

Curriculum Vitae

PERSONAL BRIEF

Name: Dr. Gordon Foli
Current Rank: Senior Lecturer
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Professional Affiliation: Ghana Institute of Geoscience (GhIG)

1. ACADEMIC DEGREES AND INSTITUTIONS ATTENDED

(a) Academic Degrees earned with dates

- Ph.D. in Geological Engineering (Mine Water Remediation) (June 2017)
- MPhil in Geology (Mining Environmental Management) (April 2004)
- BSc in Geology with Physics (June 1987)

(b) Institutions attended with dates

- KNUST, Kumasi (2013-2017)
- University of Ghana, Legon (2000-2004)
- University of Ghana, Legon (1984-1987)

2. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

(a) Academic Rank held and subjects taught

- Senior Lecturer: Geological Engineering Department, KNUST (2015-Date)

(b) Professionally Related Experience

(i) Industrial Employment and Experience

Anglogold Ashanti, Obuasi mine:

No.	Ranks and responsibilities	Dates
1	Coordinator: ISO 14001:2004 Environmental Management System	06/2006 - 12/2007
2	Environmental Superintendent: Monitoring and Assessment	12/2005 - 06/2006
3	Geology Superintendent: Geo-Environmental Projects	11/1997 - 11/2005
4	Senior Geologist: Responsible for Ore and Resource Delineation:	10/1994 - 10/1997
5	Mine Geologist: Responsible for Underground Geological Mapping	09/1990 - 09/1994

Ghana Geological Survey Department, Volta Region:

1	Assistant Geologist: Field mapping and resource delineation	11/1988 - 09/1990
2	National Service	11/1987 - 08/1990

(ii) Industrial Training Programmes (AGA Obuasi mine)

No	Competency	Dates
1	Lead Auditor Course: ISO 14001:2004 Systems Audit; SGS, Ghana	10/2007
2	Project Management Course (Level 1); AGA	05/2007
3	ISO 14001 EMS Internal Audit, Pims Management Consultants of Zimbabwe	05/2006
4	ISO 14001 EMS Planning and Implementation: Pims Management	10 th -14 th 04, 2006

	Consultants of Zimbabwe	
5	Practical Issue-based risk Assessment: SHE Solutions, SA	Feb-Aug, 2006
	Participatory	
6	Datamine/Geochemical Exploration Statistics	2 nd -13 th 09/1991
7	Structural Mapping Project	7 th -13 th 03/1993
8	Extended Datamine Application	1 st - 24 th 02/1994
9	Supervisory Training	06/1994
10	Supervisors Safety Training Course	05/1995
11	Exploration Strategy Scoping Study	1995-/1997
12	Finance for Non-Accounting Managers	03/1998
13	Counseling	10/1998
14	Computer/Information Systems	07/1999
15	Basic Computing	08-09/1999
16	Managing Change	06/2000
17	ISO 14001 EMS Awareness Training	05/ 2006

(iii) Environmental Audit Practice

- **Third Party Integrated Audits: SGS (Ghana):** ISO 14001:2004 and OSHAS 18001:2007) Auditing; Ghana Bauxite Company, Awaso, W. Region, Ghana 2008-2012
- **Second Party Environmental Audits: AGA, Obuasi mine**

1	Complete Systems (ISO 14001:2004); 2 nd Party Audits with QES Integrated Systems of South Africa	21 st - 29 th 08/2006
2	Partial Systems (ISO 14001:2004); 2 nd Party Audits with QES Integrated Systems of South Africa	12 th -15 th 09/2006
3	Partial Systems (ISO 14001:2004); 3 rd Party Document Review Audis with DLIQ of Australia	18 th -29 th Sept. 2006
4	Complete Systems (ISO 14001:2004); 3 rd Party Certification Audis with DLIQ of Australia	29 th Nov. -16 th Dec. 2006
5	Partial Systems (ISO 14001:2004); 1 nd Party Audits; Corporate Review with AGA Corporate Office, South Africa	11 th -13 th July 2007
6	Partial System (ISO 14001:2004); 3 rd Party Surveillance Audits with DLIQ of Australia	22 nd -26 th November, 2007

Peer-reviewed Journal Publications

- 1) P. Antwi-Agyei, J.N Horgah, **G. Foli, (2009)** Trace element contamination of soils around gold mines tailing dams at Obuasi, Ghana. *African Journal of Environmental Science and Technology* Vol. 13(11) pp.353-359.
- 2) **Gordon Foli**, Jonathan N. Horgah and Philip Antwi-Agyei **(2010)** Effectiveness of planning and implementation stages of the ISO 14001 standards EMS at the Obuasi gold mine, Ghana. *American J. of Social and Management Sciences*. 1.1.1.12
- 3) Leonard Kyei, **Gordon Foli** & Janet Ankoh **(2011)** Analysis of factors affecting the Technical Efficiency of cocoa farmers in the Offinso District-Ashanti region, Ghana. *American Journal of Social and Management Sciences*. AJSMS.2010.2.2.208.216
- 4) Prosper M. Nude, **Gordon Foli** & Mark Yidana **(2011)** Geochemical Assessment of Impact of mine spoils on the quality of stream sediments within the Obuasi mines environment, Ghana. *International Journal of Geosciences*, 2011, 2, 259-266 doi:10.4236/ijg.2011.23028”
- 5) **Gordon Foli**, Ohene B. Apeah & Chiri G. Amedjoe **(2011)** Pre-mining Water Quality prediction from non-weathered sulphide ores along the Ashanti metallogenic belt in Ghana

using Acid-Base accounting procedure. *American Journal of Scientific and Industrial Research* AJSIR.2011.2.5.827.833

- 6) **Gordon Foli** & Prosper M. Nude (2012) Concentration levels of some Inorganic contaminants in streams and sediments in areas of pyrometallurgical and hydrometallurgical activities at the Obuasi mine, Ghana. *Environmental Earth Sciences* 65:753-763
- 7) Prosper M. Nude, John W. Shervais, Kodjopa Attah & **Gordon Foli** (2012) Petrological and geochemical characteristics of mafic granulites associated with alkaline rocks in the Pan-African Dahomeyide suture zone, southeastern Ghana. Source: *Petrology-New Perspectives and Applications* ISBN 978-953-307-800-7
- 8) **Gordon Foli**, Prosper M. Nude and Ohene B. Apea, (2012) Geochemical Characteristics of Soils from Selected Districts in the Upper East region, Ghana: Implications for Trace Element Pollution and Enrichment. *Research J. of Environmental and Earth Sciences*, 4(2): 186-195.
- 9) Chiri G. Amedjoe, **Gordon Foli** and Prosper M. Nude (2012) Geological and Geochemical controls on the composition of natural drainages in Homase Mineral Deposit Environment. *Research Journal of Environmental and Earth Sciences* 4(3): 255-263.
- 10) Enoch Boateng, G.N.N. Dowuona, P.M. Nude, **G. Foli**, P. Gyekye, and M. Hashim, (2012) Geochemical Assessment of the Impact of Mine Tailings Reclamation on the Quality of Soils at AngloGold Concession, Obuasi, Ghana. *Research Journal of Environmental and Earth Sciences* 4(4): 466-474.
- 11) Prosper Mackenzie Nude, John Mahfouz Asigri, Sandow Mark Yidana, Emmanuel Arhin, **Gordon Foli**, Jacob Mawuko Kutu (2012) Identifying Pathfinder Elements for Gold in Multi-Element Soil Geochemical Data from the Wa-Lawra Belt, Northwest Ghana: A Multivariate Statistical Approach. *International Journal of Geosciences*, 3, 62-70
- 12) **G. Foli**, P.M. Nude, C.G. Amedjoe and L.Kyei (2012) Arsenic leaching in mill tailings in the Obuasi gold mine, Ghana: management of contamination in the related water environment. *West African Journal of Applied Ecology* Vol. 20(1), 2012
- 13) **Gordon Foli**, Simon K.Y. Gawu, Johnson Manu and Prosper M. Nude (2013) Arsenic sorption characteristics in decommissioned tailings dam environment at the Obuasi mine, Ghana; *Research Journal of Environmental and Earth Sciences* 5(10):599-610.
- 14) Prosper M. Nude, Emmanuel Arhin and **Gordon Foli** (2013) Use of Multi-Media Sampling as Integrated Approach to Surficial Geochemical Sampling for Gold in Regional Reconnaissance Surveys in Parts of the Ashanti Belt, Southwest Ghana; *Research Journal of Environmental and Earth Sciences* 5(1): 18-25.
- 15) Prosper M. Nude, Emmanuel Arhin, Sandow M. Yidana, **Gordon Foli** and Gabriel N. N. Dowuona (2014) Geochemical Dispersion of Elements and Their Correlation with Gold in the Regolith at the Tetteh Prospect of the Chirano Gold Mines in the Sefwi Belt of the Birimian, Southwestern Ghana: *Journal of Environment and Earth Science*; Vol.4, No.9
- 16) **Gordon Foli**, Simon K.Y. Gawu, Prosper M. Nude (2015) Arsenic Contamination and Secondary Mineral Evaluation in Mine Drainage Using Integrated Acid-Base Accounting and Toxicity Characterisation Leaching Procedure: The Case of Obuasi Mine, Ghana. *Env. Earth Sci.* 73 (12).
- 17) Nude P.M., **Foli G.**, Gawu S.K.Y., Gidigas S.R., Sakyi P. A., Kwayisi D. (2016) Arsenic Intensity Risk Assessment at AngloGold Obuasi Goldmine, Ghana, West Africa: Using Sorption and Geotechnical Factors. *West African Journal of Applied Ecology*, 24(2)1-17
- 18) **Gordon Foli** and Simon K.Y. Gawu (2017) Modified Acid-base Accounting Model Validation and pH Buffer Trend Characterisation in Mine Drainage at the AngloGold-Ashanti Obuasi mine in Ghana, West Africa: *Environmental Earth Sciences*. 76 (19), 663

- 19) Amadu C.C., **Foli G.** and Abanyie S. (2017) “Rock Fracture Characterization for Solid Waste Disposal Site Selection: A Case from Sites in the Accra-Tema Area, SE Ghana.” *World Journal of Environmental Engineering; Science and Education Publishing: 5(1)* 7-16.
- 20) **Gordon Foli** and Simon K.Y. Gawu (2018) Using an integrated method for the determination of environmental TCLP arsenic for sulphide-rich mine tailing remediation in Ghana, West Africa: *Environmental Earth Sciences. 77:1-11.*
- 21) Buadee, N.A., Gawu, S.K.Y & **Foli, G.** (2018) Assessing the Occupational Risks associated with Artisanal and Small-Scale mining- A Case study in Asankrangwa and Kenyasi Areas in Ghana. *West African Journal of Applied Ecology. Vol. 26(1).* 22-32.
- 22) **Gordon Foli**, George Obeng, Michael Adjalo, Donald Amrago & Ebenezer Mensah (2018) Apportionment of Funds to Mining-Impacted Communities within Forest Reserve Environments in Ghana: *Canadian Center of Science and Education: Environment and Natural Resources Research; Vol. 8, No. 3.*
- 23) **Gordon Foli**, Simon K. Y. Gawu, Blestmond A. Brako & Prosper M. Nude (2019) Geochemical Assessment of Trace Metals in Peri-Urban Drainage and Bioaccumulation in Selected Food Crops in the Kumasi Metropolis, Ghana: *Canadian Center of Science and Education: Environment and Natural Resources Research; Vol. 9, No. 1.*
- 24) Eric E. Bayari, **Gordon Foli** and Simon K.Y. Gawu (2019) Geochemical and pathfinder elements assessment in some mineralised regolith profiles in Bole-Nangodi gold belt in north-eastern Ghana. *Environmental Earth Sciences. Volume: 78. Issue: 9*
- 25) Majeed F., Dadzie, I., **Foli, G.**, and Takyi-Kyeremeh, K. (2019) “Structurally Controlled Prospectivity Map in the Sefwi Belt of Ghana”, *Ghana Journal of Technology, Vol. 4, No. 1, pp. 49-56.*
- 26) Nkrumah R Agyemang K., **Foli G.**, Gawu S.K.Y, Nude P.M (2019) Evaluation of Placer Deposit within Ghana a Case Study of the Kwabeng Placer Gold Deposits North Western Flank of Atewa Range, Eastern Region, Ghana: *International Journal of Engineering Research & Technology (IJERT) Vol. 8 Issue 11*
- 27) Blestmond A. Brako, **Gordon Foli**, Etornam B. Fiadonu, Chiri Amedjoe, Derrick Aikins, Simon K.Y. Gawu (2020) Provenance and Tectonic Setting of Some Paleoproterozoic Sedimentary Rocks in the Chagupana and Tarkwa areas of Ghana: Petrographic and Structural Constraints. *Earth Sciences Malaysia 4(1)* 01-07
- 28) Blestmond A. Brako, **Gordon Foli**, Chiri Amedjoe and Simon K.Y. Gawu (2020) Petrographic study of some Paleoproterozoic sedimentary rocks in the Chagupana and Tarkwa areas of Ghana. *International Journal of Geography and Geology: Conscientia Beam. Vol. 9, No. 1, pp. 38-54 DOI: 10.18488/journal.10.2020.91.38.54*

Peer-reviewed Conference Proceedings

- 29) Fred Owusu Nimoh, Mohammed Shammudeen, **Gordon Foli** (2020). The use of electrical resistivity method in assessing the quality of compaction of a clay liner: A case study of the Dompouse landfill in Ghana. *International Society of Soil Mechanics and Geotechnical Engineering*

3. CONFERENCES/SEMINARS AND WORKSHOPS AT WHICH PAPERS WERE READ

- 1) Comparative Study of some Paleoproterozoic rocks occurring in the Upper West region and similar units in the Tarkwaian group: Ghana Institution of Geoscientists. 2019 Annual National Conference. UMAT, Tarkwa (13-16th Aug., 2019)

- 2) Training Programme for key Mining Sector Institutions on Mine Closure and post Closure Planning: Canadian International Resources and Development Institute. City Escape Hotel, Accra, Ghana. (March 20-24, 2017)
- 3) Forum for Emergency Procedures and Response and Implementation: Geological Survey Department, Eastern Region (28-29th, Nov., 2014)
- 4) CoE Initiation Lecture Series on the topic; Pre-mining Water Quality prediction from non-weathered sulphide ores using Acid-Base accounting procedure (29/03/2012)
- 5) Prediction of Arsenic Contamination and Management in Mine Drainage Newmont forum on exploration: Eusbert Hotel, Sunyani (19-21/08/2013)