***CURRICULUM VITAE***

**MIEZAH KODWO**

**UPO. PMB, KNUST**

**DEPARTMENT OF ENVIRONMENTAL SCIENCE, KNUST**

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**PROFILE**

* An all-round, innovative and creative Chemist/Environmentalist/Researcher who enjoys interdisciplinary field of reasoning.
* Dependable and reliable in supporting and producing long-term sustainable development.
* Highly confident, persuasive, motivating team-builder and able to stay focus to achieve results.

**Date of Birth**: 1st September, 1977

**ACADEMIC DEGREES EARNED WITH DATES**

* **PhD Environmental Science,** November, 2017.
* **M.Phil. Environmental Science**, December, 2007.
* **BSc. Chemistry,** August, 2000.

**INSTITUTIONS ATTENDED WITH DATES**

* **Kwame Nkrumah University of Science and Technology, Kumasi, Ghana:** August, 2012 to November, 2017/ **Danish Technical University** (DTU) (Sandwich), 2012 and 2014
* **University of Ghana, Legon-Accra, Ghana:** August, 2004 to December, 2007
* **University of Cape Coast, Cape Coast, Ghana**: September, 1996 to August, 2000

**RELEVANT SHORT COURSES (Over 25 short courses) including:**

* **Certificate in Bio-resource Management and Utilization,** Building Stronger University (BSU) programme with KNUST and universities in Denmark, Kumasi, October, 2015
* **Certificate in Scientific Research Writing/Publication,** Building Stronger University (BSU) programme with KNUST and universities in Denmark, Kumasi, September, 2013
* **Certificate in Quantitative and Qualitative Research Methods,** Building Stronger University (BSU) programme with KNUST and universities in Denmark, Kumasi, June, 2013
* **Certificate in Project Management,** Advanced Project Management Institute, Accra, May, 2012
* **Certificate in Environmental Impact Assessment Course for Consultants,** EPA Training School, Amasaman, 19th- 20th October, 2010

**EMPLOYMENT HISTORY**

1. **Lecturer;** Department of Environmental Science, Faculty of Biosciences, College of Science, KNUST, Kumasi, December, 2019 – Present
2. **Assistant Lecturer**; Department of Environmental Science, Faculty of Biosciences, College of Science, KNUST, Kumasi, December, 2017-2019
3. **Head, Research and Development Department;** Zoomlion Ghana Limited, Head Office, Madina- Accra. January, 2010 - February 2012
4. **Research and Development Officer,** ZoomLion Ghana Ltd., Head office Madina-Accra. December, 2008 - January, 2010
5. **Research Assistant;** A collaborative research project on waste management: ‘The Use of Compost/ Co-compost in Peri –Urban Agriculture’ sponsored by **Ecological laboratory of the university of Ghana, International water management institute (IWMI) and the Swiss national centre for competence in research north south (NCCRNS).** April, 2007- October, 2008.
6. **Teacher;** Achimota Preparatory School, Achimota, Accra. September, 2003- June, 2007
7. **Teacher;** Nsein Senior Secondary School, Axim-Ghana. 2001-2003
8. **National Service-Teacher**; November, Esiama Sec Tech Sch., Esiama western Region-Ghana. 2000- July, 2001

**UNIVERSITY TEACHING AND OR RESEARCH EXPERIENCE:**

**(a) Subjects Taught:**

**Undergraduate:** Environmental Pollution,

Solid Waste Management

Hydrology

Environmental and Health

Ecology of Inland Waters

Environmental Biology

Geochemistry

**Postgraduate (MSc/MPhil)**: Pollution Control and Bioremediation Technologies,

Household and Hazardous Waste Management

Water Quality

Environmental Chemical Processes/Chemistry of Environmental

Systems

**(PhD):** Megacities Development and Waste Management,

Emerging Environmental Challenges and Solutions

(b) **Supervision of student project work/theses/research**

**Undergraduate: 95 final year project work, August, 2017 to May, 2020**

**Postgraduates: 25 MSc Research Thesis**

**9 MPhil. Research Thesis**

**3 Co-supervision of PhD Research Thesis**

**OTHER PROFESSIONALLY RELATED EXPERIENCE**

1. **Examination Officer, Environmental Science Department, January, 2018 to present**
2. **Committee Member, Review of Landfill guidelines for operation in Ghana led by EPA, Ghana**
3. **Committee Member, Review of Municipal Solid Waste Management guidelines in Ghana led by EPA, Ghana**
4. **Committee Member, Hazardous Waste Management Bill Draft by EPA, Ghana**
5. **Member, Board of Directors: Zoompak Ghana Limited, July, 2016 to present**
6. **Member, Ashanti Regional Committee on Clean and Green Environment, November, 2017 to March 2020**
7. **Member, Clean and Green GAMA, Greater Accra Region, April 2020 to Present**
8. **Member, Expert Committee on Ghana NPAP (**Ghana National Plastic Action Roadmap Expert Panel), 2020 to Present.
9. **Member, Waste Platform, Waste Management Expert Platform developed by UNDP, 2019 to present.**
10. **Member, Plastic Management and Recycling Committee, KNUST, 2019 to present**

**DETAILS OF RECENT RESEARCH OR PROJECTS UNDERTAKEN**

1. Household waste to biofuel production: efficient liquefaction of the biodegradable fractions, March 2018 to present.
2. Bioresource potential of the Owabi Catchment area, Ashanti Region, BSU III project, July, 2018 to present.

1. Improvement of quality of composted household waste using formulated amendment materials, January, 2020 to present.

**CURRENT RESEARCH/ AREAS OF RESEARCH**

1. Economic assessment of waste valorization programmes
2. Pollution control along major roads in Ghana.
3. Anaerobic digestion of waste – Focus on improvement of hydrolysis stage
4. Biofuel production from mixed MSW.
5. Water quality assessment
6. Waste Characterization
7. Environment and Health

**CONFERENCES/SEMINARS AND WORKSHOPS**

1. Bernard Fei-Baffoe, Kodwo Miezah, Abdul-Raman Ahmed, Kojo Kwakye Ofori-Amanfo, Daniel Nyarko and Getrude Opoku, Anaerobic digestion of fruit waste from Ghana for Biogas production with efficient utilization of the effluent in agriculture, BSU II Conference on maximizing Stakeholder Involvement in Productive Research and Uptake, 28 – 30th March, 2017 at Golden Bean Hotel, Kumasi, Ghana.
2. Sulemana Alhassan, Kodwo Miezah, Emmanuel A. Donkor, Kofi S. Boateng and George N. Rockson, Customer satisfaction of solid waste collection services: A measure towards effective waste management, The 33rd International Conference on Solid Waste Technology and Management, 11- 14, March, 2018, Annapolis, MD. USA.
3. Expert Speaker WasteMet Asia, A WASH programme organized by government of Singapore, 2012
4. Lead Speaker, Asian Youth Green Association, An inaugural environmental sanitation association of Singapore youth, 2012.
5. Three different presentations on International Solid Waste Association (ISWA) platforms in Hamburg, Germany, 2011; Maryland-USA, 2017, Florence-Italy, 2019.

**RESEARCH GRANT AWARD**

1. BSU II, Anaerobic digestion of fruit waste and efficient utilization of the residual wastes, **Research PI.**
2. BSU III, Harnessing of Bioresource potential of Owabi catchment, **Research Member**
3. DANIDA, Biofuel from lignocellulosic materials in Ghana, 2GBIONRG, **PhD Award**

**INTERNATIONAL AFFILIATIONS**

**Member**

* International Solid Waste Association (ISWA)
* Solid Waste Association of North America (SWANA)
* Society of Petroleum Engineers (SPE)
* Africa Research and Impact Network (ARIN)