

Curriculum Vitae

Hassana Ibrahim Mustapha

Department of Environmental Resources
Pollution Prevention and Control Core
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Personal Details:

Date of Birth: 12th November, 1974

Place of Birth: Lokoja, Kogi State.
Nigeria

Nationality: Nigerian

Sex: Female

Marital Status: Married

Number of Children: Three; (7, 5 years old and 3 months old)

Religion: Islam

Language Proficiency: English, Egbura, Hausa

Current Position and Address:

PhD Research Fellow
Department of Environmental Sciences and Technology
Pollution Prevention and Control Core
UNESCO-IHE, Institute for Water Education
P. O. Box 3015
2601 DA Delft, The Netherlands

Employment/Working Experience:

Post held	Employer	Duration
PhD Research Fellow	UNESCO-IHE, Institute for Water Education, Delft, The Netherlands.	2011 - 2014
Lecturer I	Federal University of Technology, Minna, Nigeria.	2008 - to date
Lecturer II	Federal University of Technology, Minna, Nigeria.	2005 - 2008
Education Officer III	Islamic Training Center, Madalla, Nigeria.	2001 - 2002
Federal Department of Agriculture, Federal Ministry of Agriculture and Rural Development	National Youth Service Corp (NYSC), Nigeria	2000 - 2001

Trainee Engineer	Steyr Nigeria Limited, Bauchi, Nigeria	1998
Trainee Engineer	Ministry of Agriculture and Rural Development, Lokoja, Nigeria	1997

Institutions attended and Educational Qualifications with dates:

(i) Institution of Higher Learning:

Name of Institution	Qualification Obtained	Area of Specialization	Year Obtained
UNESCO-IHE, Institute for Water Education, Delft, The Netherlands	PhD in Environmental Engineering	Environmental Engineering	January 2011-on going
Federal University of Technology, Minna, Nigeria	Masters in Agricultural Engineering	Soil and Water Conservation Engineering	2005
Federal University of Technology, Minna, Nigeria	Bachelor of Engineering	Agricultural Engineering	2000

(ii) Secondary Education:

Name of School	Certificate Obtained	Year Obtained
Alphabet Computer Training School, Wuse, Zone II, Abuja, Nigeria	Certificate in Computer programming	2001
Steyr Nigeria Training School, Bauchi, Nigeria	Certificate in Technical Service Maintenance and Repair	1998
Federal Government College, Kwali – Abuja, Nigeria	Senior Secondary School Certificate	1991

Academic Responsibilities at Federal University of Technology, Minna:

(i) Lecturing of Agricultural Engineering Courses:

- Soil and Water Conservation (AGE 512)
- Laboratory Practical (AGE 320)
- History and Philosophy of Science (EHG 111)
- Applied Hydraulics for Agricultural Engineers (ABE 328)
- Irrigation (DAGE 576)
- Laboratory Practical (DAGE 512)
- Ground Water Hydrology (DAGE 565)
- Surface Water Hydrology (ABE 620)

(ii) Administrative Responsibilities:

- Departmental Examination Officer, 2008/2009 and 2009/2010 Academic Session

- Member, Departmental Strategic Planning Committee, 2008
- Member, Departmental Library Committee, 2006 to 2010
- Departmental Welfare officer; 2006 to 2010
- Departmental assistance welfare officer; 2005/2006 academic session
- Level adviser: 100 Level 2009/2010 Academic Session
400 Level, 2007/2008 Academic Session
100 Level, 2006/2007 Academic Session
400 Level, 2005/2006 Academic Session

Professional Experience:

Position held	Employer	Duties	Duration
Lecturer I	Department of Agricultural and Bio-resources Engineering, Federal University of Technology, Minna	Teaching, research and administration	2008 – to date
Lecturer II		Teaching, research and administration	2005– 2008
Lecturer I		Lecturing of Masters' Students	2009 - 2010
Lecturer II / Lecturer I		Graduate student supervision	2005 – 2010
Lecturer II		Co-supervisor for postgraduate student	2005 - 2008
Lecturer II / Lecturer I		Lecturing of postgraduate diploma students	2005 – 2010
Lecturer II / Lecturer I		Research work in Soil and Water Conservation Engineering	2005– to date

Courses taught Department of Agricultural and Bio-resources Engineering, Federal University of Technology, Minna:

(i) Undergraduate students

Academic Session	Course Code	Course Title	Credit
2005/2006	AGE 512	Soil & Water Conservation	3
	AGE 514	Project supervision	6
2006/2007	AGE512	Soil & Water Conservation	3
	AGE 514	Project supervision	6
	AGE 320	Labortary Practical	2
	EHG 111	History and Philosophy of Science	2
2007/2008	ABE512	Soil & Water Conservation	3
	ABE 514	Project supervision	6
	ABE 328	Applied Hydraulics for Agricultural and Bioresources Engineering	2

	EHG 121	History and Philosophy of Science	2
2008/2009	ABE 512	Soil & Water Conservation	3
	AGE 514	Project supervision	6
	EHG 121	History and Philosophy of Science	2
2009/2010	ABE 512	Soil & Water Conservation	3
	AGE 514	Project supervision	6
	EHG 121	History and Philosophy of Science	2

(ii) Postgraduate students

Academic Session	Course Code	Course Title	Credit
2005/2006	DAGE 576	Irrigation	2
2006/2007	DAGE 512	Laboratory Practical	2
2006/2007	DAGE 565	Ground Water Hydrology	2
2007/2008	DAGE 576	Irrigation	2
2008/2009	DAGE 576	Irrigation	2
2009/2010	DAGE 576	Irrigation	2
2009/2010	ABE 620	Surface Water Hydrology	2

Publications:

(i) Authorship in Projects/Thesis:

- Performance Evaluation and Modification of a Soymilk Filter Press (2000); A final year project submitted to the Department of Agricultural Engineering, Federal University of Technology, Minna. Nigeria.
- Modeling Surface Runoff and Sediment Yield in Numu Farm Center, Bosso, Niger State, Nigeria (2004); A Master's Thesis submitted to the Department of Agricultural Engineering, Federal University of Technology, Minna. Nigeria.

(ii) Authorship in Journals:

- M.G. Yisa, **H.I. Mustapha** and U.F. Israel (2003). Design, Construction and Testing of a Hydraulic Dynamometer. African Journal of Science and Technology, Port Harcourt, Nigeria. Vol.1(1&2):102-107
- N.A. Egharevba and **H. Ibrahim** (2006). Prediction of Sediment Yield in Runoff from Agricultural Land in the Southern Guinea Savannah Zone of Nigeria. West African Journal of Applied Ecology, Ghana. Vol. 10.
- **H. I. Mustapha** (2008). Development of Sediment Load Model for Estimating Soil Loss in Bosso, Niger State, Nigeria. Journal of Science, Education and Technology, SSSE, Minna. Nigeria. Vol. 1 (2): 225-230
- **Mustapha, H. I** and Musa, J.J (2008). Practicability of Tube Wells for Dry Season Farming In the Fadama, Guinea Savannah Area, Nigeria. African Journal of Agricultural Research and Development, Enugu, Nigeria. Vol.1 (1): 88-91
- O. Chukwu, **H. I. Mustapha** and H. B Abdulgafar (2008). The effect of Minna Abattoir Waste on Surface Water Quality1. Medwell Environmental Research Journal, 2 (6):335-338.

- O. Chukwu, **H. I. Mustapha** and H. B Abdulgafar (2008). The effect of Minna Abattoir Waste on Surface Water Quality II. *Medwell Environmental Research Journal*, 2 (6): 339 – 342.
- Idah, P, **H. I. Mustapha**, Musa, J. J, and J. Dike (2009). Determination of Erodibility Indices of Soil in Owerri West Local Government Area of Imo State, Nigeria. *AU Journal of Technology, Thailand*. Vol. 12 (4).
- Idah, P, Musa, J. J, **Mustapha, H. I**, and Argungun, M. M (2009). An Investigation into the causes of water logging at Zauro Polder Pilot Project Scheme, Birnin Kebbi, Nigeria. *AU Journal of Technology, Thailand*. Vol. 13 (2).

(iii) Authorship in Proceedings/Book of Readings:

- **Ibrahim, H** and N. A. Egharevba (2005). Modeling of Surface Runoff and Sediment in Numu Farm Center, Bosso, Niger State, Nigeria. Paper presented at the 6th Annual Engineering Conference, School of Engineering and Engineering Technology, Federal University of Technology, Minna. , June 15th – 18th, 2006.
- **H. I. Mustapha** and N. A. Egharevba (2006). Surface Runoff and Sediment relationship in Numu Farm Center, Bosso, Niger State, Nigeria. Paper presented at the 7th Annual Engineering Conference School of Engineering and Engineering Technology, Federal University of Technology, Minna, June 28th – 30th, 2006.
- Adgidzi, D, **H. I. Mustapha** and Akudo, C. O (2006). Development and Testing of a Soybean Digesters. *Book of Proceedings of the 7th International Conference of Nigeria Institution of Agricultural Engineers, Zaria, Nigeria*. Vol. 28. Pp. 337.
- **H. I. Mustapha** (2010). Water Quality Assessment of River Chanchaga, Minna, Nigeria for Irrigation Purposes. *Book of Proceedings of the 10th International Conference of Nigeria Institution of Agricultural Engineers, Enugu, Nigeria*. Vol. 30, Pp. 304
- **Hassana Ibrahim Mustapha**, D. P. L. Rousseau, J. J. van Bruggen and P. N. L. Lens (2011). Treatment performance of horizontal subsurface flow constructed wetlands treating inorganic pollutants in simulated refinery effluent. *Book of Proceedings of the 2nd Biennial Engineering Conference of School of Engineering and Engineering Technology, Federal University of Technology, Minna, held in November 16th – 18th, 2011 at Federal University of Technology, Minna, Nigeria*.

(iv)Details of professional course/ training/conference /workshop Attendance:

- Participated in the 6th Annual Engineering Conference of the School of Engineering and Engineering Technology from June 15 to June 18, 2005 at Federal University of Technology, Minna, Niger State, Nigeria.
- Participated in the 7th Annual Engineering Conference of the School of Engineering and Engineering Technology from June 28 to June 30, 2006 at Federal University of Technology, Minna, Niger State, Nigeria.

- Workshop on training the Lecturers in School of Engineering and Engineering Technology (SEET), Federal University of Technology, Minna on using MATHCAD and POLYMATH, Feb, 16th - 19th, 2009.
- Participated at the 10th International Conference and the 31st Annual General Meeting of the Nigeria Institution of Agricultural Engineers, held on the 20th - 23rd October, 2010 at the Olive Gate Hotel, Enugu, Nigeria.
- Participated in and completed a four - week course on "Wetlands for water quality" from February 28 to March 24, 2011 at UNESCO-IHE Delft, The Netherlands.
- Participated in and completed a two - week course on "Nanotechnology for water and wastewater treatment" from March 28 to April 8th, 2011 at Crommelinplein, UNESCO-IHE Delft, The Netherlands.
- Attended one - day mini - symposium on "Development vs. Climate? The role of Developing Countries" by Prof. Atul Kumar and co-featuring Prof. Korneli Blok organized by the Research School SENSE and University of Utrecht on the March 23, 2011 at the University of Utrecht, Utrecht, The Netherlands.
- Attended the Inaugural Address by Prof. Atul Kumar on " Growth, Sustainable Development and Climate Change: Friends or Foes?" Organized by the Research School SENSE AND University of Utrecht on March 23, 2011 at the University of Utrecht, Utrecht, The Netherlands.
- Attended mini - symposium on " How to Write a World-Class Paper " Organized by Wageningen University Library in collaboration with Elsevier Science on April 19, 2011 at Mathematics Building, Building 308, Wageningen University, Wageningen, The Netherlands.
- Attended symposium on " Fate of Contaminants in the Environment" Organized by Pollution, Prevention and Control Core, Department of Environmental Resources, UNESCO-IHE Delft, on May 13, 2011 at UNESCO-IHE Delft, The Netherlands.

(v) Authorship in Technical Report:

- **Mustapha, H. I (2008).** Report on Post Graduate Experience Presented to the Council for the Regulation of Engineering in Nigeria (COREN) for Election of Corporate Membership.
- **Mustapha, H. I (2006).** Report on Post Graduate Experience Presented to the Nigerian Society of Engineers for Election as a Corporate Member.
- **Mustapha, H. I (2006).** Report on Design Project and Drawings (calculations and bills of material) submitted to the Nigerian Society of Engineers in partial fulfillment of the requirements for enlistment as a Corporate Member.

Graduate Student Research Supervised:

Student Research (2008/2009 Academic Session) :

- IBRAHIM, Aminu (2006). Evaluation of Irrigation Water Quality and Assessment of Salts in Irrigated lands of Chanchaga, Gusoro, and Soje Irrigation Schemes, Niger State, Nigeria.
- USMAN, B. A (2007). Water Quality Analysis of Boreholes and Open well water at Sauka kahuta, Minna West Local Government Area, Niger State. Nigeria.
- MUHAMMAD, Aliyu. Baba (2007). Design of a Rainwater Harvesting System for Domestic purposes for Katagun Local Government Area of Bauchi Sate.Nigeria.
- SALIFU, Gabriel .O (2008). Field Investigation of Sediment Yield from Interrill Erosion Using Water Erosion Prediction Programme (WEPP).
- IDRIS, Tanko Suleiman (2008). Water Quality Assessment of Tube wells Water at Edoghizi, Niger State.
- SIYAKA, Abdulrahman (2008). Assessment of Salts in the Irrigated Soils of Edoghizi, Niger State.
- BELLO, Haruna (2008). Effect of Laundry Waste Water on Soil Hydraulic Properties.
- SHEIDU,Ojo (2008). Effect of Car Wash Waste Water on Soil Hydraulic Properties.
- SAMARI, M. Zakari, SAMSON, I. A, SANI, M. A, and SULEIMAN, A (2008). Design and Construction of a Rainfall Simulator.

Student Research (2008/2009 Academic Session) :

- SALAWU, Mutiu (2009) .Groundwater analysis. Case study: Borehole, Dining Hall, Bosso campus, Federal University of Technology, Minna. Nigeria.
- OLORUNYOMI, Ayorinde (2009). Evaluation of Non – biodegradable Waste for Lokoja Municipal, Kogi State, Nigeria.
- ODION, Finian.E.(2009). Effect of Hydraulic Characteristics of River Sand and Erosion Sand on River Chanchaga, Chanchaga Local Government Area, Niger State, Nigeria.
- OLADELE, Waliu. Kolade. (2009). The Impact Assessment of Wastewater Irrigation on Crop growth (Spinach).
- OJUKWU, Henry. (2009). The Effect of Domestic Wastewater on the Nutritional Value of Foodcrops (spinach).
- OKEKE, Sunday. (2009). The Effect of Oil Pollution on Agricultural Land and Possible Remediation Techniques
- ODUPE, Ololade. (2009). Performance Evaluation of Carpet Grass and Broadleaf as Soil Loss Medium.
- ODINACHI, Kehinde. (2009). Effects of Wastewater reuse on the Hydraulic Properties of the Soil
- OKOLI, OBI RAPHAEL. (2009). Effect of Distribution System Materials on Water Quality
- OGUNAIKE, PHILIPS OLUWALOPE (2009). Development of A Computer Program that Calculates Net Irrigation Efficiencies

Student Research (2009/2010 Academic Session) :

- SALAU, Mohammed. (2010). Design and Development of Domestic Wastewater Treatment Plant for Irrigation purpose
- ULUOCHA, Chizoba Augustine. (2010). Effect of Heavy Metals in Wastewater on Soil Properties
- YAKUBU, Joel. (2010). Phytoextraction of Heavy Metals in Industrial Waste Water Using Bermuda Grass (*Cynodon dactylon*)
- UGBODU, Stanley. (2010). Phytoremediation of Domestic Wastewater using *Hydrocotyle verticillata*
- SOLOMON, Ehichoya Charles. (2010). Phytoremediation of Some Heavy Metals from Polluted Soils Using Bermuda Grass (*Cynodon dactylon*)

Award/Honor:

- The Netherlands Fellowship Programmes (NFP) issued by NUFFIC (Netherlands organization for international cooperation in higher education), 2011-2014
- Nigeria Institute of Agricultural Engineers (NIAE)'s B.Sc/HND student project award. 2nd place Position. Award was presented at the NIAE International conference, September, 2000 at Ibadan, Nigeria.

Community Services:

- Member, entertainment committee, 7th Annual Engineering Conference SEET, FUT, Minna, June, 2006
- Rapporteur, 7th Annual Engineering Conference SEET, FUT, Minna, June, 2006
- Secretary, Association of Professional Women Engineers in Nigeria (APWEN), June 2005 to October 2008
- Secretary, 1st APWEN Prize – Giving day Committee, June 2007
- Assistant Secretary, APWEN, November, 2008 to 2010
- Member; January 2006 Dinner Committee, Nigeria society of Engineers (Minna branch)
- Secretary; June 2007 Dinner Committee, Nigeria society of Engineers (Minna branch)
- Secretary; June 2008 Dinner Committee, Nigeria society of Engineers (Minna branch)
- Guest speaker, 1st Annual Seminar of Muslim Agricultural Engineering Students, March 2008
- Member, APWEN 2nd Prize Giving Day Examination Committee, June, 2008

Membership of Professional Bodies:

- Registered Engineer, Council for the Regulation of Engineering in Nigeria, (COREN) (R15856)
- Member, Nigerian Institution of Agricultural Engineers, NIAE (M1071)
- Member, Association of Professional Women Engineers in Nigeria, APWEN
- Member, International Association of Hydrological Sciences, IAHS (M8904)
- Member, Nigerian Society of Engineers, NSE (M10837)
- Member, American Society of Agricultural and Biological Engineers (103107)

Extra curriculum activities

- Writing
- Home management
- Photography

Referees:

- **PROF. P. N. L. LENS**, Department of Environmental Sciences and Technology, Pollution Prevention and Control Core, UNESCO-IHE, Institute for Water Education, Delft, The Netherlands.
- **HANS VAN BRUGGEN**, Department of Environmental Sciences and Technology, Pollution Prevention and Control Core, UNESCO-IHE, Institute for Water Education, Delft, The Netherlands.
- **D. P. L. ROUSSEAU**, Environmental Science Program, University College, West Flanders, Belgium.
- **PROF. N. A. EGHAREVBA**, Department of Agricultural and Bio-resources Engineering, Federal University of Technology, Minna, Nigeria.