

CURRICULUM VITÆ

NNAJI, CHIDOZIE CHARLES

1.0 BIODATA

Contact Address: Dept of Civil Engineering, University of Nigeria, Nsukka.

Permanent Home Address: No 82B Amechi Road, Awkunanaw, Enugu, Enugu State.

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Mobile Phone: +234-080-389-488-08, +234-081-511-892-43

Sex: Male.

Date of Birth: October 4th 1978

Marital Status: Married.

Next of Kin: Mrs. Favour Nnenna Nnaji

Children: Chigozirim Hephzibah (Female: 5+ years), Chimezirim Treasure (Male: 3+ years) and Chimamanda Rejoice (Female: 1 year, 11 months)

2.0 EDUCATION

University of Nigeria Primary School, Nsukka.	1984 – 1988
Army Children School I, Awkunanaw, Enugu.	1988 – 1990
Union Secondary School Awkunanaw, Enugu, Enugu State (WASSC).	1991 – 1997
University of Nigeria, Nsukka. (B. Eng. – Second Class Honours, Upper Division).	2000 – 2005
University of Nigeria, Nsukka (M. Eng.).	2007
University of Nigeria, Nsukka (PhD.).	2011

3.0 WORK EXPERIENCE

3.1 Previous Experiences

Student's Industrial Works Experience Scheme (SIWES) 2004

Mathematics Teacher (NYSC) – Govt. Secondary School Maigatari, Jigawa State (2006)

3.2 Current Employment

Lecturer II – Dept of Civil Engineering, University of Nigeria, Nsukka (2007 – 2011)

Lecturer I – Dept of Civil Engineering, University of Nigeria, Nsukka (2011 – 2014)

Senior Lecturer – Dept of Civil Engineering, University of Nigeria, Nsukka(2014 – Date)

Responsibility: Teaching and Research

Courses Taught

I was employed as a Graduate Assistant but was later converted to Lecturer II upon the completion of my master's programme. My task mainly revolved around teaching, research and administrative activities. I served as the Departmental Librarian for about three (3) years. I have taught the following courses as shown in Table 1

Table 1: Schedule of Courses Taught Till Date

S/N	Course	Category	Approx. No of Students	Session	Class
1	Civil Engineering Materials	Departmental	60	2008	Third year
2	Transportation Engineering	Departmental	60	2009	Fourth year
3	Water Resources (lab)	Departmental	70	2009, 2010, 2012	Third Year
4	Hydraulics	Departmental	70	2011, 2012, 2016	Fourth Year
5	Fluid Mechanics	Faculty	700	2009 – date	Second Year
5	Introduction to Engineering	Faculty	700	2009 – date	First Year
6	Water Resources and Environmental Engineering	Departmental	65	2010 – date	Final Year

Departmental Postgraduate Co-ordinator (2009 – date)

I am the Departmental Postgraduate Co-ordinator. My tasks involved scheduling postgraduate proposal and defence seminars, forwarding of postgraduate project reports to external examiners for moderation, and compilation and subsequent submission of postgraduate students' results to the School of Postgraduate Studies. I also co-ordinate Ph.D oral examinations.

Departmental Examination Officer (2012 – 2014)

I am currently the Departmental Examination Officer. The duties involved include compilation and computation of undergraduate results, preparation of result broadsheets for students, preparation of students' academic records for scholarship and industrial attachment purposes, and other miscellaneous duties.

Project Supervision

I have supervised about twenty (20) undergraduate projects. I am currently supervising over twelve (12) masters and two (2) Ph.D students specializing in Water Resources and Environmental Engineering. I have successfully supervised the following postgraduate students

- (i) **Ebeagwu, C. J.** (PG/M.Eng/13/65369)
- (ii) **Emefu, S. C.** (PG/M.Eng/13/65018)
- (iii) **Oko, M. E.** (PG/M.Eng/13/67178)

4.0 CONSULTANCY EXPERIENCES

1. Study for the Provision of a Central Sewage Treatment Plant for University of Nigeria, Enugu Campus (Hydraulic and sewer design).
2. Mitigation of Gully Erosion at Aka Okwoli / Transit Camp Axis of the University of Nigeria, Nsukka (Hydrological and hydraulic analysis)
3. Study for the expansion of the University of Nigeria Nsukka, Waste Stabilization Pond.
4. Hydrogeological Investigation for the proposed dam at Ogboli – Ohaja in Awgu Local Government Area, Enugu State under the auspices of Anambra Imo River Basin Authority.

5.0 RESEARCH OUTPUT

5.1 Theses

B.Eng Thesis: The Effect of Wind on Structurally Tall Buildings

M.Eng Thesis: The Effects of Off-Take Angle on the Siltation of Canals

Ph.D Thesis: Rational Basis for the Desludging of Septic Tanks

5.2 Publications/Technical Papers

Publications in International Refereed Journals

- [1] **Nnaji, C. C.** Mama, C. N. Ekong, C. I. and Agu, C. (2016) A Comparative Evaluation of the Water Quality Standards of Different Countries, *Asian Journal of Water, Environment And Pollution*, 13 (2): 15 – 28. (Indexed in Scopus)
- [2] **Nnaji, C. C.** Amadi, U. and Molokwu, R. (2016) Investigative Study of Biodeterioration of External Sandcrete/Concrete Walls in Nigeria, *Research Journal of Environmental Toxicology* 10 (2): 88 – 99. (Indexed in Scopus)
- [3] **Nnaji, C. C. (2015)** Effective Hydraulic Conductivity for A Soil Of Variable Pore Size With Depth, *Nigerian Journal of Technology* 34(3): 636 – 642.
- [4] Afangideh, B. C. **Nnaji, C. C.** Onuora, C. and Okafor C. (2015) Comparative Study of the Leachability of Heavy Metals from Sewage Sludge, Sawdust and Organic Fraction of Municipal Solid Waste, *British Journal of Applied Science and Technology*, 10(2)
- [5] Utsev, J. T. **Nnaji, C. C.** and Mama, C. N. (2015) Effect of Flood on Water Resources in North-Central Nigeria, *Asian Journal of Water, Environment and Pollution*, **12** (2): 59 – 71. (Indexed in Scopus)
- [6] Ajah, K. C., Ademiluyi, J. O and **Nnaji, C. C.** (2015) Spatiality, seasonality and ecological risks of heavy metals in the vicinity of a degenerate municipal central dumpsite in Enugu, Nigeria, *Journal of Health, Science and Engineering* 13 (15) DOI 10.1186/s40201-015-0168-0 (*¹IF = 1.0)
- [7] **Nnaji, C. C.** Mama, C. N. And Ukpabi, O. (2015) Hierarchical Analysis Of Rainfall Variability Across Nigeria, *Theoretical and Applied Climatology*, doi:10.1007/s00704-014-1348-z (IF = 1.742)
- [8] **Nnaji, C. C.** (2015) The Status Of Municipal Solid Waste Generation And Disposal In Nigeria, *Management of Environmental Quality: An International Journal*, **26** (1): Earlycite version (Indexed by Scopus)

* IF = impact factor

- [9] Ajon, A. T. Utsev, J. T. and **Nnaji, C. C.** (2014) Physicochemical Quality of Irrigation Water in River Katsina-Ala Catchment Areas of Northern Nigeria, *Current World Environment*, **9** (2): 301 – 311.
- [10] **Nnaji, C. C.** (2014) Quantitative and Physicochemical characterization of domestic solid waste in a typical Nigerian municipality, *Environment Conservation Journal*, **15** (1 & 2): 123 – 133.
- [11] **Nnaji, C. C.** and Mama, C. N. (2014). Preliminary Assessment of Rainwater Harvesting Potential in Nigeria: Focus on Flood Mitigation and Domestic Water Supply. *Water Resources Management*, (2014) 28: 1907 – 1920, doi 10.1007/s11269-014-0579-1. (IF = 2.463)
- [12] **Nnaji, C. C.** and Agunwamba, J. C. (2014). Quality Assessment of Water Receiving Effluents from Crude Oil Flow Station. *Journal of Water and Environment*, **28**: 104 – 113. doi: 10.1111/wej.12016 (IF = 1.187)
- [13] **Nnaji, C. C.**, Ekechukwu, C., Onyia, F. and Afangideh, C. (2014). Multicriteria Assessment of Various Onsite Wastewater Treatment Options for Nigeria. *Journal of Environmental Protection*, **5** (2): 135 – 143, <http://dx.doi.org/10.4236/jep.2014.52017>.
- [14] **Nnaji, C. C.**, Mama, C. N., Ekwueme, A. and Utsev, T (2013). Feasibility of a Filtration-Adsorption Greywater Treatment System for Developing Countries, *Hydrology: Current Research*, S1:006. Doi:10.4172/2157-7587.S1- 006.
- [15] **Nnaji, C. C.** (2014). A Review of the Upflow Anaerobic Sludge Blanket Reactor, *Desalination and Water Treatment*, **52** (2014): 4122 - 4143 doi: 10.1080/19443994.2013.800809 (IF = 0.852)
- [16] **Nnaji, C. C.**, Eluwa, C. and Nwoji, C. (2013). Dynamics of Domestic Water Supply and Consumption in A Semi-Urban Nigerian City. *Habitat International*, <http://dx.doi.org/10.1016/j.habitatint.2013.03.007>, **40** (2013) 127 – 135 (IF = 1.577)
- [17] **Nnaji, C. C.** And Agunwamba, J. C. (2013). The Environmental Impact of Crude Oil Formation Water: A Multivariate Approach. *Water Chemistry and Technology*, **35** (5): 222 – 232. (IF = 0.347)
- [18] **Nnaji, C. C.** And Agunwamba, J. C. (2012). Mass Balance Model for Sludge Accumulation in Septic Tanks. *International Journal of Current Research*, **4**, No. 8 pp 130 – 134.

- [19] **Nnaji, C. C.** and Agunwamba, J. C. (2012). Detention Time as A Critical Parameter in Septic Tank Design. *Asian Journal of Water, Environment and Pollution*, **9** (1): 31 – 38. (Indexed by Scopus)
- [20] **Nnaji, C. C.** and Utsev, J. T. (2011). Climate Change and Waste Management: A Balanced Assessment. *Journal of Sustainable Development in Africa*, **13** (7): 17 – 34.²
- [21] **Nnaji, C. C.**, Agina, I., Iloanya, I. (2011) The Ineffectiveness of Manual Treatment of swimming Pools. *Journal of Applied Science and Environmental Management*, **15** (3): 517 – 522.
- [22] Afangideh, C. B, Ademiluyi, J. O., **Nnaji, C. C.** (2011). LMT Sludge Filtration Equation Using Dimensional Analysis. *Pacific Journal of Science and Technology*, **12** (2): 512 - 519
- [23] **Nnaji, C. C.** (2011). Time Series Analysis of Monthly Rainfall in Nigeria with Emphasis on Self-Organized Criticality. *Journal of Science and Technology*, **31** (1): 139 – 151.

Publications in National Refereed Journals

- [1] **Nnaji, C. C.** and Agunwamba, J. C. (2012). Rational Approach to Septic Tank Design. *Nigerian Journal of Technology*, **31**, (1), pp 68 – 78.
- [2] **Nnaji, C. C.** and Ozougwu, P. (2010). Comparative Analysis of the Biodegradability of Sewage, Abattoir Wastewater and Cassava Wastewater. *Technoscience Review*, **1** (1 & 2): 3 – 9.
- [3] **Nnaji, C. C.** (2010). Prediction of Rainfall Magnitudes and Variations in Nigeria. *Nigerian Journal of Technology*, **29** (2): 46 – 53.
- [4] Agunwamba, J. C. and **Nnaji, C. C.** (2009). The Effects of Off-Take Angle on the Velocity Distribution and Rate of Siltation of Dredged Canals. *Nigerian Journal of Technology*, **28** (2): 13 – 22.
- [5] Agunwamba, J. C., **Nnaji, C. C.** and Igwenagu, E. C. B. (2009). Prediction of Soil Erosion Using a Modified WEPP Model. *Journal of Engineering and Industrial Design*, **1** (1): 24 – 34.

* IF = impact factor

[6] **Nnaji, C. C.** (2009). Rational Basis for Determining the Desludging Interval of Septic Tanks. *Journal of Agricultural Engineering and Technology*, **17** (1): 94 – 100.

[7] Agunwamba, J. C. and **Nnaji, C. C.** (2008). The Oil Adsorption Characteristics of Sphalum Peat Moss (*Moss Sp*) *International Journal of Pure and Applied Science*, **1** (2): 111 – 116.

Book Chapters

Nnaji, C. C. (2016), “Material and Energy Recovery Potential of Municipal Solid Waste in Nigeria” In *dealing with Waste: Resource Recovery and Entrepreneurship in Informal Sector Waste management in African Cities*, edited by Adama, O. and Nzeadibe, C., Africa World Press, Trenton.

5.3 Conferences And Workshops

<u>CONFERENCE (Title, date & Places)</u>	<u>Paper Read</u>
National Workshop On Urban Water Supply And Environmental Sustainability In Nigeria, 24 th - 26 th August 2011, Paul University, Awka	Re-thinking Septic Tank Use as an Onsite Wastewater Treatment Facility.
Five Decades of Oil production in Nigeria: Impacts and Prospects Towards Developing the Niger Delta co-hosted by Centre for Environmental and Niger Delta Studies and Delta State University, Abraka, 2012.	Comparative Study of Fourteen Surface Water Bodies Impacted By Anthropogenic Activities.

5.4 Review of Article for Reputable Journals

<u>Journal</u>	<u>No of Articles Reviewed</u>	<u>YEAR</u>
Nigerian Journal of Technology	Over thirty (30)	2011 - date
Water Resources Management (Springer)	Two	2014 - date
Journal of Science and Technology (Kwame Nkrumah	Three	2013 - date

University of Science and Technology)		
Theoretical and Applied Climatology (Springer)	one	2014
Current World Environment	One	2014
American Journal of Environmental sciences	Two (one in progress)	2016
Management of Environmental Quality: An International Journal	Two (one in progress)	2015 - date
International Journal of Water	One	2015
Human and Ecological Risk Assessment: An International Journal	One	2016

5.5 Editorial Board Membership of Journals

I am an editorial board member of the following journals

- Nigerian Journal of Technology
- Journal of Environmental Science and Technology
- Research Journal of Environmental Sciences

5.6 Research Interest

- Water Supply
- Rainwater Harvesting
- Solid Waste Management
- Water And Wastewater Treatment
- Climate Change
- Soil And Water Pollution
- Environmental Monitoring
- Hydrology

6.0 Membership of Professional Bodies

1. Nigerian Society of Engineers (30299)
2. Council for Regulation of Engineering in Nigeria (R. 30,587)

3. International Water Resources Association

REFEREES

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2. Engr. Prof. J. O. Ademiluyi

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