FLORA E. OLAIFA

CURRICULUM VITAE

1	(a)	Name:	Flora Eyibio Olaifa
	(b)	Date of Birth:	19 May, 1962
	(c)	Department:	Aquaculture and Fisheries Management
	(d)	Faculty:	Renewable Natural Resources
II	(a)	First Academic Appointment:	Assistant Lecturer (8 September, 1997)
	(b)	Present Post (with date):	Professor (1 October, 2019)
	(c)	Date of Last Promotion:	1 October, 2019
	(d)	Date last considered (in cases where promotion was not through):	Not Applicable

III University Education (with Dates):

University of Ibadan, Ibadan	1981-1986
University of Ibadan, Ibadan	1995-1997
University of Ibadan, Ibadan	1997-2004

IV Academic Qualifications (with dates and granting bodies):

B.Sc. Agriculture (Animal Science) (Ibadan)	1986
M.Sc. Animal Science (Ibadan)	1997
Ph.D. Fisheries Management (Ibadan)	2004

V Professional Qualifications and Diplomas (with dates):

Certificate of Training in Participatory Fisheries Management	2005
Certificate of training on Trans-Boundary Fisheries Governance	2010
Nigerian Institute of Animal Science, Registered Animal Scientist (RAS)	2014
Certificate on Introductory Genomics	2017
Certificate on Basic Bioinformatics	2017
Introductory Policy Communications	2019

VI Scholarships, Fellowships and Prizes with dates in respect of undergraduate and postgraduate work only):

Cross River State Bursary Award, 1984/85 Session

VII Honours, Distinctions and Membership of Learned Societies:

(a)	Member, Organization for Women in Science for the Developing World (OWSD)	1998
(b)	Member, Gender, Science and Technology (GASAT)	1999
(c)	Netherlands Fellowship (NUFFIC)	2005
(d)	MacArthur-sponsored Training for Staff in Information and Communication Technology, University of Ibadan	2009
(e)	Netherlands Fellowship (NUFFIC)	2010
(f)	Member, Society of Conservation Biology	2008
(g)	Member, Society of Toxicology	2011
(h)	Member, Fisheries Society of Nigeria	2013
(i)	Member, Animal Science Association of Nigeria	2014
(j)	Registered Animal Scientist (RAS)	2014

(k) Member, Association of Nigeria Fisheries Scientists (ANIFS) 2018

VIII Details of Teaching/ Work Experience:

(a) Work Experience:

Assistant Lecturer, University of Ibadan	1997- 2000
Lecturer II, University of Ibadan	2000-2003
Lecturer I, University of Ibadan	2003- 2008
Senior Lecturer, University of Ibadan	2008- 2013
Reader, University of Ibadan	2013- 2019
Professor	2019-date

(b) Courses Taught:

Undergraduate:

Course Code and Description	Units
WFM 312 Metabolic Interrelationships in Fish and Wildlife 1997 - 2013	3 J
AFM 300 Fish Biochemistry 2014 to date	3 J
AFM 316 Limnology 1997 to 2016/ 2017 session	2 J
AFM 317 Hydrobiology 2013/14 to 2015/2016 session	2 J
AFM 324 Fish Adaptation and Physiology 2013/14 to 2016/17 session	2 J
AFM 329 Fish Nutrition 2017- 2019	2 J
AFM 327 Fisheries Environmental Impact Assessment 2017/2018 Session	2 J
AIT 401 Agricultural Industrial Attachment 2014 - date	6 J
AFM 425 Fish Nutrition and Fish Food Techniques 2014 to date	3 J
AFM 428 Techniques in Fish Processing and Utilization 2014 to 2017	3 J
AFM 430 Analytical Techniques in Fisheries Management 1997 to date	3 J
AFM 527 Water Quality Management and Pollution Control 1998 - date	2 J
AFM 519 Nigerian Feeds and Feeding stuffs 1997 - date	2 J
AFM 516 Fisheries Technology, Processing and Quality Assurance 2001-2016.	2 J
AFM 500 Undergraduate Seminar 1997-date	2 J
AFM 529 Special Project 1998 - date	4 J

Postgraduate Courses:

BDM 719 Ecotoxicology in Biodiversity Management 1998 - date	2 J
BDM 720 Limnology of Aquatic Habitats 1998 - date	2 J
AFM 716 Advanced Fish Post Harvest Technology and Food Safety 2014- date	3 J
AFM 718 Water Quality and Environmental Management 2014 – date	2 J
FIS 717 Limnological Methods 2010/2011Session	3 J
AFM 725 Advanced Techniques in Fish Nutrition 2014 -date	3 J
AFM 700 Special Topics in Aquaculture and fisheries Management 1997-date	2 J

J = Jointly taught

Students' Project Supervision:

Completed	In Progress

B. Sc	22	4
PGD	1	-
M. Sc	14	3
M.Phil	-	1
M.Phil/PhD	1	2
Ph. D	4	2

(c) Administrative Responsibilities:

Departmental Examination/Undergraduate Coordinator	1997-1998
Member, Departmental Postgraduate Committee	2007-date
Congregation Representative in Senate	2006-2008
Departmental Examination/Undergraduate Coordinator	2008-2011
Congregation Representative in Senate	2008-2010
Member, Fish Farm Management Committee	2016-date
Member, Departmental Publication Committee	2018-date
Member, Departmental Examinations Vetting Committee	2018-date
Member, Departmental Staff Student Liaison Committee	2018-date
Head of Department	2023-date

(d) Community Service:

Congregation Representative, Board of the International School, Ibadan	2008 - 2010
Treasurer and Member of National Executive Committee, University of Ibadan Alumni Association	2018 - 2022
Chair, National Lecture Planning Committee, University of Ibadan Alumni Association	2018 - 2020.

1X Research:

(a) Completed:

i. Effects of spilled petroleum on Cross River and Akwa Ibom water, sediments and fisheries.

ii. An Assessment of the effects of brewery effluents on Majawe River in Ibadan, Oyo State.

iii Physicochemical Studies of Awba and Eleiyele Lakes in Ibadan over a five-year period.

(b) In Progress:

i. Phytoremediation technologies are cost-effective methods of cleaning contaminated sites. Phytoremediation potentials of Bracken fern (*Pteridium aquilinum*) during chronic exposure to sub lethal concentrations of lead and bioaccumulation in catfish (*Clarias gariepinus*) Juveniles were tested. Lead is a non-essential heavy metal which can harm man and animals, an important constituent of industrial wastes to which aquatic animals are exposed. This study was undertaken to assess the physicochemical characteristics of water, haematology, histology and bioaccumulation of lead into tissues of *Clarias gariepinus* and *P. aquilinum* during a chronic exposure to low concentrations in water. The concentration of lead in tissues of *C. gariepinus* and *P. aquilinum* increased with longer period of exposure. The highest concentration of lead was observed in the gills of the fish. The study lasted for 28 days. This work is being prepared for publication.

(ii) Assessment of Heavy Metals in water and Four Fish Species in Epe Lagoon, Lagos, Nigeria. Fish provide quality protein and nutrients for man and livestock. Heavy metals-mercury, cadmium, copper, cobalt, lead and zinc are persistent and can accumulate in fish. This study was undertaken to assess the percentage abundance, condition factor, length-weight relationships and concentrations of heavy metals in whole fish, gills, kidney and liver of the four fish species in Epe Lagoon, Lagos State, Nigeria. Samples of *Gymnarchus niloticus*, *Oreochromis niloticus*, *Synodontis* spps and *Mormyrus rume* were obtained randomly from the main landing site at Epe Lagoon and tested for contents of five heavy metals: Cadmium, Lead, Chromium, Cobalt and Nickel. Cadmium and nickel were present in fish at higher concentrations than allowable limits. This work is being prepared for publication.

(iii) Assessment of Organochlorine pesticide residues in water and fish species from rivers in southwestern Nigeria. The presence of organochlorine pesticides in food fish and water is a major food safety concern. These studies aim to determine the levels of pesticide residues in fish in south western Nigeria in an attempt to create awareness. Preliminary results have shown that Endosulfan is the most predominant pesticide residue in three fish species namely *Oreochromis niloticus*, *Hepsetus odoe* and *Clarias gariepinus* in Eleiyele Lake. The highest levels of the pesticides have been observed in *O. niloticus*. This is an ongoing field study which will be conducted for the next three years starting from May, 2019 and will involve Eleiyele, Asejire lakes and other water bodies in south western Nigeria.

(c) Project, Dissertation and Thesis:

(i) Inyang, F. E. (1986). Growth of Crossbred N'Dama x German Brown calves fed yam peels and *Gliricidia sepium* leaves. B.Sc. Project, Department of Animal Science, University of Ibadan. 65pp.

(ii) Olaifa, F. E. (1997). Calcium and Phosphorus Requirements of laying hens in the Tropics. M. Sc. Project, Department of Animal Science, University of Ibadan. 80pp.

(iii) Olaifa, F. E. (2004). Impact of Oil Spillage on the Fisheries Resources of Cross River and Akwa Ibom States, Nigeria. Ph.D. Thesis, Department of Wildlife and Fisheries Management, University of Ibadan. 325pp.

Major Conferences Attended with Papers Read (in the last 5 years)

1. American Chemical Society and Nigeria International Chemical Sciences Chapter, 21-24 February, 2016, University of Ilorin, Nigeria.

   Paper Read: Nutritional Evaluation, growth performance and possible utilization of *Areca catechu* seed flour as an additive for catfish fingerlings (*Clarias gariepinus*).

2. World Aquaculture Society Conference, June 26-30, 2017, Cape Town, South Africa.

   Paper Read: Growth performance, nutrient digestibility and utilization of African catfish fed diets supplemented with *Tamarindus indica* L. as dietary feed additive.

3. 32nd Annual Conference of the Fisheries Society of Nigeria (FISON) held on 23-28 October, 2017 at Nnamdi Azikiwe University, Awka, Anambra State.

   Paper Read: Length- weight relationships and condition factors of *Clarias gariepinus* from Gbalegbe River, Delta State.

4. Biodiversity Conservation Conference, Nigeria Chapter of Society for Conservation Biology (NSCB), 6-12 May, 2018. University of Uyo, Nigeria.

   Paper Read: Phytoplankton species composition, Distribution Abundance and Diversity in Gbalegbe River, Delta State, Nigeria.

5. 1st Annual Conference of the Association of Nigerian Fisheries Scientists (ANIFS), University of Ibadan, Nigeria from 10-12 July, 2018. Faculty of Agriculture & Forestry, University of Ibadan, Nigeria.

   Paper Read: Physico-chemical, heavy metal and microbial analysis of Awba Dam Water, University of Ibadan, Nigeria.

6. 2nd Society of Environmental Toxicology and Chemistry (SETAC), Africa; Central/ West Africa Regional Conference, Environmental Sustainability and Pollution Control Through Science, 7-11 October, 2018, Centre for African Wetlands, University of Ghana, Legon, Ghana.

   Papers Read: 1) Heavy metal (Hm) Concentrations in water and sediment of Gbalegbe River, Delta State, Nigeria.

2) Biochemical changes in *Clarias gariepinus* juveniles exposed to sub lethal concentrations of lead and zinc chloride in water with and without Bracken fern (*Pteridium aquilinum*).

7. 18th International Science, Technology, Education, Arts, Management and The Social Sciences(iSTEAMS) Conference in collaboration with ICITD, Southern University, Baton Rouge, USA, 28-30 July, 2019 at Balme Library Conference Room, University of Ghana, Ghana.

   Paper Read: Haematological, Biochemical and histopathological Responses of African catfish *Clarias gariepinus* juveniles to sublethal concentrations crude oil in water.

8. 2nd General Meeting of African Network for Aquaculture In Africa (ANAF) organised by InterAfrican Bureau for Animal Resources, African Union at Lake Naivasha Resort, Naivasha, Kenya , 15-17 January 2024.

9. Stakeholder Consultative and validation Workshop to define Priority Issues for Development of National Blue Economy Strategy For Nigeria held at Chelsea Hotel, Abuja, 8-10 April, 2024

9. Invitation to Broad based Stakeholders' Consultative Final Validation Workshop for the Draft National Blue Economy Strategy for Nigeria Organised by InterAfrican Bureau for Animal Resources on 14-16 October 2024 in Abuja

10. Validation workshop for the National Fisheries and Aquaculture Policy, organised by the Federal Department of Fisheries, WorldFish and IFPRI-Nigeria on12-13 November, 2024

11. 2nd Meeting of the African Network of Centres of Excellence in Fisheries, Aquaculture and Aquatic Biodiversity (AUN-CEFAAB) on 2-3 December 2024 African Union Complex, Addis Ababa, Ethiopia

XII. Ten Best Publications that Reflect the Totality of my Contributions to Scholarship

1. **Olaifa, F. E.,** Olaifa, A. K., Adelaja, A. A., Owolabi, A. G. (2004). Heavy Metal Contamination of *Clarias gariepinus* from a Lake and Fish Farm in Ibadan. *African Journal of Biomedical Research*, Volume 7: 145-148. (Nigeria) (Contribution: 40%).

2. **Olaifa, F. E.** (2005-2006). Hydrocarbon and heavy metal pollution of water and sediments of Cross River and Akwa Ibom Coastal Waters, Nigeria. *Journal of Environmental Systems* (Special Issue) Vol. 32 (1): 27-36. (United States of America) (Contribution: 100%).

3. **Olaifa, F. E.** and Bello, O. S. (2011). Effect of Differently Processed African Yam Beans *Sphenostylis stenocarpa* Harms on Performance of African catfish *Clarias gariepinus* juveniles. *Israeli Journal of Aquaculture*, Bamidgeh, Volume IIC 63: 595-601. (Israel) (Contribution: 60%).

4. **Olaifa, F. E.** (2012). Bioassay using the water-soluble fraction of a Nigerian Light crude oil on *Clarias gariepinus* fingerlings. *Nigerian Journal of Physiological Sciences*, Volume 27:181-187. (Nigeria) (Contribution: 100%).

5. **Olaifa, F.E.** and Omekam, J.A. (2014). Studies on Phytoremediation of copper using *Pteridium aquilinum* (bracken fern) in the presence of biostimulants and bioassay using *Clarias gariepinus* juveniles. *International Journal of Phytoremediation*,16: 219-234. (United Kingdom) (Contribution: 60%)

6. Adeosun, O. **Olaifa, F. E.** and Akande, G. R. (2016). Amino acid profile and polycyclic aromatic hydrocarbons (PAHs) of smoked farmed *Clarias gariepinus* (Burchell, 1822) raised under different culture systems in Ibadan, Nigeria. *Journal of Agricultural Science and Environment (FUNAAB)*, 16 (2) 69-78. (Nigeria) (Contribution: 30%)

7. **Olaifa, F. E** .and Fabusoro, A. A. (2017). Uptake of zinc by *Pteridium aquilinum* (Bracken fern and response of *Clarias gariepinus* juveniles during chronic and sublethal exposure. *Nigerian Journal of Physiological Sciences*, 32 (1) pp 37-46. (Nigeria) (Contribution: 60%).

8. Adeniyi, O.V., **Olaifa, F. E.** and Emikpe, B. O. (2017). Effect of *Tamarindus indica* (Linn, 1753) Pulp and Leaf- Fortified Diets on Experimental *Aeromonas hydrophila* infection in *Clarias gariepinus* (Burchell, 1822). *Bulletin of Animal Health and Production in Africa*, 65, 623-633. (Kenya) (Contribution: 50%).

9. Adeniyi, O.V., **Olaifa F. E.,** Emikpe, B. O. (2018). Growth Performance and Nutrient Digestibility of African Catfish, *Clarias gariepinus* Burchell 1822 fed diets fortified with *Tamarindus indica* pulp and leaf meals as dietary feed additives. *Asian Fisheries Science Journal, Asian Fisheries Society* 31: 17-31. (Malaysia) (Contribution: 40%).

10. Adeniyi, O.V., **Olaifa, F.E.,** Emikpe, B.O. and Oyagbemi, A.A. (2018). Experimental evaluation of the wound healing and antioxidant activities of tamarind (*Tamarindus indica*) pulp and leaf meal in African catfish (*Clarias gariepinus*). *Acta Veterinaria Eurasia*, 44: 63-72 pp. (Turkey) (Contribution: 30 %)