CURRICULUM VITAE

**1.0 PERSONAL DETAILS**

**NAME:** PROF.KWAANSA-ANSAH, EDWARD EBOW (Ph.D)

**ADDRESS**:

Department of Chemistry **e-mail**: eekwaansa-ansah.cos@knust.edu.gh

College of Science eekwaansaansah@yahoo.com

Kwame Nkrumah University of Science and Technology

Kumasi, Ghana **Phone**: +233 262 298182

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**DATE AND PLACE OF BIRTH:** 25th November, 1965. Sefwi-Wiawso

**NATIONALITY:** Ghanaian

**MARITAL STATUS:** Married

**2.0 EDUCATION**

2015**Ph.D. in Analytical Chemistry**

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

1998 **Master of Science in Analytical Chemistry**

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

1991 **Bachelor of Science in Chemistry**

Kwame Nkrumah University of Science and Technology, Kumasi, Ghana.

1986 **G.C.E. Advanced Level**

Sekondi Secondary School, Sekondi-Takoradi, Ghana

1984 **G.C.E. Ordinary Level**

Ghana Secondary Technical School, Takoradi, Ghana

**FURTHER EDUCATION**

2010. **Visiting Scholar**

University of Michigan African Presidential Scholars Program

Department of Environmental Health Sciences, School of Public Health.

University of Michigan, Ann Arbor, MI, USA

**3.0 WORK EXPERIENCE**

2015 – 2018 **Hall Master**

University Hall of Residence, KNUST, Kumasi, Ghana

2013 – Date **Senior Lecturer**

Department of Chemistry, KNUST, Kumasi, Ghana

1999 – 2013 **Lecturer**

Department of Chemistry, KNUST, Kumasi, Ghana

1994 – 1999 **Tutor/Housemaster**

Technology Secondary School, Kumasi, Ghana

1991 – 1993 **Tutor/Assistant Headmaster**

Sefwi Asawinso Senior Secondary School, Sefwi Asawinso, Ghana.

1987 – 1988 **Tutor**

Sefwi-Wiawso Secondary School, Sefwi-Wiawso, Ghana

1986 – 1987 **Laboratory Assistant**

Sekondi Secondary School, Sekondi-Takoradi, Ghana

**4.0 MEMBERSHIP OF PROFESSIONAL BODIES**

1. Member, Ghana Science Association
2. Member, Ghana Chemical Society
3. Member, University Teachers Association of Ghana
4. **RESEARCH AREA** *Analytical Chemistry and Environmental Toxicology*

**CURRENT RESEARCH**

1. *Distribution, mobility and speciation of mercury in the Volta basin*

*of Ghana.*

1. *Environmental and Occupational Exposures to Mercury in Artisanal Small Scale Mines*
2. *Veterinary Drug Residue in Meat*
3. *Pesticides residues in Fish*

**6.0 SUMMARY OF COURSES TAUGHT AT KNUST**

CHEM514 - Environmental Chemistry

CHEM 515-Thermal and Electroanalytical Method

CHEM 461 - Instrumental Methods of Analysis II

CHEM 462 - Environmental Chemistry

CHEM 369 - Practical Chemistry V

CHEM 370 – Practical Chemistry VI and Mini Project

CHEM361 - Separation Methods I

CHEM362 - Instrumental Methods of Analysis I

CHEM262 - Electro-analytical Methods I

CHEM 261 -Titrimetric Methods of Analysis

CHEM269 - Practical Chemistry III

CHEM270 - Practical Chemistry IV

CHEM169 - Practical Chemistry I

CHEM170 - Practical Chemistry II

CHEM151 - Basic Inorganic Chemistry

CHEM155 - Basic Physical Chemistry I

CHEM 156 - Basic Physical Chemistry II

**7.0 PUBLICATIONS FROM RESEARCH ACTIVITIES**

1. A.A. Golow, **E.E. Kwaansa-Ansah.** Comparison of Lead and Zinc levels in the hair of Pupils from four towns in the Kumasi Municipal area of Ghana. [Bull. Environ. Contam. Toxicol. (1994) 53 (3):325- 331]
2. R.B. Voegborlo, D.A. Baah, **E.E. Kwaansa-Ansah**, A.A. Adimado, J.H. Ephraim. Mercury Concentrations in Fish Species from the Gulf of Guinea, Ghana. [Bull. Environ. Contam. Toxicol. (2004) 73:1057 - 1064]
3. **E.E. Kwaansa-Ansah**, R.B. Voegborlo, D.A. Baah. Mercury levels in fish samples from Lake Bosomtwi in Ashanti Region of Ghana. [Materials and Geoenvironment. (2004) 51 (2), 1156]
4. D.A. Baah, R.B. Voegborlo, **E.E. Kwaansa-Ansah**, J.H. Ephraim, A.A. Adimado. Total Mercury in fish from Akosombo and Kpong Hydroelectric Reservoir in Ghana. [Materials and Geoenvironment. (2004) 51, 343-351]
5. R.B. Voegborlo, **E.E. Kwaansa-Ansah**, D.A. Baah, A.A. Adimado, J.H. Ephraim. Mercury concentrations in edible fish from the Atlantic Coast of Ghana. [Materials and Geoenvironment. (2004) 51, 1443- 1451]
6. **E.E. Kwaansa-Ansah**, N. Basu, J.O. Nriagu. Environmental and Occupational Exposures to Mercury among Indigenous People in Dunkwa-On-Offin, a small scale Gold Mining Area in the South -West of Ghana. [Bull. Environ. Contam. Toxicol. (2010) 85:476 – 480]
7. **E.E. Kwaansa-Anash**, S.E. Agorku, J.O. Nriagu. Levels of Total Mercury in Different Fish Species and Sediments from the Upper Volta Basin at Yeji in Ghana. [Bull. Environ. Contam. Toxicol. (2010) 86:406 – 409]
8. Niladri Basu, Dong-Ha Nam, **Edward Kwaansa-Ansah**, Elisha P. Renne, Jerome O. Nriagu. Multiple metals exposure in a Small-scale artisanal gold mining community. [Environmental Research 111 (2011) 463 – 467]
9. **E.E. Kwaansa-Ansah**, R.B. Voegborlo, A.A. Adimado, J.H. Ephraim, J.O. Nriagu. Effect of pH, Sulphate Concentration and Total Organic Carbon on Mercury Accumulation in Sediments in the Volta Lake at Yeji in Ghana. [Bull. Environ. Contam. Toxicol. (2012) 88(3):418 – 421]
10. **Edward Ebow Kwaansa-Ansah**, Anthony Apeke Adimado, James Hawkins Ephraim. Distribution of Mercury in Water, Sediment and Fish from the Volta Lake and its major Tributaries. [J Environ Occup Sci (2012); 1 (1):27 – 36]
11. **E.E. Kwaansa-Ansah**, J. Akoto, A.A. Adimado, D. Nam. Determination of Toxic and Essential Elements in Tilapia Species from the Volta Lake with Inductively Coupled Plasma – Mass Spectrometry. [IJEP Vol. 2 Iss.7 2012 pp30 - 34]
12. **E.E. Kwaansa-Ansah**, N.K. Asare-Donkor A.A. Adimado, D. Nam. Evaluation of Mercury and Selenium concentrations in the edible tissue of freshwater fish from the Volta Lake, Ghana. [J. Environ. Occup. Sci. (2013); 2 109-118]
13. **E. E. Kwaansa-Ansah,** F. Opoku., S. Agyare, M. D. Sarpong. Leaves of roadside plants as bioindicators of traffic related lead and manganese pollution during different seasons in Kumasi and its environs. [Ghana Journal of Chemistry (2014) Vol. 2, No. 1 Pp 74 – 86.]
14. **E. E. Kwaansa-Ansah,** F. Opoku, S. M. Aseidu, E. Ampong. Pesticides residues and radionuclides in cow milk sampled from Kumasi, Ghana.[Ghana Journal of Chemistry, (2014) Vol. 2, No. 1Pp.1 - 9]
15. Noah Kyame Asare‑Donkor, **Edward Ebow Kwaansa‑Ansah**, Francis Opoku and Anthony Apeke Adimado. Concentrations, hydrochemistry and risk evaluation of selected heavy metals along the Jimi River and its tributaries at Obuasi a mining enclave in Ghana. [Environ. Syst. Res. (2015) 4:12-26]
16. **Kwaansa-Ansah E.E,** Agyemang D, Opoku F. Mercury in Different Tissues of Grey Herons (Ardea cinerea) from the Volta Lake, Ghana. [J Marine Sci Res Dev 2015, 5:4-7]
17. Eric Selorm Agorku, **Edward Ebow Kwaansa‑Ansah**, Ray Bright Voegborlo, Pamela Amegbletor, Francis Opoku. Mercury and hydroquinone content of skin toning creams and cosmetic soaps, and the potential risks to the health of Ghanaian women. [Springer Plus (2016) 5:319-323]
18. R.S. Ngumbu, R.B. Voegborlo, **E.E. Kwaansa-Ansah.** Health risk analysis of Mercury, Lead and Cadmium in some Commercial fish species collected from Markets in Monrovia. Liberia. [International Journal of Advances in Life Science and Technology, (2016), 3(1):1-8]
19. **Edward Ebow Kwaansa-Ansah**, Anthony Apeke Adimado, Jerome Okon Nriagu, Niladri Basu. Comparison of Three Analytical Methods for the Quantitation of Mercury in Environmental Samples from the Volta Lake, Ghana. [Bull. Environ. Contam. Toxicol. (2016) 97(5):677 – 683]
20. A.O. Affum, S.O. Dede, B.J.B. Nyarko, S.O. Acquaah, **E.E. Kwaansa-Ansah**. Influence of Small-Scale Gold mining and Toxic Element Concentration in Bonsa river Ghana: A potential risk to water quality and Public Health. [Environmental Earth Sciences. (2016) 75(2):178 – 187]
21. **Edward Ebow Kwaansa-Ansah**, Leticia Peace Amenorfe, Edward Kwaku Armah, Francis Opoku. Human health risk assessment of cyanide levels in water and tuber crops from Kenyasi, a mining community in the Brong Ahafo Region of Ghana. [International Journal of Food Contamination (2017) 4:16-26]
22. R.S. Ngumbu, R.B. Voegborlo, **E.E. Kwaansa-Ansah.** Levels of some Essential Heavy Metals in Commercially important fish species collected from Monrovia, Liberia. [International Journal of Scientific Research in Science and Technology. (2017) 3(1): 31-35]
23. **E.E. Kwaansa-Ansah**, E.K. Armah, F. Opoku. Levels of Exposure of Occupational Respirable Dust to Underground Gold Mine Workers in Ghana. [Glob. Environ. Health Saf. (2017) 1(1):10-15]
24. Andrews Obeng Affum, Samuel Osafo Acquaah, Shiloh Dede Osae, **Edward Ebow Kwaansa-Ansah.** Distribution and risk assessment of banned and other current-use pesticides in surface and groundwaters consumed in an agricultural catchment dominated by cocoa crops in the Ankobra Basin, Ghana. [Science of the Total Environment 633 (2018) 630–640]
25. **Edward Ebow Kwaansa-Ansah,** Samuel Owusu Nti, Francis Opoku. Heavy metals concentration and human health risk assessment in seven commercial fish species from Asafo Market, Ghana. [Food Science and Biotechnology. (2018): https://doi.org/10.1007/s10068-018-0485-z]
26. **E.E. Kwaansa–Ansah**, D. Nkrumah, S.O. Nti, F.Opoku. Adsorption of Heavy Metals (Cu, Mn, Fe and Ni) from Surface Water using Oreochromis Niloticus Scale. [Pollution (2019) 5(1): 115-122]
27. **E.E.Kwaansa-Ansah,** Edward Kwaku Armah, Francis Opoku. Assessment of Total Mercury in Hair, Urine and Fingernails of Small-Scale Gold Miners in the Amansie West District, Ghana.[J. Health and Pollution (2019) 9 (21)]
28. Andrews Obeng Affum,Shiloh Dede Osae, **Edward Ebow Kwaansa-Ansah**, Michael K. Miyittah. Quality assessment and potential health risk of heavy metals in leafy a non-leafy vegetables irrigated with groundwater and municipal-waste-dominated stream in the Western Region, Ghana [Heliyon 6 (2020) e05829]

**10. CONFERENCES/SEMINARS/WORKSHOPS**

**E.E. Kwaansa-Ansah.,** D. Agyemang., A.A. Adimado.

*Distribution of Mercury in different tissues of fish eating birds along the Volta Lake in Ghana.*

(4th International Symposium in Africa, School of Veterinary Medicine, University of Zambia, Lusaka. 2nd – 4th September, 2012).

**E.E. Kwaansa-Ansah.,** A.A. Adimado., J.H. Ephraim.

*Distribution of Mercury in Water, Sediment and Fish from the Volta Lake and its major Tributaries.* (2nd Science, Technology, Engineering and Mathematics (STEM) in Africa Conference. Kwame Nkrumah University of Science and Technology, Kumasi. 28th – 31st May, 2012).

**E.E. Kwaansa-Ansah.,** J. Akoto., A.A. Adimado., D. Nam.

*Determination of Toxic and Essential Elements in Tilapia Species from the Volta Lake with Inductively Coupled Plasma-Mass Spectrometry.*

(3rd International Symposium in Africa, School of Veterinary Medicine, University of Zambia, Lusaka. 3rd – 5th September, 2011).

**E.E. Kwaansa-Ansah.,** A.A. Adimado., J.H. Ephraim

*Accumulation of Mercury in Fish at Different Trophic levels in the Volta Lake, Ghana.*

(1st Science, Technology, Engineering and Mathematics (STEM) in Africa Conference. University of Michigan, Ann Arbor, USA. 28th – 31st May, 2010).

**E.E. Kwaansa-Ansah.,** H.M. Otoo., Y. Ayarkwa

*Evaluation of Cholesterol Levels in Sausages from some Major Grilling Spots in the Kumasi metropolis*. (26th Biennial Conference of Ghana Science Association, University of Cape Coast, Cape Coast. 4th – 9th August, 2009).

**E.E. Kwaansa-Anash**, S.E. Agorku, J.O. Nriagu.

*Levels of Total Mercury in Different Fish Species and Sediments from the Upper Volta Basin at Yeji in Ghana.*

(2nd College of Science Biennial Conference, Ho. 10th – 13th July, 2008).

**SERVICE TO COMMUNITY**

**International and National**

Zonal Leader, West African Examinations Council

Examiners Team Leader, West African Examinations Council

Item Writer and Moderator, West African Examinations Council

Assistant Examiner, West African Examinations Council

Reviewer –African Journal of Food Science and Technology

Reviewer – African Journal of Pure and Applied Chemistry

Reviewer – Journal of Basic and Applied Sciences

Reviewer – Asian Journal of Fisheries and Aquatic Research

Pesticides, Environment and Public Health Conference Coordinator

Ghana Students Chemical Society KNUST Branch, Patron

National Union of Sefwi Students, Patron

**University**

1. Departmental Board Secretary 2002 – 2006

2. Assistant Departmental Examination Officer 2002 – 2006

3. Departmental Examination Officer 2006 – 2008

4. Faculty of Physical Sciences Examinations Officer 2008 – 2010

5. Member, University Examinations Coordinating Committee 2008 – 2010

6. Acting College Examinations Officer September 2010 – December 2010

7. Member, Pre-Science Program - College of Science 2008 – 2015

8. Member, Pre-Science Engineering Program - College of Engineering 2008

9. Examination Centre Coordinator – College of Science 2010 – Date

10. Member, University Hall Council 2012 – Date

11. Lead Facilitator, Pre Bridging Programme – Institute of Distance Learning. 2015

12. Member, Access Programme for Health Professionals - Institute of Distance Learning. 2014 - Date

13. Member, Committee to investigate missing Computers at Physics Department 2015

14. Hall Master, University Hall 2014 – 2018

15. Member, Committee of Hall Administrators, KNUST 2015 – 2018

16. Member, Residence Committee, KNUST 2015 – 2018

17. Member, Health Service Management Committee, KNUST 2017 – 2018

18. Chairman, Committee of Hall Administrators, KNUST 2017 – 2018

19. Lead Facilitator, Health Professionals Access Programme, IDL 2015 – Date

20. Member, JUST editorial committee. 2020 - Date