, organized by Arab Water Academy, 11-13 October 2009, Abu Dhabi, United Arab Emirates.
25. World Bank Safeguards/Environment Training workshop, organized by the World Bank and Eastern Nile Technical Regional Office of the Nile Basin Initiative, 8-10 February 2010, Addis Ababa, Ethiopia
26. Flood Preparedness and Early Warning Project, Phase1, Flood Embankment Manual Workshop, organized by Eastern Nile Technical Regional Office, ENTRO, 16-18 February 2010, Khartoum, Sudan
27. The first meeting of the Joint Permanent Technical Commission for Nile Waters at its fiftieth session, 5 - 9 March 2010, Cairo, Egypt.
28. The second meeting of the Joint Permanent Technical Commission for Nile Waters at its fiftieth session, 26 - 31 December 2010, Khartoum, Sudan.
29. 2<sup>nd</sup> Istanbul International Water Forum, 3-5 May, 2011 Istanbul, Turkey
30. 1<sup>st</sup> preparatory meeting for the first meeting of the Joint Permanent Technical Commission for Nile Waters at its fifty one session, 11 - 12 February 2012, Khartoum, Sudan.

31. Course on Projects Need Assessment, Project Identification and Preparation of Development Plan, organized by Water Resources Planning and Management Project, Nile Basin Initiative, 25 April – 06 May 2010 Cairo, Egypt
32. Regional Training and Validation Workshop on Project Mapping, Assessment and Management of Transboundary Water Resources in the IGAD Region, 26 – 31 August 2010 Entebbe, Uganda
33. Water Diplomacy Program, first module “Sharing the Water – Sharing the Benefits”, 26-30 September 2010, organized by Arab Water Academy (AWA), Abu Dhabi, United Arab Emirates.
34. Regional Training Workshop Bio-Saline Agriculture Technologies and their Role in the Mitigation of Climatic Change in the Arab Region, 25-28 October 2010, Cairo, Egypt
35. Water Diplomacy Program, second module “Sharing the Benefits: Development of Skills and Practices”, 28 November – 3 December 2010, AWA, Abu Dhabi, United Arab Emirates.
36. Regional Training Workshop on Use of Satellite Imageries and Remote Sensing Techniques for Mapping, Integrated Water Resources Management and Water Resources Modeling, Organized by the project “Mapping, Assessment and Management of Transboundary Water Resources in the IGAD Sub-region, 11-15 January 2011, Nairobi, Kenya.
37. Regional Validation Workshop Project: Mapping, Assessment and Management of Transboundary Water Resources in IGAD Region, 17-19 January 2011, Nairobi, Kenya
38. Water Diplomacy Program, third module “Water Diplomacy beyond Water”, 27 February – 3 March 2011, AWA, Abu Dhabi, United Arab Emirates.
39. 2<sup>nd</sup> Istanbul International Water Forum, 3-5 May 2011, Istanbul, Turkey
40. Regional Validation Workshops on Project: Mapping, Assessment and Management of Transboundary Water Resources in IGAD Region, 22 - 24 June 2011, Addis Ababa, Ethiopia
41. Summer School training course on 'Integrated Water Resources Management', which was organized by Ministry of Water and Energy of

Ethiopia and the Federal Institute of Hydrology - German, 19 - 24 September 2011 Addis Ababa, Ethiopia.

42. National Stakeholder Interaction Workshop, organized by Ministry of Water Resources and Intergovernmental Authority on Development (IGAD) - Hydrological Cycle Observation System (HYCOS) Project, 9 - 10 January 2012 Khartoum, Sudan
43. 4th African Water Week, 14 - 18 May 2012, Cairo, Egypt
44. 1<sup>st</sup> Eastern Nile Planning Model (ENPM) National Workshop in Sudan, one of the workshop objectives is to develop a Geo-Database and Project Baseline Information for ENSAP Project, this includes floods, irrigation and drainage, power trade, watershed, JMP1 and Baro-Akobo-Sobat project. May 22<sup>nd</sup> - 24<sup>th</sup>, 2012 Khartoum, Sudan.
45. 3<sup>rd</sup> Nile Basin DSS Training workshop, 11-13 September, 2012, Khartoum, Sudan.
46. 4th Annual Training Workshop on the General Methodology of Corporate Performance Management, organized by Al-Abbasi Centre for Training and Human Resources Development In collaboration with The National Academy for Training, 18 February 2013, Elfatih tower, Khartoum, Sudan.
47. Training course in the use of the RiverWare modeling tool and the Eastern Nile RiverWare Model. This includes 24 hours of general training of simulation modeling and rule-based simulation and 16 hours of specific training on the Phase 1 RiverWare model developed for the Eastern Nile Regional Technical Office (ENTRO) of the Nile Basin Initiative. 14-18 July, 2013 Khartoum, Sudan.
48. Training Course on “Hydrological and Regional Climate Modeling Tools for Climate Change Risk Management in the Nile Basin”. This was under the NBCBN ICCUD-Nile Research Project. The course was organized by the Nile Basin Capacity Building Network in collaboration with Cap-Net and NFC-MWRI, 22<sup>nd</sup>-26<sup>th</sup> September 2013 Cairo, Egypt.
49. Training course on Nile-DSS, this activity is the contribution of the NBI as a partner to the climate change project. This activity is planned to be organized at NBI-SEC in Entebbe Uganda, October 2013.

50. Scientific Symposium: "Eastern Nile Cooperation: Opportunities for Regional Development", organized by Khartoum University and Addis Ababa University, 10<sup>th</sup> - 12<sup>th</sup> March, 2014 Khartoum, Sudan.
51. Water Integrity Learning Summit, "Accelerating Towards a Water Secure World", UNDP-Water Governance Facility together with UNDP Cap-Net, WaterNet, Water Integrity Network (WIN) and Stockholm International Water Institute (SIWI) implemented this summit during the period 29-30 April 2014 Lusaka, Zambia
52. The 2<sup>nd</sup> Arab Water Conference and Exhibition 2014, 'Towards the Regional Management of Water Resources in Arab Countries Sustainable and Creative Solutions to Meet Current Challenges', under the patronage of His Excellency Sheikh Abdullah Bin Nasser Bin Khalifa Al Thani the Prime Minister and Minister of Interior of State of Qatar, 27-29 May 2014, Doha, Qatar

### **Publications:**

- **Hydrological yearbook of the Nile River Basin in Sudan 1996.**

*Abbas, M. Mustafa*

This book was submitted to the Ministry of Irrigation and Water Resources of Sudan and published in the Nile Water Directorate in 1997 Khartoum, Sudan.

- **Future Sustainability Challenge in the Water Sector.**

*Abbas, M. Mustafa*

Award of Best Poster Paper in the conference.

This paper submitted and discussed on the 7<sup>th</sup> Nile 2002 conference, March 15-19, 1999 Cairo, Egypt.

- **Environmental Impact Assessment for Groundwater Management.**

*Abbas, M. Mustafa*

This paper submitted to the International conference on Regional Aquifer Systems in Arid Zone Managing non-renewable resources, November 21-24, 1999 Tripoli-Libya.

- **Environmental Aspects and Social Impacts of Water Resources  
(Case Study)**

*Abbas, M. Mustafa*

This paper submitted and discussed on the 8<sup>th</sup> Nile 2002 conference, June 26-30, 2000 Addis Ababa, Ethiopia.

- **Consequences of Nile Flood in Sudan**

*Abbas, M. Mustafa*

This paper submitted and discussed on the International Workshop on Development of Flood Plain and Wetlands (IWFW 2000), September 5-8, 2000 Beijing, China.

- **The Role of Water Harvesting Techniques for Water Uses**

*Abbas, M. Mustafa*

This paper submitted and discussed on the 9<sup>th</sup> Nile 2002 conference, October 7-9, 2002 Nairobi, Kenya.

- **Operation of Automatic Irrigation Systems (*Arabic Language*),**

*Abbas, M. Mustafa*

This paper submitted and discussed on the Science and Technology of Water Resources Conference, Supreme Council of Sciences, 18-21 October 2003 Syrian Arab Republic.

- **Reuse of Waste Water for Irrigation**

*Abbas, M. Mustafa*

This paper submitted and discussed on the Second Waste water reuse conference, June 6-9, 2005, Amman, Jordan.

- **Towards Hydropolitical Cooperation in the Nile Basin: Win-Win Projects between Sudan and Ethiopia**

*Abbas, M. Mustafa*

This paper was submitted and presented as a Poster Paper in the World Water Week 2006 in Stockholm, Sweden, August 20-26, 2006.

- **The Future of Hydropower in SUDAN**

*Abbas, M. Mustafa*

This paper submitted and presented in the 4<sup>th</sup> Conference on Scientific Research Outlook and Technology Development in the Arab World, December 11-14, 2006, Damascus, Syrian Arab Republic.

- **El Nino and its Impact on the Management of Water Resources in SUDAN (SN 85)**

*Abbas, M. Mustafa*

This paper was submitted to the Knowledge Based Industries and Nanotechnology Conference in collaboration with Arab Foundation for Science and Technology, February 11-12, 2008, Doha, Qatar.

- **Sudan Water Policy Legislation**

*Abbas, M. Mustafa*

This paper submitted and presented in the Efficient 2011 Conference in Dead Sea, which was organized by Ministry of Water and Irrigation of Jordan, International Water Association (IWA), and USAID. Jordan, March 29 – April 2, 2011.

- **Management of Lake Tana and Wetlands in the Blue Nile Basin**

*Abbas, M. Mustafa*

This paper was submitted and presented in the Summer School on Integrated Water Resources Management in Addis Ababa, Ethiopia, September 19 - 24, 2011.

- **Model-Based Optimization of the Blue Nile River Basin**

*Abbas, M. Mustafa*

This paper was submitted and presented as a Poster Paper in the World Water Week 2012 in Stockholm, Sweden, August 26-31, 2012.

- **Integrated Water Resources Management Policies in Sudan**

*Abbas, M. Mustafa*

This paper submitted and published in the India Water Week 2013, under the theme Efficient Management of Multipurpose and Multi-stakeholder Water Projects, New Delhi, India, April 08-12, 2013.

- **New Tools for Hydro-politics in the Blue Nile River Basin**

*Abbas, M. Mustafa*

This paper was accepted to be presented in the GWSP conference "Water in the Anthropocene: Challenges for Science and Governance", 21-24 May 2013 in Bonn, Germany.

- **Proposed Strategy for Utilization of the Nile Water between the Nile Basin Countries**

*Abbas, M. Mustafa*

This paper was accepted and published in the World Water Week 2013 (under the theme "Transboundary water cooperation - external and internal drivers"), 01-06 September 2013 Stockholm, Sweden.

- **Using Decision Support System to Manage Lake Tana Basin**

*Abbas, M. Mustafa*

This paper was accepted to be presented in the 3rd IWA Development Congress and Exhibition "Catalysing Urban Water Transitions" .. Reference No: "IWA-12389" and has been selected as a Platform Presentation for the IWA Development Congress to be held at 14-17 October 2013 in Nairobi, Kenya.

- **Assessment and Management of Transboundary Water Resources in the IGAD Sub-Region**

*Abbas, M. Mustafa*

This paper was accepted to be presented in the This paper was accepted to be presented in the 1st Africa Water Integrity Learning Summit, that organized by Stockholm International Water Institute 29-30 April 2014, Lusaka, Zambia.

- **Water Security and Biodiversity Losses in the IGAD Sub-Region**

*Abbas, M. Mustafa*

This paper was accepted to be presented in the Water Dialogue Forum "Water for Regional Cooperation", this conference is organized by IGAD-INWRM program, 03-05 December 2014, Nairobi, Kenya.

### **References:**

- **Engineer, Kamal Ali Mohamed**  
Former Minister of Irrigation and Water Resources  
Former Nile-COM member  
Former African Minister Council on Water (AMCOW) member  
C. Eng. FICE, UNITED KINGDOM  
ICE Sudan Country Representative.  
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### **Note:**

I am ready to present a copy of my certificates and work experiences when requested.

# **CURRICULUM VITAE**

## **Asia Adlan Mohamed**

**P.O BOX 321**  
**Institute of Environmental Studies (IES),**  
**University of Khartoum (U of K),**  
**Khartoum, Sudan**  
**[asiamohamed@hotmail.com](mailto:asiamohamed@hotmail.com)**

### **EDUCATION**

- Passed CEEPA's (The Centre for Environmental Economics and Policy in Africa) prescribed curricula for the specialization in Environmental Economics and Policy Analysis of the Regional Collaborative Masters Degree Program in 2004, University of Pretoria, South Africa, 2004.
- M.Sc. (Environmental Studies), Institute of Environmental Studies, University of Khartoum (Sudan), 1998 '*Poverty and Environmental Degradation, case study of Hamadenallah, rural Sinnar, Sudan*'
- B.S., honor Agricultural Economics, Second Class division one, University of Khartoum (Sudan), 1992

### **PROFESSIONAL EXPERIENCE**

- Lecturer and Researcher in the field of Environmental Economics, the Institute of Environmental Studies (IES), University of Khartoum (UofK), Khartoum, Sudan, 2003– Present
- Women in Development Specialist in the Area of Development Scheme (ADS), UNDP, Butana Project, Sudan, 1999-2002.
  - Main Duties in these assignments:
    - Research project coordination
    - Field work supervision
    - Data Collection, processing and analysis.
    - Reports writing.
    - Preparation for workshops and conferences.
- Teaching and Research Assistant in the field of Environmental Economics, the Institute of Environmental Studies (IES), University of Khartoum (UofK), Khartoum, Sudan, 1994 – 1998.

### **OTHER WORK AND ASSIGNMENTS**

- Member of expert Group for scoping of a methodological assessment and development of a guide regarding diverse conceptualization of values of biodiversity and nature's benefits to people including ecosystem services, Deliverable 3d. IPBES.
- Member of Expert Group on Biodiversity for Poverty Eradication and Development. Convention of Biological Diversity.
- Team Leader for the Sudan National Mitigation Action (NAMA) Project, Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Program (UNDP), ongoing.

- Contributing to the quantitative analysis (CBA) done for Investment and Financial Flows for Adapting to Climate Change in Sudan “thematic component 4 of the National Adaptation Project (NAP)”, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations for Environment Program (UNEP), November, 2013.
- Participated in the experts working group of economist that produced The Economic Valuation of Ecosystems and Biodiversity (TEEB), its Mainstreaming and Finance into Environmental Strategies of Sudan, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Program (UNDP), September, 2013.
- Field supervisor and data analyst of the market research conducted in Khartoum State (Sudan) to explore the microfinance market for El Kyfaya institution in the state – SMDC – May 2013.
- Conducted the Cost Benefit Analysis (CBA) for Sudan Technology Need Assessment (TNA) project for climate change adaptation and mitigation under the United Nations Framework Convention on Climate Change, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Program (UNDP), April, 2013.
- Field supervisor and data analyst of the market research for microfinance conducted in Khartoum state to prepare a 5 year business plan for the Savings and Social Development Bank (Sudan) in the Process of reorganizing the bank to adopt best microfinance practice. Unicons and LFS – June 2011.

## **RESEARCH AND COURSES**

### **a) Research projects jointed**

- ❖ Sudan REDD+ Readiness Preparation Proposal (RPP), Sudan Forest National Corporation (SFNC), in Collaboration with the United Nations for Environment Program (UNEP), ongoing.
- ❖ Sudan Technology Need Assessment (TNA) for climate change adaptation and mitigation under the United Nations Framework Convention on Climate Change, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Program (UNDP), 2013.
- ❖ Sudan's Second National Communication Project under the United Nations Framework Convention on Climate Change, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Programme (UNDP), 2012.
- ❖ Sudan's First National Communication Project under the United Nations Framework Convention on Climate Change, Higher Council for Environment and Natural Resources (HCNER) in Collaboration with the United Nations Development Programme (UNDP), 2003.
- ❖ Shortage of Skilled workers and Technicians in large industrial enterprises: The effect of underlying demand and supply practices and training policy options, Ministry of Labor Force and UNFPA, April – November 1996.
- ❖ School based Health Delivery in Sudan with Faculty of Medicine, University of Khartoum and WHO, September 1995 – February 1996.
- ❖ Impact of income generating activities in rural areas – case study of Hamadenallah (UNFPA project), rural Sinnar, –Sudan, Ministry of Labor Force and UNFPA, April – November 1996.
- ❖ Demographic Change and Development, Population Study Centre, University of Gizera, Sudan, June – November 1991.

### **b) Courses and workshops:**

- ✓ A pre-conference mentoring/technical workshop at the 18th Annual Conference of the African Econometric Society (AES) organized by The Association for the Advancement of African Women Economists in Kampala, Uganda, July 22<sup>th</sup>, 2013.
- ✓ A pre-conference mentoring/technical workshop at the 17th Annual Conference of the African Econometric Society (AES) organized by The Association for the Advancement of African Women Economists in Kampala, Uganda, July 24<sup>th</sup>, 2012.
- ✓ Training workshop on "Enhancing the Participation of African Women Scientists in Climate Change Assessment, Information Dissemination and Policy Advocacy" organized by International Foundation for Science (IFS) and IGAD Climate Prediction and Application Centre (ICPAC), Kisumu, Kenya, August 30<sup>th</sup>--September 1<sup>st</sup>, 2010.
- ✓ The Climate Change Workshop on "Greenhouse Gases Mitigation" organized by Second National Communication Project, Khartoum, Sudan March 7--8<sup>th</sup>, 2010.
- ✓ The course/seminar "Environmental Economics for Development Policy, Session 9" organized by the World Bank Institute and The Centre for Environmental Economics and Policy in Africa (CEEPA) Pretoria, South Africa, October 9--20<sup>th</sup>, 2006.
- ✓ Macroeconomic, Micro-Economics and Econometric Analysis Courses, Faculty of Economics, University of Pretoria, South Africa, 2004 & 2006.
- ✓ Quantitative and Qualitative Analysis Methodology, Department of Agricultural Economics and Rural Development, University of Pretoria, South Africa, February- July 2004.
- ✓ First Training Workshop of trainers in CGE Modeling, EEE Program, ICTP, Trieste, Italy, December 5--16<sup>th</sup>, 2005.
- ✓ Simulation of Complex Systems and Agent based Modeling Applied to Natural Resources Management, CIRAD, University of Pretoria, South Africa, October 13--24<sup>th</sup>, 2003.
- ✓ Training in Social Science Research Methodology offered by the People, Land and Water Program of IDRC and the Organization for Social Science Research in Eastern and Southern Africa (OSSREA), Sudan, December 19--31<sup>st</sup>, 2001.
- ✓ Advance course in Climate Change in the Mediterranean Region – Socioeconomic Aspects and Impacts, ICTP, Trieste, Italy, November 12--16<sup>th</sup>, 2001.
- ✓ Women in Development Training course, UNDP, November 6– 12<sup>th</sup>, 1999.
- ✓ Participatory Learning and Action (PLA) Training Course, UNDP, Sudan, September 25<sup>th</sup> - October 7<sup>th</sup>, 1999.
- ✓ Vulnerability and Adaptation Training Program, UNDP and Higher Council for Environment and Natural Resources, Sudan 20th Feb -- 4th March 1999.
- ✓ Training Program in Methodologies of Green House Gases (GHG) Inventory, Higher Council for Environment and Natural Resources, Sudan, August 22-27<sup>th</sup>, 1998.
- ✓ Leadership Training, Environmentalists' Society, Sudan, July 1--4<sup>th</sup>, 1998.
- ✓ Climate change training Program, Higher Council for Environment and Natural Resources and Institute of Environmental Studies, Sudan, June 20--25<sup>th</sup>, 1995.
- ✓ Training workshop in sustainability issues and environmental considerations in Agricultural policy analysis and project planning, organized by FAO, Sudan, March 1996.
- ✓ Training course in Agricultural credit, Agricultural Bank – Sudan, November 1991.
- ✓ Course in computer basic science (word processing, Excel SPSS, PowerPoint etc.), January--February 1992.

## CONFERENCES AND MEETINGS

- The Second Expert Group Meeting on Biodiversity for Poverty Eradication and Development in Chennai, India, 4-6 December 2013.

- The International Conference on Valuation and Accounting of Natural Capital for Green Economy (VANTAGE) in Africa. UNEP Headquarters, UN Gigiri Complex, Nairobi, Kenya, 3-4 December 2013.
- The 18th Annual Conference of the African Econometric Society (AES) in Accra, Ghana, July 24th—26th, 2013.
- Africa-Australia MRV Experts' Dialogue, *Canberra*, Australia, 16-21 December 2012.
- The 17th Annual Conference of the African Econometric Society (AES) in Kampala, Uganda, July 25th—27th, 2012.
- The Twenty Sixth Greater Horn of Africa Climate Outlook Forum (GHACOF 26) Imperial Hotel, Kisumu, Kenya, September 2--3, 2010.

## **Computer Literacy**

Using computer software, including word processing (WinWord and word perfect), analysis (E-views, Excel, STATA and SPSS) and presentation (PowerPoint, office publishers).

## **Language Skill**

- Arabic
- English

## **Membership in Professional Associations**

- Organization for Women in Science for the Developing World (OWSD)
- Association for the Advancement of African Women's Economists, (AAAWE)
- Association of African Econometric Society (AES)
- Sudanese Environmental Society (SES)
- Environmentalist Society (ES).

**1. PERSONAL PARTICULARS**

**SURNAME:** KAFUMU  
**OTHER NAMES** George Revocatus  
**NATIONALITY:** Tanzanian  
**DATE OF BIRTH:** 12. 10. 1964  
**LANGUAGES:** English (Fluent)  
Swahili (Fluent)  
**ADDRESS:** Vice-President's Office  
Division of Environment  
P.O. Box 5380  
Dar-Es-Salaam  
Tanzania  
**E-MAIL:** grkafumu@yahoo.com  
**TEL:** 022 – 2118416/2113856  
**MOBILE:** +255 -22-754 – 657330/ 0784 657330/ 0715 657330  
**FAX** 255-22-2125297/2138949  
**MARITAL STATUS:** Married  
**SEX:** Male  
**NO. OF CHILDREN:** Four

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**2. ACADEMIC QUALIFICATIONS**

- 1998 – 2000: M.Sc. Management of Natural Resources and Sustainable Agriculture (MNRSA). Research: Charcoal Consumption, its Socio-Economic and Environmental Impacts: (A case study from Dar es Salaam - Tanzania); Agricultural University of Norway- AUN, **Norway**.
- 1995 (Feb.-July): Postgraduate Certificate in Environmental Management. Research: Deforestation in Mainland Tanzania; Causes, Consequences and possible Solutions. University of Adelaide, **S. Australia**.

1989 – 1991: B.Sc. Forestry. Research: Possible Agroforestry Systems in Semi arid areas of central Tanzania - Dodoma; Sokoine University of Agriculture (SUA), Morogoro – **Tanzania**.

**3. SHORT TRAINING COURSES:**

September 2008: International Course on combating land degradation/desertification for sustainable economic development; Beijing – **China**.

Feb – Mar 2006: Certificate in Advanced Project/Program Planning, Monitoring and Evaluation. The International Management Centre for HIPC; Mbabane – **the Kingdom of Swaziland**.

May 2003: International Course on Socio-economic Monitoring and Environmental Compliance for Pipeline Gas Industry. Petroleum Industry Training Services (PITS), Calgary, Alberta – **Canada**.

February 2003: International Course on Gender, Organizational Change, Agriculture and Leadership (GOAL). International Agriculture Centre – University of Wageningen, **the Netherlands**.

1998: Environmental Impact Assessment (EIA), University of Dar es Salaam, **Tanzania**.

November 1991: Natural Resource Management (Forest and Wildlife), field study, **Malawi**.

**Other training:**

- Public Leadership and Organization change; organized by the President's Office – Civil Servant Management – **Dar es Salaam**.

- UNEP Regional Training Workshop on Issue Based Model (IBM) in the management of Multilateral Environmental Agreements (MEAs); Brazzaville – **Republic of Congo**.
- UNEP/GEF Regional Training workshop for Anglophone African Countries on the Global Environmental Facility's (GEF) Sustainable Land Management Approach, Windhoek – **Namibia**.
- National Adaptation Plan of Action (NAPA) training for Least Developed Countries (LDC) under UNFCCC, Dar es Salaam – **Tanzania**.
- GEF/NEPAD Orientation Training Session, Nairobi – **Kenya**.

**4. WORKING EXPERIENCE:**

August 2008 to date: In addition to other duties, I am a member and Co-Chair of the National REDD Task Force that oversees the implementation of REDD initiative in Tanzania (readiness phase). I am also participating in other REDD initiatives including FCPF under the World Bank and UN-REDD. As a Focal Point for UNCCD, I am Coordinating the National Coordination Unit for the Kilimanjaro SLM project with the support from TerrAfrica Initiative and other partners.

August 2004 – August 2008: Working with the Division of Environment, Vice President's Office as a **Principal Forest Officer (Environment)**. My responsibilities include:- Implementation of the UNCCD, particularly the National Action Programme to Combat Desertification (NAP), preparation of the National Adaptation Plan of Action under UNFCCC, the New Partnership for Africa's Development (NEPAD) and the development of the Action Plan for the Environment Initiative of NEPAD, East Africa Community – Committee for Natural Resources and Environment and other related duties, AMCEN, SADC and ACP assignments. Other assignments on

forestry, water resources, tourism, wildlife and land use, land use change and forestry under UNFCCC.

June 2003 – August 04: Working with a Project Monitoring Unit (PMU) in the Ministry of Energy and Minerals (Secondment) as an Environmental Compliance Monitor for the SongoSongo Gas Development and Power Generation Project. Some of the responsibilities include: Reviewing Environmental and Social Assessment and Monitoring Plan (ESMP), reviewing various environmental reports submitted by Songas; Studying World Bank Safeguard Policies and baseline survey records (pre-construction video, photo mosaic alignment sheets and other detailed reports from Songas, earmark locations for rare and endangered species and habitats onto alignment sheets, review procedure for protection of flora and fauna, and monitor the progress. Work closely with Elmcrest International Group of advisers in carrying out periodic environmental inspection, Field Monitoring to verify on-site compliance with the constructor's proposed operational practices (way leave restoration, re-vegetation, river crossings best practices etc.), environmental and social impacts mitigation, and monitoring in accordance with the ESMP.

July 2000 - 2002: Working as Senior Environmental Management Officer responsible for forest sector, biodiversity, desertification and land degradation, and other natural resources management issues, policy and planning; My main responsibilities includes:- Coordinating the implementation of the National Action Programme to Combat Desertification and mitigating the effects of drought (NAP), including NGO/CBO programmes addressing land degradation/desertification through catalytic support funding; Monitoring and evaluation of the NGO/CBO supported programmes; Implementation of the Convention on Biological Diversity especially terrestrial biodiversity.

March-August 1997: Working as the National Programme Personnel (NPP) for developing a National Action Programme to Combat Desertification (NAP). Responsible for planning, follow up for daily planned activities, reviewing and writing reports, liaison with other ministries and NGOs contributing to the National Technical Committee for NAP and members of the NAP technical committee.

Sept. 96-March 97: Working as a National Co-ordinator for NAP. Responsible for Preparation of the National Environment Fund/Desertification Fund. Serving as a Secretary for the National Environment Fund task force and member for the NAP technical committee.

June 94 – Sept. 96. Working as an Environment Management Officer at the Vice President's Office, Division of Environment. Main area of responsibility includes all matters related to environmental policy formulation and review, coordination, monitoring and planning for terrestrial environment (Forestry, wildlife and wetlands). CCD Negotiations at all levels, follow up to Biodiversity Convention at sub regional and regional levels; and preparation of reports on all the respective issues.

Dec. 1991 – 1992: Assistant Forest Project Manager (Mtibwa Teak Forest Project) responsible for planning and supervising seasonal and daily field activities (e.g. Nursery activities, planting, thinning, harvesting, fire protection, slashing etc.). Preparation of a five year management plan, assisting the Manager in administration matters and other natural resource issues as well as peoples awareness rising on various natural resources management issues, especially forestry.

Dec. 1991 – 1992: Assistant Forest Project Manager (Mtibwa Teak Forest Project) responsible for planning and supervising seasonal and daily field activities (e.g. Nursery activities,

planting, thinning, harvesting, protection i.e. fire, slashing etc.). Preparation of a five year management plan, assist the Manager in administration matters and other natural resource issues as well as peoples awareness rising on various issues.

## **5. SHORT TERM ASSIGNMENTS**

- (a) Member of the National Task Force on the Implementation of REDD initiatives in Tanzania under the UNFCCC i.e. Reduced Emissions from Deforestation and forest degradation 2008 to date. (Preparing National REDD+ Strategy and Action Plan, National REDD+ Safeguards, RICS, oversee REDD+ pilot projects in the country). Currently coordinating Phase two of readiness phase.
- (b) National focal Point for the United Nations Convention to Combat Desertification (UNCCD) from 2007; served as the member of the Africa Bureau to the UNCCD for two years (2007-2009).
- (c) Coordinator of the Multilateral Environment Agreements (MEAs) Project that involved Uganda, Mozambique, Rwanda and Rwanda. The project focused on the synergistic implementation of UNFCCC, UNCCD, CBD and activities geared towards reducing Poverty among communities. The project involved Small Grants Programme for NGOs to implement activities on the three Rio Convention and Poverty reduction.
- (d) Member of a Water Commission for Tanzania and Mozambique (2006). A commission established to advice on the development of the Ruvuma river basin shared by Tanzania and Mozambique.
- (e) Board Member of the Wami/Ruvu River basin management for three years from March 2002 (Ministry of Water and Livestock Development).
- (f) Member of the Technical Committee on the Dar es Salaam Water and Sewerage Authority (DAWASA); Development of a Future Water Source for Dar es Salaam, since 2005.

- (g) Member of the Selection Committee on the Consultant firms for the Valuation of the Catchments forest economic values in Tanzania, December 2001.
- (h) Member of the Negotiating team for the preparation of the World Summit on Sustainable Development (WSSD) in the SADC region, 2001.
- (i) Chairperson of a Probe team for the undeveloped proposed Sanitary Landfill in Moshi Municipal (Moshi-Mijohoroni area) under the Urban Sector Rehabilitation Project (USR) in Kilimanjaro region, August 2001. The team was charged with the responsibility of reviewing the EIA, the Environmental report; advice on the feasibility of the project and/or suggest the possible sites for the development of the Sanitary Landfill or an alternative infrastructure such as Damping site.
- (j) Member of the National Informal Wetland Working Group (IWWG) since 2001; responsible for, among other responsibilities advising the Ministry responsible, on the management of various wetlands; and selecting and proposing potential areas suitable for designation as Ramsar Sites.
- (k) Member of the Technical Advisory Committee for the water sector (TAC) since 2001. Among the responsibilities include: Advising the Ministry for Water and Livestock Development on the formulation and implementation of the water sector development strategy, and give advice on the implementation of the Rural Water Supply and Sanitation project (RWSSP).

## **6. CONFERENCES AND MEETINGS**

Attended/participated in various Conferences and Meetings at National, Sub-regional, Regional and International levels on Environment and Natural Resources Management. Example: Co-chair for the National REDD+ Task Force since 2009 and member of Task Force; Conferences of the Parties to the Convention to Combat Desertification (COPs – UNCCD), COP for UNFCCC attending REDD+ issues; ACP meetings, and Sub –

regional meetings on UNCCD and CBD, African Ministerial Conferences on Environment (AMCEN), Meetings for the preparations of CSD Summits e.g. WSSD 2002, East African Community Committees on Environment and Natural Resources, Lake Victoria Environment Management Program Scientific Conferences, East African Community particularly the Committee on Natural Resources and Environment and related meetings, Southern Africa Development Community (SADC) and many others. I have served as Chairperson and Rapporteur to some of these meetings.

## 7. SCIENTIFIC REPORTS AND PAPERS

- (i) Vulnerability and Adaptation for Climate Change in Forestry, Tourism and Wildlife Management Sectors: Preparation of the Second National Communication under the United Nations Framework Convention on Climate Change (UNFCCC), 2007; **TANZANIA**.
- (ii) National Report on the Status of Drought and Desertification, 2007; A report prepared for AU and CSD – Drought and Desertification Cluster, **TANZANIA**.
- (iii) National Report for the Implementation of the National Action Programme (NAP) under the United Nations Convention to Combat Desertification (UNCCD), A paper presented at the Regional preparatory meeting for the 3<sup>rd</sup> Committee to Review the Implementation of the Convention (CRIC - 3), March 2005, Addis Ababa, **ETHIOPIA**
- (iv) A General Natural Management Plan (2005 – 2014), for the Sustainable Environmental Management of the Lufilyo River Basin and Ecosystems in Rungwe district, Mbeya region, August 2005, **TANZANIA**.
- (v) Climate Change Adaptation and Mitigation, Technology Needs Assessment in Forestry, Wildlife, Tourism, Human settlement and land sector. A paper prepared for the National Report to the UNFCCC Secretariat for the sectoral assessments; 2005, **TANZANIA**.

- (vi) United Nations Convention to Combat Desertification (UNCCD) implementation in Tanzania, A paper presented at the National NGOs Desertification Workshop in Dodoma on 22 November 2004, **TANZANIA**.
- (vii) Ecosystem Profile report. Contributed in the preparation of the "Eastern Arc Mountains and Coastal Forests of Tanzania and Kenya, Biodiversity Hotspot; Critical Ecosystem Partnership Fund, July 2003, **TANZANIA**.
- (viii) National Report for the implementation of the Convention on Biological Diversity (CBD), Second Report to be submitted at the CBD Secretariat. December, 2002, **TANZANIA**.
- (ix) National Report for the Implementation of the National Action Programme (NAP) under the United Nations Convention to Combat Desertification (UNCCD), A paper presented at the Regional preparatory meeting for the Committee to Review the Implementation of the Convention (CRIC), July 2002, Windhoek, **NAMIBIA**
- (x) Strategic Plan, National Reporting and Implementation of the Convention on Biological Diversity. A paper presented at the national preparatory workshop for the Sixth Conference of the Parties (CBD-COP 6) to the Convention on Biological Diversity (CBD). April 2002; Dar es Salaam, **TANZANIA**.
- (xi) Charcoal Consumption, its Socio-economic and Environmental effects. A case study from Dar es Salaam, Tanzania. A thesis submitted as partial fulfilment for M.Sc. (MNRSA), Agricultural University of Norway-**NORWAY**. 2000, Unpublished.
- (xii) National Report for the implementation of Agenda 21 (Rio+5). Report to United Nations Commission on Sustainable Development (Chapter on Natural resources Management and Information/Database Management. 1997, **TANZANIA**.
- (xiii) Deforestation in mainland Tanzania, "Causes, Consequences and Possible solutions". A report presented as a partial fulfilment for the Post

Graduate Certificate in Environmental Management, Mawson Graduate Centre for Environmental Studies-University of Adelaide, **SOUTH AUSTRALIA**. 1995, Unpublished.

- (xiv) The Inventory of Farming Systems and Appropriate Agroforestry Interventions; A Case Study of Mvumi Division-Dodoma. A thesis submitted for partial fulfilment for B.Sc. (Forestry), Sokoine University of Agriculture, Morogoro-**TANZANIA**. 1991, Unpublished.

## **8. OTHER DOCUMENTS PREPARED**

- (l) Preparation of an Operational Manual for the Micro-grants Programme of the Capacity Building to Alleviate Poverty through Synergetic Implementation of Rio Multilateral Environmental Agreements (MEAs), July 2005.
- (m) Guidelines for Small – Scale Private Sector Participation in provision of Rural Water Supply services in Tanzania, September 2005.
- (n) Participated in the preparation of Guidelines, Selection Criteria for REDD Projects/activities in Tanzania.

## **9. OTHER OFFICE ASSIGNMENT**

- Acted as the Permanent Secretary of the Vice President's Office in two occasions while the PS is attending meetings outside Dar es Salaam.
- Acted as the Director of Environment as well as Assistant Director of the Environmental Impact Assessment (EIA) section in several occasions.
- I have represented my bosses in several occasions/assignments.

<b>Certification:</b>
I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe my qualifications, my experience, and me.
(Signed)
<b>Signature:</b> <b>George Revocatus Kafumu</b> <b>Date: December, 2011.</b>

## SAMSON GWALI

### Curriculum Vitae

A.

#### Contact Address

Dr. Samson Gwali  
Tree Improvement and Germplasm Research Programme  
National Forestry Resources Research Institute (NaFORRI)  
National Agricultural Research Organisation (NARO)  
P. O. Box 1752, Kampala, UGANDA.  
Telephone (cell): +256 772 410665, +256 701 410665  
Email: [gwalis@yahoo.co.uk](mailto:gwalis@yahoo.co.uk)

B.

#### Academic Qualifications

- 2008 – 2012 Doctor of Philosophy (PhD), Makerere University, College of Agricultural and Environment Sciences, School of Forestry, Environment and Geographical Sciences, Kampala, Uganda. Research topic: “Phenotypic, chemical and molecular characterisation of shea butter tree (*Vitellaria paradoxa* subspecies *nilotica*) ethno-varieties in Uganda.”
- 1998 – 1999 Master of Science (MSc) (Biodiversity and Taxonomy of Plants), University of Edinburgh and the Royal Botanic Garden, Edinburgh, Scotland, UK. Research topic: “Evolutionary revision and biogeography of the caulescent Streptocarpus of Africa.”
- 1988 – 1991 Bachelor of Science (BSc) (Forestry), Makerere University, Faculty of Forestry and Agriculture. Dissertation topic: “Cost – Benefit Analysis of Forest Tree Nurseries.”

C.

#### Professional training

- 10<sup>th</sup> – 14<sup>th</sup> March 2014: 8<sup>th</sup> Pan- African ABS Access to Genetic Resources and Benefit Sharing (ABS) Capacity Building Workshop. Cotonou, Benin.
- 23<sup>rd</sup> – 24<sup>th</sup> June 2012: Communicating Forest Research – Making Science Work for Policy and Management. IUFRO-SPDC Pre-Conference Training Workshop, Kenya Forestry Research Institute, Muguga, Nairobi.
- 16<sup>th</sup> April – 4<sup>th</sup> May 2012: Contemporary approaches to genetic resources, conservation and use. Wageningen UR Centre for Development Innovation, Wageningen, The Netherlands.

30<sup>th</sup> January – 3<sup>rd</sup> February 2012: 6<sup>th</sup> Pan- African ABS Access to Genetic Resources and Benefit Sharing (ABS) Capacity Building Workshop. Limbé, Cameroun.

10<sup>th</sup> – 14<sup>th</sup> October 2011: Training course to build African capacity in Access and Benefit Sharing. Strathmore University, Nairobi, Kenya.

5<sup>th</sup> July – 31<sup>st</sup> August 2011: Analysis of genetic variation of shea butter tree varieties from Uganda using SSR markers. Higher Education and Training Unit, French Center for Development Cooperation, Montpellier, France.

6<sup>th</sup> September – 31<sup>st</sup> October 2010: Analysis of chemical composition of shea kernels using Near Infrared Spectrometer system; Extraction of butter, analysis of free fatty acid, peroxides and solid fat index by conventional method and Near Infrared Spectrometry (NIRS). Higher Education and Training Unit, French Center for Development Cooperation, Montpellier, France.

25<sup>th</sup> – 28<sup>th</sup> May 2010: Training course for Biosafety inspectors. Ankrah Foudation, Mukono, Uganda National Council for Science and Technology.

4<sup>th</sup> – 6<sup>th</sup> March 2009: Support for effective ABS negotiations. Addis Ababa, Ethiopia. (Organized by GTZ and UNITAR, and supported by the GTZ-led ABS Capacity Development for Africa Initiative and the Swiss Confederation).

6<sup>th</sup> – 10<sup>th</sup> December 2009: 4<sup>th</sup> Pan- African Access to Genetic Resources and Benefit Sharing (ABS), capacity building workshop. Cairo, Egypt.

13<sup>th</sup> – 14<sup>th</sup> October 2008: IUFRO-SPDC/FORNESSA Conference and Training Workshop - Science-Policy Interfacing: Enhancing Contributions of Forest Science and Traditional Forest-related Knowledge (TFRK) to the Conservation and Sustainable Use of Forest Resources in Africa held at Erata Hotel, East Legon, Accra, Ghana

29<sup>th</sup> September – 3<sup>rd</sup> October 2008: Training workshop in Agroforestry and Tree Genetics: Making Markers Meaningful. World Agroforestry Centre, Gigiri, Nairobi, Kenya

3<sup>rd</sup> - 7<sup>th</sup> December 2007: 2<sup>nd</sup> Pan- African Access to Genetic Resources and Benefit Sharing (ABS) capacity building workshop, Nairobi, Kenya.

8<sup>th</sup> – 11<sup>th</sup> August 2006: Makerere University - Tropical Biology Association (TBA) Specialist training workshop: Writing for publication, fundraising and communicating results, Kampala, Uganda.

9<sup>th</sup> – 13<sup>th</sup> January 2006: GLOBE International Training Workshop, Kampala, Uganda.

10<sup>th</sup> - 23<sup>rd</sup> March 2002: 4<sup>th</sup> Tropical African Bryology and Lichenology Advanced Training Course, Chiromo campus, University of Nairobi, Kenya.

April 2004: East and Central African Research Proposal Writing Skills training held at ICRAF house, Gigiri, Nairobi, Kenya. The training was sponsored by the International Foundation for Science (IFS) in collaboration with ICRAF.

D.

**Work Experience**

**Summary:** I have over 20 years working experience in forest management and training, community forestry, environmental and natural resources management and research in Uganda. My areas of specialisation are in forest/tree genetics, woodland ecology and management, tree farm interactions and landscapes, community forestry, plant taxonomy and biosystematics, plant distribution and evolution. I have undertaken a number of consultancy assignments within the East African region in my area of specialisation such as tree inventories in Uganda's woodland and natural high forest ecosystems, savannah woodland ecology, useful wild trees for nutrition and health in Uganda's farming systems, forestry management training for Southern Sudan Ministry of Forestry, training of forestry technicians in Uganda and supervision of students' research projects at Certificate, Diploma, Undergraduate and Masters degree level in Uganda. I am currently involved and have experience in working with and leading multi-disciplinary and multi-national research teams. I have been involved with multi-national projects in the East African region (Uganda, Kenya, Tanzania, Rwanda and Sudan) in the areas of tree species diversity, coffee- tree systems, carbon sequestration and coffee farmer typologies.

November 2012 – present	Programme Leader, National Tree Improvement and Germplasm Research Programme, National Forestry Resources Research Institute (NaFORRI), Uganda.
November 2012 – present	Senior Research Officer, Tree Improvement and Germplasm Research, National Forestry Resources Research Institute (NaFORRI), Uganda.
May 2006 – October 2012	Research Officer/Scientist [Plant Ecology & Conservation], National Forestry Resources Research Institute (NaFORRI), Uganda.
Jan 2000 – April 2006	Assistant Academic Registrar, Nyabyeya Forestry College, Masindi, Uganda.
Feb 1997 – Apr 2006	Lecturer [Botany & Plant Taxonomy], Nyabyeya Forestry College, Masindi, Uganda.
May 1995 – Jan 1997	District Forest Officer (Ag.), Busia District, Uganda
Aug 1992 – April 1995	Lecturer [Environmental Education], Kampala College of Vocational and Environmental Education, Kampala, Uganda.

**E.**

**Research Projects**

1. Development of tools and options for pre-breeding of shea nut tree (*Vitellaria paradoxa*) for improved livelihoods in eastern and northern Uganda (NARO/IDA ATAAS Project, 2012 - current)
2. Domestication and Propagation of priority plant species for improved health, nutrition and incomes (NARO/IDA ATAAS Project, 2012 - current)
3. Innovative Tools and Techniques for Sustainable Use of the Shea Tree in the Sudano-Saharan zone (INNOVKAR) - Contract No. 032037 (EU/Makerere University, 2007-2010).
4. Morpho-genetic and chemical characterisation of local shea (*Vitellaria paradoxa* ssp. *nilotica*) varieties for improved nutrition and household incomes in Uganda. (Makerere University/Carnegie Corporation, USA, 2009 – 2011).
5. Field assessment and sample collection for molecular characterisation of *Vitellaria paradoxa* ethno-varieties in Uganda (ICRAF, 2009)
6. Use of leaf extracts in *Warburgia ugandensis* herbal therapy: conservation of an overexploited medicinal tree species in the L. Victoria basin. (Inter-University Council for East Africa [IUCEA], 2009 – 2012)
7. The contribution of coffee agroforests to biodiversity conservation around Mabira forest, Uganda. (EU – CAFNET/ICRAF, 2008 – 2011).
8. Efficient and effective management of semi arid savannah woodlands of Uganda. (Government of Uganda/National Agricultural Research Organisation [NARO], 2006 – 2011)
9. Propagation and domestication of priority medicinal plants of the dry lands of eastern Uganda. (Government of Uganda/National Agricultural Research Organisation [NARO], 2006 – 2011).

**F.**

**Consultancies**

1. Mid Term Review, Ecosystem Based Adaptation (EbA) in Mount Elgon Ecosystem Project. A consultancy undertaken for the United Nations Development Programme (UNDP) Uganda Country Office. July - August 2014 (UNDP National Individual Consultant).
2. Vulnerability Impact Assessment (VIA) for the Mt Elgon ecosystem, Uganda. A consultancy undertaken on behalf of the United Nations Development Programme (UNDP) Uganda Country Office. March - December 2013 (Co-consultant).
3. Provision of services in supporting information for the Ecosystem-based Adaptation in Mount Elgon Ecosystem Project Strategy. A consultancy undertaken for the United Nations Development Programme (UNDP) Uganda Country Office. June - September 2012 (Sub-contractor for NaFORRI).
4. Assessment of Taxonomy Capacity Needs for Uganda. A consultancy undertaken for and report submitted to the National Environment Management Authority (NEMA). June 2011 - September 2012 (Co-consultant).
5. Environmental Impact Statement (IAS) for the Swazi Highland Tea factory to be located on Plot No. 39 Block 25 at Kisingo hill, Kabingo parish, Kyamuhunga sub county, Bushenyi district. Environment Impact Assessment undertaken for Swazi Highland Tea Co. Ltd and

- submitted to the National Environment Management Authority (NEMA). January 2011 (Co-consultant).
6. Taxonomic resources in Uganda: A National Baseline Review. A consultancy undertaken and report submitted to CAB International for BIONET, Surrey, UK. April - July 2009 (Sub-contractor).
  7. A Review Study for Dryland Products for the Uganda Bio-trade Programme. A consultancy undertaken and report submitted to the UNCTAD/UEPB. May 2007 (Co-consultant).
  8. Development and dissemination of Collaborative Forest Management (CFM) guidelines to seven districts of Uganda. A consultancy undertaken and report submitted to FAO/UFWG. March 2006 (Lead consultant).
  9. Capacity building of local community groups in Collaborative Forest Management (CFM) villages around major forest reserves in Uganda. Training consultancy for FAO/UFWG held at Nyabyeya Forestry College, Masindi, Uganda. November 2005. (Principal trainer and coordinator).
  10. Capacity building of forestry technicians from southern Sudan. Training consultancy for FAO/WINROCK held at Nyabyeya Forestry College, Masindi, Uganda. November 2005 (Principal trainer and coordinator).

## **G. Publications**

### **i. Peer reviewed journal papers**

1. S Gwali, G Nakabonge, JBL Okullo, G Eilu, N Forestier-Chiron, G Piombo & F Davrieux (2013). Fat content and fatty acid profiles of shea tree (*Vitellaria paradoxa* subspecies *nilotica*) ethno-varieties in Uganda. *Forests, Trees and Livelihoods* Vol. 21 (4): 267–278.
2. S Gwali, G Nakabonge, JBL Okullo, G Eilu, P Nyeko & P Vuji (2012). Morphological variation among shea tree (*Vitellaria paradoxa* ssp. *nilotica*) ethnovarieties in Uganda. *Genetic Resources and Crop Evolution* Vol. 59:1883–1898.
3. S Gwali, JBL Okullo, G Eilu, G Nakabonge, P Nyeko & P Vuji (2012). Traditional management and conservation of shea trees (*Vitellaria paradoxa* subspecies *nilotica*) in Uganda. *Environment, Development and Sustainability* 14 (3): 347-363.
4. S Gwali, JBL Okullo, G Eilu, G Nakabonge, P Nyeko & P Vuji (2011). Folk classification of shea butter tree (*Vitellaria paradoxa* subsp. *nilotica*) ethno-varieties in Uganda. *Ethnobotany Research & Applications* 9: 243-256.
5. F Akwatulira, S Gwali, JBL Okullo, P Ssegawa, SB Tumwebaze, JR Mbwambo and A Muchugi (2011). Influence of rooting media and indole-3-butyric acid (IBA) concentration on rooting and shoot formation of *Warburgia ugandensis* stem cuttings. *African Journal of Plant Science* 5(8): 421-429.
6. F Akwatulira, S Gwali, JBL Okullo, P Ssegawa, SB Tumwebaze, JR Mbwambo and A Muchugi (2011). Vegetative propagation of *Warburgia ugandensis* Sprague: An important medicinal tree species in eastern Africa. *Journal of Medicinal Plants Research* 5(30): 6615-6621.
7. S Gwali, P Okullo, D Hafashimana and DM Byabashaija (2010). Taxonomic diversity, distinctness, and abundance of tree and shrub species in Kasagala forest reserve in

- Uganda: implications for management and conservation policy decisions. *Tropical Conservation Science* 3(3): 319-333.
8. I Kiyingi, JM Kidiya, S Gwali, P Okullo and DM Byabashaija (2010). Tree species composition, structure and utilisation in Maruzi Hills Forest Reserve in Uganda. *Southern Forests* 72(2): 112–116
  9. S Gwali, P Okullo, D Hafashimana & DM Byabashaija (2009). Diversity and composition of trees and shrubs in Kasagala forest: a semi arid savannah woodland in central Uganda. *African Journal of Ecology* 48: 111–118.

ii.

### Theses, Books or Book Chapters

1. C Okia, S Gwali & P Ebanyat (2014). Desert date in Uganda: a dryland tree for food security. pp. 117 – 119. In: De Leeuw J, Njenga M, Wagner B, Iiyama M. (Eds.), *Treesilience: An assessment of the resilience provided by trees in the drylands of Eastern Africa*. Nairobi, Kenya. ICRAF 166 pp.
2. S Gwali, C Okia & P Ebanyat (2014). Resilient livelihoods and the shea butter tree in Uganda. pp. 114 – 116. In: De Leeuw J, Njenga M, Wagner B, Iiyama M. (Eds.), *Treesilience: An assessment of the resilience provided by trees in the drylands of Eastern Africa*. Nairobi, Kenya. ICRAF 166 pp.
3. P Ebanyat, C Okia & S Gwali (2014). Farmer-managed natural regeneration in Offaka, Uganda. pp. 109 – 112. In: De Leeuw J, Njenga M, Wagner B, Iiyama M. (Eds.), *Treesilience: An assessment of the resilience provided by trees in the drylands of Eastern Africa*. Nairobi, Kenya. ICRAF 166 pp.
4. S McMullin, P Anjarwalla, S Gwali, M Njenga & R Jamnadass (2014). Medicine and pesticides. pp. 54 - 58. In: De Leeuw J, Njenga M, Wagner B, Iiyama M. (Eds.), *Treesilience: An assessment of the resilience provided by trees in the drylands of Eastern Africa*. Nairobi, Kenya. ICRAF 166 pp.
5. S Gwali (2012). Phenotypic, chemical and molecular characterisation of shea tree (*Vitellaria paradoxa* subspecies *nilotica*) ethno-varieties in Uganda. PhD thesis submitted to the School of Graduate Studies, Makerere University, July 2012.
6. SA Nsita, LSM Balikuddembe, S Gwali, G Sebahutu & A Temu (2001). *Curriculum for the Diploma course in Agroforestry*. Nyabyeya Forestry College, Masindi, Uganda. ICRAF, Nairobi, Kenya.
7. S Gwali (1999). Evolutionary revision and biogeography of the caulescent *Streptocarpus* of Africa. MSc Thesis, The University of Edinburgh, Scotland, UK.

iii.

### Newsletters, Magazine or newspaper articles

1. S Gwali (2011). Revealed: Folk classification and nomenclature of shea trees in Uganda. NaFORRI newsletter, Volume 2, Issue 1, June 2011. Pages 1 and 3.
2. S Gwali (2008). Famine foods for Uganda – domesticating the shea tree for food security. NaFORRI newsletter Issue 1, 2008. Page 3.

iv.

### Papers presented at conferences

1. S Gwali, JBL Okullo and G Eilu (2012). Traditional practices in the conservation of shea trees (*Vitellaria paradoxa*) in Uganda: Lessons for conservation science. Paper presented at the 1<sup>st</sup> IUFRO – FORNESSA Regional Congress, World Agroforestry Center, Nairobi, Kenya, 25-29 June 2012.
2. S Gwali, G Nakabonge, JBL Okullo, G Eilu, P Nyeko and P Vuzi (2012). Does morphology provide any evidence about shea tree (*Vitellaria paradoxa*) folk classifications in Uganda? Paper presented at the 1<sup>st</sup> IUFRO – FORNESSA Regional Congress, World Agroforestry Center, Nairobi, Kenya, 25-29 June 2012.
3. S Gwali, H Agaba, P Balitta, D Hafashimana, J Nkandu, F Pinard, A Kuria and F Sinclair (2012). Tree Species Diversity and Abundance in Coffee Agroforests around Mabira Forest System, Uganda. Paper presented at the 1<sup>st</sup> IUFRO – FORNESSA Regional Congress, World Agroforestry Center, Nairobi, Kenya, 25-29 June 2012.
4. S Gwali, JBL Okullo and G Eilu (2011). Traditional shea tree conservation practices in Uganda: Lessons for conservation science. Paper presented at the INNOVKAR Scientific Conference, Splendid Hotel, Ouagadougou, Burkina Faso, 21-30 October 2011.
5. S Gwali, G Nakabonge, JBL Okullo, G Eilu, P Nyeko, & P Vuzi (2011). Morphological variation among shea tree (*Vitellaria paradoxa* ssp. *nilotica*) 'ethno-varieties' in Uganda. Paper presented at the INNOVKAR Scientific Conference, Splendid Hotel, Ouagadougou, Burkina Faso, 21-30 October 2011.
6. S Gwali, JBL Okullo, G Eilu, G Nakabonge, P Nyeko and P Vuzi (2011). Folk classification of shea butter tree (*Vitellaria paradoxa* subsp. *nilotica*) ethno-varieties in Uganda. Paper presented at the joint Association for Tropical Biology and Conservation (ATBC) and African section of the Society for Conservation Biology (SCB), Arusha, Tanzania. Wednesday, 15 June, 2011.
7. S Gwali, G Nakabonge, JBL Okullo, G Eilu, SB Tumwebaze, P Nyeko and P Vuzi (2011). Morphological variation among shea tree (*Vitellaria paradoxa* ssp. *nilotica*) ethno-varieties in Uganda. Paper presented at the 3<sup>rd</sup> Makerere Annual Research and Dissemination Conference, Hotel Africana, Kampala. Monday, 11 April 2011
8. S Gwali Characterisation of shea tree (*Vitellaria paradoxa* ssp. *nilotica*) ethno-varieties in Uganda. Paper presented at the 3<sup>rd</sup> EU-INNOVKAR Shea Tree Project Steering Committee Meeting, Kampala, Uganda, 5<sup>th</sup> – 10<sup>th</sup> July 2009.

## H.

### Scientific Conferences/Workshops Attended

- 10<sup>th</sup> – 14<sup>th</sup> February 2014: 3<sup>rd</sup> World Congress of Agroforestry. Hotel Kempinski, New Delhi, India.
- 11<sup>th</sup> – 14<sup>th</sup> December 2013: Documentation of Traditional Knowledge in the context of ABS. Breakwater Lodge, Cape Town, South Africa.
- 15<sup>th</sup> – 19<sup>th</sup> July 2013: Trees and resilience: A review of agroforestry and forests in building resilience in East African drylands. World Agroforestry Center, Gigiri, Nairobi, Kenya.
- 17<sup>th</sup> – 20<sup>th</sup> February 2013: East African Region Tree Improvement Conference. Redcourt Hotel, Nairobi, Kenya.

- 23<sup>rd</sup> – 29<sup>th</sup> June 2012: First IUFRO-FORNESSA FORNESSA Regional Congress and ITTO/AFF Forest Policy. Kenya Forestry Research Institute (KEFRI) and World Agroforestry Centre (ICRAF), Nairobi, Kenya.
- 24<sup>th</sup> – 30<sup>th</sup> October 2011: INNOVKAR Scientific Conference, Splendid Hotel, Ouagadougou, Burkina Faso.
- 12<sup>th</sup> – 16<sup>th</sup> June 2011: Joint International Meeting of the Association for Tropical Biology and Conservation (ATBC) and the Society for Conservation Biology (SCB) – Africa section. Arusha, Tanzania.
- 11<sup>th</sup> – 12<sup>th</sup> April 2011: Third Makerere Annual Research and Innovations Dissemination Conference - Theme: Transforming society through research and innovations. Hotel Africana, Kampala, Uganda.
- 5<sup>th</sup> – 10<sup>th</sup> July 2009: Third meeting of the EU-INCO project “Innovative Tools and Techniques for Sustainable Use of the Shea Tree in Sudano - Sahelian zone.” Kampala, Uganda.
- 28<sup>th</sup> – 30<sup>th</sup> January 2009: First Regional Conference of the Society for Conservation Biology: From Conservation Science to Policy in Africa. University of Ghana, Legon, Accra, Ghana.
- 23<sup>rd</sup> – 28<sup>th</sup> August 2009: Second World Congress of Agroforestry. Theme: Agroforestry -The Future of Global Land Use. ICRAF/UNEP, Nairobi, Kenya.
- 16<sup>th</sup> – 23<sup>rd</sup> August 2009: Third International meeting of coffee agroforestry network (CAFNET) and biodiversity research. EU/CIRAD/ICRAF. Nyeri, Kenya.
- 27<sup>th</sup> – 30<sup>th</sup> May 2009: Sixth IUCEA/VicRes Annual Forum. Kenya School of Monetary Studies, Nairobi, Kenya.
- 30<sup>th</sup> – 31<sup>st</sup> October 2008: VicRes/SIDA Leadership Seminar. Ridar Hotel, Seeta, Mukono, Uganda.
- 13<sup>th</sup> – 18<sup>th</sup> October 2008: IUFRO-SPDC/FORNESSA Conference and Training Workshop, “Science-Policy Interfacing: Enhancing Contributions of Forest Science and Traditional Forest-related Knowledge (TFRK) to the Conservation and Sustainable Use of Forest Resources in Africa.” Erata Hotel, East Legon, Accra, Ghana.
- 19<sup>th</sup> – 31<sup>st</sup> July 2008: Second meeting of the EU-INCO project “Innovative Tools and Techniques for Sustainable Use of the Shea Tree in Sudano - Sahelian zone.” University for Development Studies (UDS), Tamale, Ghana.
- 16<sup>th</sup> – 22<sup>nd</sup> March 2008: Lake Victoria Research Initiative (VicRes) harmonization workshop for 2008 call for proposals in the L. Victoria basin. Nile Resort Hotel, Jinja, Uganda.
- 8<sup>th</sup> – 11<sup>th</sup> August 2006: Specialist training workshop on Writing for publication, fundraising and communicating results. Tropical Biology Association (TBA) and the European Union (EU), Makerere University, Kampala.
- 24<sup>th</sup> – 30<sup>th</sup> August 1997: Court Procedures for Forest Officers. Law Development Center (LDC), Kampala, Uganda.

## **CURRICULUM VITAE**

Name : Evelyn Nadjemba Lutalo  
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### **Educational Background**

- 2000 – 1998: University of Gent, Gent – Belgium: Master of Science Degree in Environmental Sanitation.
- 1988 – 1993: Ukrainian State Agricultural University, Kiev – Ukraine: Master of Science Degree in Veterinary Medicine.
- 1980 – 1986: Kampala High School, Kampala – Uganda: Uganda Advanced School Certificate
- 1971 – 1979: Lusaka Primary School, Kampala – Uganda: Primary Leaving Examination

### **PROFESSIONAL EXPERIENCES**

#### **(a) October 2001 to date**

**Employer:** National Environment Management Authority

**Title:** District Support Officer

**Job summary:**

- Provide technical and capacity building support to Local Governments and civil society organisations towards effective environmental management, and; carry out environmental monitoring in Government and Private Sectors.
- Desk Officer for Environment and Natural Resources Civil Society Organisations
- Assistant to Biodiversity and Rangelands Specialist in NEMA

### **Achievements**

- Organised, co-ordinated and facilitated environmental capacity building activities in Local Governments of Uganda.
- Spearheaded the Non Formal training in Local Governments
- Oversaw development and integration of the 40 District Environment Action Plans into the District Development Plans.
- Supervised 45 Environment Officers working in Local Governments.
- Supported District Environment Departments in preparation and implementation of annual work plans.
- Supervised, monitored and evaluated micro projects under the World Bank funding in Adjumani, Arua, Nebbi, Kasese, Kibaale, Kyenjojo, Kalangala, Masaka, Ntungamo, Mbarara and Kabale Districts.
- Monitored and assessed the components of environment, gender and HIV/AIDS during the Annual National Assessment of Local Governments' performance.
- Coordinated development of 2 NGO Directories.
- Assisted in coordination of the ongoing Payment for Ecosystem Services (PES) in Hoima District.
- Ensured timely requisition, release and accountability of operational funds and reporting of activities.
- Ensured effective scheduling and implementation of all activities undertaken in the Districts by NEMA staff and partners.
- Prepared briefs and reports among others on environment management activities.

### **(b) November 2000 to September 2001**

**Employer:** Ministry of Agriculture, Animal industry and Fisheries, Mukono District

**Title:** Veterinary Officer

**Job summary:** Coordinated clinical and production livestock activities in Wakisi sub county

### **(c) February 1995 to November 2000**

**Employer:** Ministry of Agriculture, Animal industry and Fisheries, Mukono District

**Title:** Agriculture Extension Worker

**Job summary:** Coordinated agricultural extension plans and programmes in Buvuma county

### **(d) November 1993 to January 1995 - Private Veterinarian (free lance)**

### **Significant publications**

- Climate Change in Uganda: The female gender is suffering most! *NEMANEWS*, June 2007, Vol. 5 No. 24
- The role of the civil society in Environmental Management, *NEMANEWS*, January 2003
- Sustainable Dairy Farming, *AUPWAE JOURNAL 2001*

### **Research Experience**

- Estimating the environmental and biodiversity cost accuring from the planned oil pipeline development in the Albertine Rift; Murchison Falls National Park – Uganda, September 2013 to date
- Watershed management and restoration in the Cattle Corridor of Uganda – University of Florida, USA and Uganda, 2009 - 2010
- Peoples' attitudes and perceptions towards the use of the Ecological Sanitation (Ecosan) toilets in Uganda, Durban - South Africa , 2008
- Environmental conflicts in the range lands of the Eastern Region of Uganda, 2006
- Gender and Environment: Participation of rural women in water resource management, 2005
- The Kyoto Protocol on climate change and its perspectives from developing countries - Msc. Thesis, Gent - 2000
- The Life Cycle Analysis of packaging materials in the environment, Gent, Belgium - 2000
- Bio filter technology in wastewater treatment - Bayer Chemical industry, Gent – 2000
- A village level participatory needs assessment for farmers in Kitimbwa and Ntenjeru sub counties of Mukono District, Ministry of Agriculture Animal Industries and Fisheries - 1997
- Para-influenza 3 in calves – Msc. Thesis, Ukraine –1993

### **Major Papers Presented**

- Forestry Biodiversity: Providing benefits for generations. Conserve it, Kampala - 2011
- The rationale of Ecological Sanitation (Ecosan) toilets in informal settlements, Kampala - Uganda, 2008
- Ecological Sanitation: The challenges of solid waste management and its impact on the environment in the urban areas of Uganda, Stockholm – Sweden, 2007
- Embracing the role of cultural leaders in Environmental Management, Mukono 2007
- Mainstreaming of Environment issues in Uganda, 2006
- Decentralised Environmental management in Local Governments: The role of the Police, Mityana, 2005.
- The implications of bush burning in Agriculture, Gent – Belgium, 2004

- Soil and water conservation: Sustainable livestock farming in western Uganda, Mbarara – Uganda, 2003
- Environmental Governance in Uganda, Entebbe – Uganda, 2002
- The state of wetlands in Uganda, Gent - Belgium, 2000
- The role of *Mycorrhiza* in soils, Gent - Belgium, 2000
- Uganda's response to Climate Change, Gent - Belgium, 2000
- Sustainable dairy farming management for farmers in Mukono District, 1998

### **Short courses attended**

<b>Course</b>	<b>Date</b>	<b>Country</b>
Economic Tools for Conservation and Infrastructure Planning in the Albertine Rift	10 <sup>th</sup> to 22 <sup>nd</sup> June 2012	Uganda
Environmental Sanitation and waste management in Developing Countries	23 <sup>rd</sup> August 2010 – 3 <sup>rd</sup> September 2010	Belgium
Land use and remote sensing	12 <sup>th</sup> September – 9 <sup>th</sup> October 2008	Germany
Participatory Planning, Monitoring and Evaluation	4 <sup>th</sup> – 22 <sup>nd</sup> February 2008	Netherlands
Ecological Alternatives in Sanitation	17 <sup>th</sup> September – 5 <sup>th</sup> October 2007 7 <sup>th</sup> – 18 <sup>th</sup> April 2008	Sweden South Africa
Waste water management and reuse	16 <sup>th</sup> August 2004 to 27 <sup>th</sup> August 2004	Belgium
How to write a convincing proposal	13 <sup>th</sup> October 2003 to 17 <sup>th</sup> October 2003	South Africa
Partnership and resource mobilisation for farmer, research and radio linkages	13 <sup>th</sup> October 2002 to 23 <sup>rd</sup> October 2002	Ghana
Information and Communication management	22 <sup>nd</sup> August to 21 <sup>st</sup> September 2001	Malaysia
Project development and resource mobilisation	27 <sup>th</sup> February 2001 to 2 <sup>nd</sup> March 2001	Uganda
Regional management skills	4 <sup>th</sup> February 2001 to 14 <sup>th</sup> February 2001	Uganda
Leadership for Change	19 <sup>th</sup> July 1998 to 1 <sup>st</sup> August 1998	Uganda
Enhancement of Veterinary Skills	11 <sup>th</sup> May 1998 to 22 <sup>nd</sup> May 1998	Uganda
Agricultural extension	1 <sup>st</sup> November 1997 to 13 <sup>th</sup> December 1997	Uganda

**Membership to professional organisations:**

- Association of Uganda Women Professionals in Agriculture and Environment – Executive member
- Uganda Veterinary Association – Member
- National Eco-Farming Association, Uganda Chapter – Member

**Referees:**

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