



Position: Senior Research Scientist

Educational Background:

BSc Natural Resources Management (Fisheries, Watershed Management, Aquaculture)

M Phil. Biological Sciences (Fish Population Genetics, Biodiversity)

Profile

Theodore Quarcoopome is a Senior Research Scientist of the Fishery and Aquaculture Division of CSIR-Water Research Institute. He obtained his Bachelor of Science degree in Natural Resources Management majoring in fisheries, watershed management and aquaculture from the Institute of Renewable Natural Resources of the Kwame Nkrumah University of Science and Technology (KNUST), Kumasi in 1994. He obtained his Master of Philosophy in Biological Sciences from the Kwame Nkrumah University of Science and Technology, (KNUST), Kumasi in 2001 majoring in fish population genetics and biodiversity. He has a certificate in strategic planning from the University of Cape Coast Organizational Capacity Improvement Consultants Partnership Organization Development Programme, a certificate in Environment, Health and Safety Auditing Skills from GOT Performance Solutions, USA, a certificate in Biodiversity Clearing House Mechanism from Ministry of Environment, Science, Technology & Innovation, UNEP & GEF, and an International Certified Manager Programme (ICMP) certificate from Accra, Oxford and Dubai.

He has over 2 decades of research experience in fish and fisheries of inland waters (reservoirs, rivers, tributaries, lakes and water storage dams) and coastal waters (lagoons, and estuaries). The summary of work he has undertaken include fish population characteristics, fish community structure, fish biodiversity, fish ecology as well as assessment of fisheries of inland and coastal waters.

Others include fish monitoring in relation to OCP larviciding; effect of salt winning on coastal biodiversity; ecological studies of inland waters; genetic characterization of tilapia in coastal waters; fecundity of black-chinned tilapia in coastal waters; productivity and potential fish yield of inland and coastal waters; limnology of inland waters, and determination of raw water quality

criteria and guidelines in relation to fish, aquaculture and protection of aquatic environment.

Professional Summary

He has conducted over two decades of research work in fish and fisheries of inland waters (reservoirs, rivers, tributaries, lakes and water storage facilities) and coastal waters (lagoons, and estuaries). The summary of work he has undertaken includes fish population characteristics, fish community structure, fish biodiversity, fish ecology as well as assessment of fisheries of inland and coastal waters. Others include fish monitoring in relation to Onchocerciasis Control Programme (OCP) larviciding; effect of salt winning on coastal biodiversity; ecological studies of inland waters; genetic characterization of tilapia in coastal waters; fecundity of black-chinned tilapia in coastal waters; productivity and potential fish yield of inland and coastal waters; limnology of inland waters, and determination of raw water quality criteria and guidelines in relation to fish, aquaculture and protection of aquatic environment. His research interests and areas of collaboration include fish biology, biodiversity and ecology; fish stock assessment; fish monitoring and assessment of inland and coastal waters, and fisheries of inland and coastal waters.

Research Interests and Areas of Collaboration

- Fish Biology, Biodiversity and Ecology of inland and coastal waters
- Fish Stock Assessment of inland and coastal waters
- Fisheries of inland and coastal waters
- Fish monitoring of inland and coastal waters
- Limnology of inland and coastal waters
- Environmental Impact Assessment of inland and coastal waters

Publications

1. Quarcoopome, T. & Asmah, R. (2018). Potential Fish Yield and Physico-chemical Characteristics of Weija Reservoir in Ghana. *Ghana J. Agric. Sci.* 53:
2. Quarcoopome, T. (2017). Length-weight relationship, Condition Factor, and Sex Ratio of Two *Chrysichthys* species (Pisces: Claroteidae) of Socio-economic Importance from Kpong Reservoir. *Ghana J. Sci.* 57: 13 - 22.
3. Quarcoopome, T. & Owiredu S. A. (2016). Aspects of the Fecundity of the Black-chinned tilapia *Sarotherodon melanocheilus* in the Fosu Lagoon, Ghana. *Ghana J. Sci.* 56: 15 – 24.
4. Dankwa H. R., Quarcoopome T., Owiredu S. A., Amedorme, E. (2016). State of Fish and

Fisheries of Fosu Lagoon, Ghana. *International Journal of Fisheries and Aquatic Studies*, 4 (2): 259 - 264.

5. Quarcoopome, T. (2016). Relative Abundance, Length-weight Relationship, Condition Factor and Sex Ratio of Cichlid species (Pisces: Cichlidae) from Weija Reservoir in Ghana. *International Journal of Fauna and Biological Studies*, 3(3): 166 – 174.

6. Quarcoopome, T., Amevenku, F. K. Y. & Ofori-Danson, P. K. (2011). Changes in the Fish Community of the Kpong Headpond, Lower Volta River, Ghana After 25 Years of Impoundment. *International Journal of Tropical Biology* 59(4) 1685 - 1696.

7. Quarcoopome, T. & Amevenku, F. K. Y. (2010). Fish Community Structure of Weija Reservoir After 28 Years of Impoundment. *Journal of Applied Science & Technology* 15 (1 & 2): 126 - 131.

8. Quarcoopome, T. & Amevenku, F. K. Y. (2010). Assessment of the Fish and Fishery Resources of the Kpong Headpond. *W. African J. Applied Ecol.* 16: 51 - 63

9. Asante, K. A., Quarcoopome, T. & Amevenku, F. K. Y. (2008). Water Quality of Weija Reservoir After 28 Years of Impoundment. *W. African J. Applied Ecol.* 13: 171 - 180.

10. Quarcoopome, T., Amevenku, F. K. Y. & Ansa-Asare, O. D. (2007). Fisheries and Limnology of Two Reservoirs in Northern Ghana, *W. African J. Applied Ecol.* 12: 61 - 80.

11. Amevenku, F. K. Y. & Quarcoopome, T. (2006). Fish and Fisheries of Libga and Bontanga Reservoirs in Northern Ghana, West Africa. *West African Journal of Applied Ecology*, Vol. 10: 9 - 19.

12 Quarcoopome, T. & Frempong, E. (2003). Genetic Structure of Populations of Black-chinned Tilapia, *Sarotherodon melanotheron melanotheron*, (Pisces: Cichlidae) in

13 Ghanaian Coastal Waters. *J. Ghana Sci. Assoc.* 5(1): 112 – 121.