

OBAFEMI AWOLOWO UNIVERSITY
CURRICULUM VITAE

A Personal Data

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| 1. Full Name (Surname first) | AYODELE Adekemi Loretta |
| 2. Date of Birth | 20 th December 1976 |
| 3. Nationality | Nigerian |
| 4. State of Origin | Ondo State |
| 5. Senatorial District | Ondo Central |
| 6. Local Government | Akure South Local Government Area |
| 7. Permanent Home Address | House B9, Road 13,
OAU Staff Quarters,
OAU, Ile-Ife. |
| 8. Marital Status | Married |
| 9. Number of Children and their ages | Four (13 years, 11 years, 7 years, 2 year) |
| 10. Next of kin | Dr. Kayode P. AYODELE |
| 11. Address of next of Kin | House B9, Road 13,
OAU Staff Quarters,
OAU, Ile-Ife. |
| 12. Date of Assumption of Duty | June 1, 2004 |
| 13. Rank/Status on First Appointment | Graduate Assistant |
| 14. Present Status | Lecturer I |
| 15. Date of Last Promotion | September 12, 2014 |
| 16. Present Salary, Grade Level and Step | CONUASS Level 4 Step 4 |
| 17. Date of Confirmation of Appointment | 4 th November, 2015 |
| 18. Faculty/Directorate | Technology |
| 19. Department/Unit | Civil Engineering |

B Educational Background

1. Higher Educational Institutions Attended With Dates

- a. Obafemi Awolowo University, Ile-Ife, Osun State, 2009 - 2014
- b. Obafemi Awolowo University, Ile-Ife, Osun State, 2005 - 2008
- c. Obafemi Awolowo University, Ile-Ife, Osun State, 1994 – 2000
- d. St. Louis Grammar School, Akure, Ondo State, 1988-1993

2. Academic and Professional Qualifications and Distinctions Obtained with Dates

- a. Ph.D. (Civil Engineering), 12th September 2014
- b. M.Sc. (Civil Engineering), 8th December 2008
- c. B.Sc. (Civil Engineering), July 2000
- d. Senior Secondary School Certificate, June 1993
- e. Registered Engineer with COREN (R. 12600), 2006

3. Other Distinctions and Awards with Dates

- a. Best Result award at St Louis Grammar School, Akure (1993)
- b. Winner of OAU-Carnegie Fellowship for Female Staff, 2014

C Work Experience With Dates

1. Previous Work Experience Outside the University with Dates

- | | | |
|---|--------------------|-----------------------|
| a. Advanced Engineering consultant, Ilupeju, Lagos. | Highway Engineer | Sept. 2001 - May 2004 |
| b. Bauchi State Development Board, Bauchi State | Corps Engineer | June 2000 – July 2001 |
| c. Teans Nigeria Limited, Lagos | Industrial Trainee | Aug. 1998 – Jan. 1999 |

2. Previous Work Experience in Other Universities with Dates: None

3. Work Experience in Obafemi Awolowo University

- a. Lecturer I 12th September 2014 till date
- b. Lecturer II 8th December 2008 to 12th September 2014
- c. Assistant Lecturer 30th October 2006 – 8th December 2008
- d. Graduate Assistant 1st June 2004 -30th October 2006

Responsibilities: Lecturing and coordination of B.Sc. and M.Sc. courses, supervision of various undergraduate projects, Research and Service

4. Courses Taught Within the Current Academic Session

Course Code and Title	Unit	% Involvement
CVE 401 – Technical Report Writing	2	25
CVE 407- Geotechnical Engineering 1	2	100
CVE 202 - Strength of Materials	3	25
CVE 304 – Introduction to Civil Engineering Practice	2	100
CEG 605 – Advanced Foundation Design	3	100
CEG 621 – Advanced Soil Mechanics	3	100
CEG 623 – Pavement Design and Soil Stabilisation	3	50
CEG 628 – Soil Dynamics	3	100

5. Graduate Student Supervision Within Current Session

One (1)

6. Current Undergraduate Supervision:

Five (5)

D Membership of Professional Bodies

- i. Corporate Member, Nigerian Society of Engineers (NSE REG. 15469) 2005
- ii. COREN-registered (R. 12600) 2006
- iii. Member, American Society of Civil Engineers

E Publications

1. Thesis/Dissertations

- i. **Ayodele A. L.** (2014): “A Study of Electrochemical Treatment of Typical Soft Lateritic Soil” Unpublished Ph.D. Thesis, Obafemi Awolowo University, Ile-Ife.
- ii. **Ayodele A. L.** (2008): “A Study of the Effect of Fines Content on the Performance of Soil as Sub-base Material” Unpublished M.Sc. Thesis, Obafemi Awolowo University, Ile-Ife.
- iii. **Oyateru A.L.** (2000): “Aerobic Composting of Municipal Solid wastes”, Unpublished B.Sc. Thesis, Obafemi Awolowo University, Ile-Ife.

2. Books and Monographs

None

3. Contribution to Books

None

4. Published Journal Articles

- i. **Ayodele A.L.**, Falade F.A. and Ogedengbe M.O. (2009): Effects of Fines Content on Some Engineering Properties of Lateritic Soils in Ile-Ife, Nigeria. *Journal of Engineering Research*. 14(1):10-20
- ii. **Ayodele A.L.**, Agbede O.A. and Babalola O. T. (2013): The effects of Ferrous Sulphate Heptahydrate and Lead Nitrate on the Atterberg Limits and Consolidation Indices of Laterite. *Ife Journal of Technology*, 22(1), 39-45.
- iii. **Ayodele A.L.**, Oke I.A. and O.A. Agbede (2014): Effect of Selected Factors on the Current flow and Voltage Loss at Electrodes during Electrochemical Treatment of a

- Laterite. *Ife Journal of Science*, 16(3): 481-494.
- iv. Oke I.A. and **Ayodele A.L.** (2014): Statistical Evaluation of Selected Methods in Foundation Engineering. *Ife Journal of Science*, 16(3): 517-525.
 - v. Oke I.A. and **Ayodele A.L.** (2015): Engineering and Environmental Analysis of Sludge from Electrochemical Treatment of Selected Waste-waters. *Journal of Environmental Design and Management*, 7(1): 52-65.
 - vi. **Ayodele A. L.**, Anifalaje O. and Bakare O.M. (2016): Effects of some factors on electro-osmotic dewatering of laterite. *Ife Journal of Science*, 18(1): 019-028.
 - vii. **Ayodele A.L.** and Falade F.A. (2016): "Some geotechnical properties of selected sub-base materials for road construction". *International Journal of Civil Engineering Research*. 8(8): 31-39.
 - viii. **Ayodele A. L.**, Adebisi A. O. and Kareem M. A. (2016): Use of Sludge Ash in Stabilising Two Tropical Laterite. *International Journal of Scientific Engineering Research*. 7(8): 104-108.
 - ix. **Ayodele A.L.**, Ayodele K.P., Isola B., Inyang I. (2016): Achieving Highly Effective Personalised Learning through Learning Objects. *African Journal of Engineering Education* 1(1): 78-90.
 - x. **Ayodele A.L.**, Aluko O.D. and Joseph A.A. (2016): Soaked and Unsoaked California Bearing Ratio of Soils Reinforced with Geolon Tencate. *Journal of Environmental Design and Management* 8(1 & 2): 145 – 154.
 - xi. **Ayodele A.L.** and Agbede O.A. (2017): "Influence of Electrochemical Treatment on a Typical Laterite" *Ground Improvement* 171(2): 103-111. doi.org/10.1680/jgrim.16.00030
 - xii. **Ayodele A.L.**, Pamucku S., Shrestha R.A. and Agbede O.A. "Electrochemical Soil Stabilization and Verification" Submitted to Geotechnical and Geological Engineering. Doi 10.1007/s10706-017-0392-8

5. Edited and Refereed Conference Proceedings

- i. **Ayodele A.L.** and Adejugba P.F. (2012): "An Assessment of Bearing Capacity of Sandy and Clayey Soils Reinforced with Unshredded Carpet", Proceedings of the OAU Faculty of Technology Conference, Ile-Ife, Nigeria. Pages 247-253.
- ii. **Ayodele A.L.**, Adesanya M.M, Owolafe A.S., Adunoye G.O. and Fajobi A.B. (2017): "Comparative Study of the Effects of an Acid, a Base and a Salt on the Atterberg's Limits of Selected Laterites from Southwestern Nigeria", Proceedings of the OAU Faculty of Technology Conference, Ile Ife, Nigeria Pages
- iii. **Ayodele A. L.**, Ayinde O. O. And Effiong U. J. (2017): "Geotechnical Properties of a Soil Contaminated with Diesel Oil", Proceedings of the OAU Faculty of Technology Conference, Ile Ife, Nigeria Pages

6. Articles Accepted for Publication

Nil

7. Manuscripts Submitted for Publication

- i. **Ayodele A.L.** and Agbede O.A. "Atterberg's limits of a typical laterite subjected to electrochemical treatment" Submitted to Journal of Civil and Environmental Engineering.
- ii. Oke I.A., Akindahunsi A.A. and **Ayodele A.L.** "Water Infrastructures and Engineering in South West, Nigeria"
- iii. A.L. Ayodele, O.M. Oketope and O.S. Olatunde. "Effect of sawdust ash and eggshell ash on selected engineering properties of laterized bricks for low cost housing" Nigerian Journal of Engineering

8. Creative Work

- i. Ayodele K.P. and **Ayodele A.L.** (2012): "The Nigerian Engineering Student's Handbook". Self-published and currently free self-help eBook treating important student-related issues

that are often not directly addressed within engineering curricula.

9. Technical Reports

Report on Post-Graduation Practical Experiences submitted to NSE and COREN (2006)

10. Papers and Work in Progress

- i. Effect of different organic and inorganic contaminants on the Geotechnical properties of soil
- ii. Effect of electrochemical treatment on the geotechnical properties of soil
- iii. Electro-osmotic dewatering of soil and sludge
- iv. Measurement of dynamic soil properties with minimal soil disturbance using Bender Elements

F Professional Accomplishment:

I have carried out the design of bridges and road spanning various kilometres, I have also designed culverts and drainage structures, I supervised the construction of retaining walls and asphaltic pavement roads. My professional accomplishment is also as per E1,4,5,6,8 & 9.

G Conferences, Seminars and Workshops Attended with Dates

- (i) International seminar on Computer aided design and analysis of buildings, Lagos, Nigeria. 2002
- (ii) University Research Committee (URC) workshop to aid publications in learned journals, Ile-Ife, Nigeria. 2008
- (iii) Faculty of Technology International Conference (RETAV) 2009
- (iv) Faculty of Technology National Conference 2011
- (v) A workshop on Scientific Writing, Publishing, Oral Communication and Presentation, September 2011
- (vi) A workshop on proposal writing, OAU, Ile-Ife October 2011
- (vii) Faculty of Technology Conference, OAU, Ile-Ife, September 23-27, 2012
- (viii) 12th International Symposium on Electrokinetic Remediation, Northeastern University, Boston, USA June 23-25, 2013.
- (ix) Environment Design and Management International Conference, OAU, Ile-Ife, Nigeria. March 9-13, 2015.
- (x) Faculty of Technology International Conference, OAU, Ile-Ife, September 20-25, 2015.
- (xi) Electrochemical Remediation Conference, Spain, 2014, Poster presentation, 'Diagnostics of electrochemical soil stabilization'
- (xii) Faculty of Technology International Conference, OAU, Ile-Ife, September 25-27, 2017

H Current Research Activities

- i. Electrochemical stabilisation of weak soils
- ii. Effect of different electrolyte on the electrochemical treatment process
- iii. Electrochemical treatment of contaminated soils
- iv. Use of Bender Elements in measuring soil properties

I Other Relevant Information

1. Services Within the Department

- a. Academic Adviser for Part 5 students
- b. Member, Departmental Board of Examiners
- c. Supervision of Five Undergraduate Final year project students
- d. Departmental Librarian
- e. SIWES co-ordinator

2. Services Within the Faculty

- a. Member of Faculty of Technology Consultancy Committee
- b. Member Faculty Board of Technology
- c. Member, Local Organising Committee, Faculty Conference, 2015
- d. Departmental co-ordinator, Examination and Result Processing
- e. Member, Local Organising Committee, Faculty Conference, 2017

3. Services within the University

- a. Member, Electoral Committee, Awoversity CICS
- b. Departmental Industrial training co-ordinator for 2006/07, 2007/08,2014/15 and 2015/16 Sessions

4. Services Outside the University:

- a. Member, Association of Professional Women Engineers in Nigeria, Ile-Ife Branch
- b. Reviewer for Geotechnical and Geological Engineering international journal
- c. Reviewer for Ground Improvement

J Contributions to Knowledge

My research activities have established the effects of varying percentage of fines content on the engineering properties of lateritic soil. I have generated models using regression analysis to determine some engineering properties of soil for preliminary analysis. My research activities have also established that the use of mineral acids such as phosphoric acid is more effective than calcium based salts in stabilizing tropical laterite. Thus, PO_4^{3-} ions from phosphoric acid rather than Ca^{2+} ions from CaCl_2 during electrochemical stabilization of soil should be used. I have also established that the use of bender elements to measure soil properties is a viable option to measure the level of improvement in soil properties during electrochemical treatment of soil.

SIGNATURE_____

DATE_____