



Degrees

Bsc, Labtech (UCC,Ghana), MPhil, Env.Sc.(University of Ghana)

Research Interests

Environmental Pollution Monitoring with special interest in Trace and Heavy metals, water quality assessment.

Current Research

My research focuses on sources, mechanism, both temporal and spatial distribution of trace and heavy metals in the environment with respect to water, soil/sediments, plant and animal biota. The abusive usage of mercury in small-scale gold mining in Ghana has drawn my attention to investigate the extent of mercury pollution in groundwater, surface water and treated drinking water. Currently working on some coastal lagoons in Ghana which include the Kpeshie and Muni Lagoons the Songor and the Mukwe Lagoons, looking at their pollution status with respect to their respective environments. Geochemical Normalisation method is being employed on the sediments of these Lagoons to determine whether heavy metal pollution is natural or

anthropogenic in these water bodies.

Current Research Projects being worked on include

- .Pollution Assessment of Two Lagoons in Ghana: A comparative study of the Kpeshie and the Muni Lagoons .
- Comparative Pollution and Ecological Assessment of Mukwe and Songorh Lagoons in Ghana.

Publications

1. Essuman K and **Dorleku M.** (2012). Mercury and silver levels in Mussels, Red-mouth Rockshell, sediment, and water samples along the Sakumono II, Kpeshie and Muni Lagoons in Ghana. Blue Biotechnology Journal vol.1 no2 Nova Sc.

2. Affum A. O, Osae D.S, Nyarko J. B, Affull, Fianko J.R, Akiti T., Adomako D., Acquaaah D.S., **Dorleku M.**, Antoh E., Barnes F., and Affum E.A.,(2015).Total coliforms, arsenic and cadmium exposure through drinking water in the Western Region of Ghana: application of multivariate statistical technique to groundwater quality. Env. Mon. Assessment 187: DOI 10.1007/s 10661-014-4167-x

3. **Dorleku M.**,(2013). Ground water contamination by small scale mining with toxic metals in the Lower Pra Basin. Unpublished M.Phil thesis, submitted to the Institute for Environmental and Sanitation Studies, University of Ghana.

4. Markwo Ali, Abdul-Malik Adongo Ayamba, David Edem Dinku, Derick Carboo, Frederick Justice Awuku,

Michael Dorleku (2017).

Migration of Inorganic Antimony

into Polyethylene Terephthalate Bottled Water Marketed in the Greater

Accra

Region of Ghana

Journal of Natural Sciences Research ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online) Vol.7 No.

5. Collins K.Tay, **Michael Dorleku**, Samuel S. Koranteng (2018). Hydrochemical Evolution of Ground and Surface Water within the Amansie and Adansi Districts of the Ashanti Region, Ghana. West African Journal of Applied Ecology ISSN 0855- 4307 vol 26(2)

6. **M.K Dorleku**, D.Nukpezah, D. Carboo (2018) Effects of small?scale gold mining on heavy metal levels in groundwater in the Lower Pra Basin of Ghana.
Applied Water
Science 8:126 Springer Internationnal.

Micheal Dorleku - [Google Scholar Citations](#)