

## Curriculum Vitae



**EMMANUEL OFORI**

Name	
Tel.	00233-243111216
E-mail	<a href="mailto:ofori.emmanuel65@yahoo.com">ofori.emmanuel65@yahoo.com</a>
Date of Birth	13 <sup>th</sup> July, 1960
Nationality	Ghanaian
Marital Status	Married
Family	Three(3) children 2 girls and a boy
Professional Training/Higher Education	Agricultural Engineer/PhD
Foreign Language Skills	English (Competent) Japanese (Rudimentary)
Professional Experience (1)	Lecturing, Research, Consulting and Training (October 2002-date)
Position and Employer	Senior Lecturer, Department Agricultural Engineering, Kwame Nkrumah University of Science and Technology, Kumasi
Duration of Employment with the University (KNUST)	Ten (11) Years
Scope of Duties	Lecturing and supervising undergraduate and graduate work; Carrying out independent research work; Consulting on national issues.

**Undergraduate Teaching responsibilities:** agrometeorology and climatology, irrigation, drainage and flood control

**Postgraduate teaching responsibilities:** Engineering Hydraulics, Agrohydrology, Drainage Design and Soil Tillage

**Other Postgraduate teaching responsibilities:** Ghana Technology University College

**Other University appointment:** Hall Master Independence Hall, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Area of Specialization      Soil and Water Engineering, Agrometeorology and Climatology, Soil Physical Properties in Tillage Management, Climate Change and Agriculture, Low Cost PVC Drip Irrigation Systems Design, Drainage and Flood Control, Analysis and Behaviour of Earthfill Dams

Professional Experience (2)

Lecturing and Research, Programme Development (September 1998-September 2002)  
Head, Agricultural Engineering (1998, 2000-2002) Department, Head, Building Technology Departments (1999-2000)

Position and Employer      Head of Department, Tamale Polytechnic

Duration of Employment      Four (4) Years

Scope of Duties      Taught courses in soil and water engineering, agrometeorology and climatology, field survey work on small water reservoirs (dugouts), establishment of Building Technology Programme, Soil and water Engineering

**Other Professional Experience**

- a. **Team member:** Netherlands Climate Assistance Programme (NCAP) and a contributor to the Phase One Health Assessment Report, Netherlands Climate Assistance Programme (NCAP) 2005
  
- b. **Team Member:** National Greenhouse Inventory programme under the leadership of the Ghana Environmental Protection Agency.

- c. **Participant:** Training of Trainers workshop on integrated water resources management organised by the West African Capacity Building Network for IWRM (WA-Net) held at Kaduna, Nigeria.
- d. October 25 – December 5<sup>th</sup> 2011; **Participating Scientists;** KNUST-JIRCAS Joint Research Project on Material and Farm Surveys for developing low-cost irrigation facilities
- e. 2011-2016 : **Participating Scientist;** Joint Research collaboration between Kwame Nkrumah University of Science and Technology (KNUST) and Japan International Research Centre for Agricultural Sciences (JIRCAS) on the Development of Low-Cost Irrigation facilities applicable to Africa (2011-2016)
- f. April – July 2013; **Participating Scientist;** Building Stronger University Projects (BSU) on modeling the response of irrigation water on maize to a low cost pvc drip irrigation system

#### **Selected Publications**

1. Kotei, R, Kyei-Baffour N, **Ofori, E** and Agyare, W.A (2013) Rainfall Trend, Changes and their Socio-Economic and Ecological Impacts on the *Sumampa* Catchment for the 1980-2019 period. International Journal of Engineering Research and Technology (IJERT) Vol. 2 Issue 6, ISSN:2278-0181
2. Francis Kemausuor, Joseph Oppong Akowuah, **Emmanuel Ofori** (2013) Assessment of Feedstock Options for Biofuels Production in Ghana Journal of Sustainable Bioenergy Systems, 3, pp 119-128 Published Online June 2013 (<http://www.scirp.org/journal/jsbs>)
3. **Ofori, E., Owusu-Ansah, E., Kyei-Baffour, N., Dontwi, I. K. and Atta-Darkwa, T.** (2013). Parameter estimation in rainfall-watertable relationship using Kalman Filter. Global Journal of Engineering, Design and Technology (G.J.E.D.T) 2(1): 86 – 95. ISSN 2319-7293. [www.gifre.org](http://www.gifre.org).
4. Kyei-Baffour, N., **E. Ofori, E. Mensah, W. A. Agyare. and T. Atta-Darkwa.** (2013). Modelling groundwater flow of the Besease Inland Valley Bottom in Ghana. Global Journal of Biology, Agriculture and Health Sciences. 2(1): 52-60. ISSN 2319-5584.[www.gifre.org](http://www.gifre.org).
5. **E. Ofori,** E.T. Atakora, N. Kyei-Baffour and B.O. Antwi (2013) Relationship between landscape positions and selected soil properties at a *Sawah* Site in Ghana. African Journal of Agricultural Research. Vol. 8(27) pp 3646 – 3652. ISSN 1991-637X. [www.academicjournal.org/AJAR](http://www.academicjournal.org/AJAR).
6. **E. Ofori,** J. Ayer, E. Mensah, N. Kyei-Baffour and Sosa I. (2013) Assessing the impact of long-term *Hevea Brasiliensis* (Para Rubber) Plantation on Soil Dry Bulk

Density and Porosity in a semi-deciduous forest Environment in Ghana. Int. J. Eng. Res & Sci. & Tech <http://www.ijerst.com/currentissue.php>

7. J. Ampofo, **E. Ofori** and A. A. Ibrahim (2013) Mechanical Properties of Plantain Pseudostem and Implications for Susceptibility to Lodging, *Journal of Agriculture and Environment for International Development* 107 (1): pp 3-11
8. Morgan Bazilian, Ijeoma Onyeji, Peri-Khan Aqrabi, Benjamin K Sovacool, **E. Ofori**, Daniel M Kammen and Thijs Van de Graaf (2013) Oil, Energy Poverty and Resource Dependence in West Africa. *Journal of Energy & Natural Resources Law*, Vol 31 No. 1 2013
9. Massoud, J., Agyare, W.A., Forkuo, G., Namar. R. and **Ofori, E.** (2013) Modeling Inland Valley Suitability for Rice Cultivation. *ARNP Journal of Engineering and Applied Sciences*, Vol. 8, No. 1, pp 9 – 19
10. Oteng-Darko, Kyei-Baffour, N and **Ofori, E** (2012) Simulating rice yields under climate change scenarios using the CERES-RICE model. *African Crop Science Journal*, Vol 20, Issue Supplement s2, pp 401-408
11. Issaka Z., E. Mensah, W. A. Agyare and **E. Ofori** (2012). Appropriate Rainwater Harvesting Storage Capacity for Households: A Case Study of Central Gonja District. *World Rural Observations* 4(4) 57-63
12. E. T. Atakora, N. Kyei-Baffour, **E. Ofori** and B. O. Antwi (2013) Simulation of sediment transport to *Sawah* rice fields by applying the WEPP model to a watershed in Ghana, *Journal of Soil Science and Environmental Management*. Vol. 4(3) pp 46-53 DOI10.5897/JSSEM12.002, ISSN2141-2391  
<http://www.academicjournals.org/JSSEM>
13. Kees Stigter, Yunita T. Winarto, **Emmanuel Ofori**, Gugulethu Zuma-Netshiukhwi, Durton Nanja and Sue Walker (2013) Extension Agrometeorology as the Ultimate Operational Answer to Stakeholder Realities: Response Farming and the Consequences of Climate Change, *Atmosphere* 37023 Special Issue; Agrometeorology: From Scientific Analysis to Operational Application, 4, 1 – x manuscripts: doi:10-3390/atmos40x000x, [www.mdpi.com/journal/atmosphere](http://www.mdpi.com/journal/atmosphere), ISSN 2073-4433
14. N. Kyei Baffour, E.T. Atakora, **E. Ofori** and B.O. Antwi (2012) Estimation of Soil Erodibility and Rainfall Erosivity for the Biemso Basin, Ghana, *Journal of Environmental Hydrology* 1 Volume 20
15. **E. Ofori**, N. Kyei-Baffour, E. Mensah and W.A. Agyare (2010) Yield gap analysis in rice production from stakeholders' perspective at Annum Valley Bottom Irrigation

project at Nobewam in Ghana. APRN Journal of Agricultural and Biological Science. Vol. 5, No. 6

16. Stigter. C.J, **Ofori, E**, Kyei-Baffour N. and Walker S (2011). Microclimate-management and manipulation aspects of applied agroforestry. The Overstory agroforestry e-journal. The overstory # 240: pp 2-11
17. Oteng-Darko, Kyei-Baffour, N and **Ofori, E** (2013) Yield of rice as affected by transplanting dates and plant spacing under climate change simulations. Wudpecker Journal of Agricultural Research Vol. 2 (12), pp. 055-063 ISSN 2315-7259
18. Abagale, F.K. Kyei-Baffour, N. and **Ofori, E.** (2009) Degradation of the Nasia River Basin in Northern Ghana. Ghana Journal of Development Studies 6 (1) pp 154 – 174
19. Ebenezer Mensah, Samuel Nii Odai, **Emmanuel Ofori** and Nicholas Kyei-Baffour (2008) Influence of Transpiration on Cadmium (Cd) and Lead (Pb) Uptake by Cabbage, Carrots and Lettuce from Irrigation Water in Ghana. Asian Journal of Agricultural Research 2 92): 56-60
20. E. Mensah, M. Bonsu, S. N. Odai, R. Shoji, N. Kyei-Baffour and **E. Ofori** (2009) Influence of Cadmium and Lead Concentrations of Irrigation Water on Dry Matter Yield of Vegetables. Journal of Environmental Science and Technology 2 (1): 68-72

#### **Contribution to Book Chapters**

1. Walker S, Stigter C.J., **Ofori, E** and Kyei-Baffour N. (2010) Intercropping and its implications for soil management. Chapter in Soil Management: Building a Stable Base for Agriculture. Ed. J. L. Hafield and T.J. Sauer. American Society of Agronomy Series
2. Contribution to Applied Agrometeorology, Editor(s) Kees Stigter, Agromet Vision, 2010 Edition, XII, 1012 pp ISBN:978-3-540-74697-3 Springer
  - i. **E. Ofori** and N. Kyei-baffour  
Selection processes of (Changes in) Land use and cropping patterns: Multiple cropping pp 423
  - ii. **E. Ofori**, N. Kyei-Baffour and Kees Stigter  
The Selection of Actual Preparedness Strategies for Dealing with Climate as Adopted in Multiple Cropping pp 429
  - iii. S. Walker, **E. Ofori**, N. Kyei-Baffour and Kees Stigter  
The Sustainable Development and Use of Agro-Ecosystems: Multiple Cropping pp 461
  - iv. S. Walker, **E. Ofori**, N. Kyei-Baffour and Kees Stigter  
Tactical Decision Making Based on Weather Information pp 493
  - v. **E. Ofori**, N. Kyei-Baffour and Kees Stigter  
Designing and Selecting Weather Related Tactical Applications for Agricultural Management and Increasing Their Efficiencies: Multiple Cropping pp. 49

**Membership of professional societies**

- 1) Ghana Society of Agricultural Engineering(GSAE)
- 2) West Africa Society of Agricultural Engineering (WASAE)
- 3) International Society for Agrometeorology (INSAM)