



Isaac Ibukun AKINWUMI

Ph.D., M.Eng., B.Eng.

Senior Lecturer

Department of Civil Engineering

35B Civil Engineering Building

KM 10, Idiroko Road, Ota, Nigeria

Email: isaac.akinwumi@covenantuniversity.edu.ng

MY RESEARCH INTERESTS

I am interested in protecting the environment, its vital resources such as groundwater, and public health. I am involved in research works in the areas of Geotechnical Engineering and Geoenvironmental engineering, sustainable construction materials and Environmental Engineering (water, sanitation and hygiene and waste management, marine plastic pollution).

PUBLICATIONS

Journal

(A) Geotechnical Engineering and Geoenvironmental Engineering

1. Adeyanju, E., Okeke, C.A., **Akinwumi, I.I.** and Busari, A. (2020). "Subgrade Stabilization using Rice Husk Ash-based Geopolymer (GRHA) and Cement Kiln Dust (CKD)". *Case Studies in Construction Materials*. <https://doi.org/10.1016/j.cscm.2020.e00388>.
2. Gobinath, R., **Akinwumi, I.I.**, Afolayan, O. D., Karthikeyan, S., Manojkumar, M., Gowtham, S. and Manikandan, A. (2020) "Banana Fibre-Reinforcement of a Soil Stabilized with Sodium Silicate", *Silicon*, 12(2), 357–363. <https://doi.org/10.1007/s12633-019-00124-6>.
3. **Akinwumi, I.I.**, Domo-Spiff, A.H. and Salami, A. (2019) "Marine plastic pollution and affordable housing challenge: Shredded waste plastic stabilized soil for producing compressed earth bricks". *Case Studies in Construction Materials*, 11, e00241 (1–8). <https://doi.org/10.1016/j.cscm.2019.e00241>.
4. **Akinwumi, I.I.**, Ajayi, O.O., Agarana, M.C., Ogbiye, A.S., Ojuri, O.O. and David, A.O. (2019) "Investigation of calcium carbide residue as stabilizer of tropical sand for use as pavement material", *WIT Transactions on The Built Environment*, 182, 285–294.
5. Afolayan, O.D., Olofinnade, O.M. and **Akinwumi, I.I.** (2019) " Use of some agricultural wastes to modify the engineering properties of subgrade soils: A review". *Journal of Physics: Conference Series*, 1378(1), 022050(1–12). <https://iopscience.iop.org/article/10.1088/1742-6596/1378/2/022050>.
6. **Akinwumi, I.I.**, Ajayi, O.O., Joshua, O., Sani, R., Olofinnade, O.M., Awoyera, P.O., Ogundairo, T.O., Ogunwole, D.A. and Afolayan, O.D. (2019) "Housing crisis: Waste glass-stabilized clay for use as fired clay bricks". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012072(1–10). <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012072>.

7. Ogunwole, D.A. and **Akinwumi, I.I.** (2019) "Geotechnical characteristics of a selected shallow marine area considered for quay wall construction". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012075. <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012075>.
8. Ojuri, O.O., Ajijola, T.O. and **Akinwumi, I.I.** (2018) "Design of an engineered landfill as possible replacement for an existing dump at Akure, Nigeria", *African Journal of Science, Technology, Innovation and Development*, 10(7), 835–843. <https://doi.org/10.1080/20421338.2018.1523827>.
9. Busari, A.A., **Akinwumi, I.I.**, Awoyera, P.O., Olofinnade, O.M., Tenebe, T.I. and Nwanchukwu, J.C. (2018) "Stabilization Effect of Aluminum Dross on Tropical Lateritic Soil", *International Journal of Engineering Research in Africa*, 39, 86-96.
10. **Akinwumi, I.I.**, Ojuri, O.O., Ogbiye, A.S. and Booth, C.A. (2017) "Engineering properties of tropical clay and bentonite modified with sawdust", *Acta Geotechnica Slovenica*, 14(2), 47–56.
11. Ojuri, O.O., **Akinwumi, I.I.** and Oluwatuyi, O.E. (2017) "Nigerian Lateritic Clay Soils as Hydraulic Barriers to Adsorb Metals: Geotechnical Characterization and Chemical Compatibility", *Environment Protection Engineering*, 43(4), 209–222.
12. Ashwin, K.R.N., Arun, M., Sasikumar, S., Krishnaraj, T., Mithuna, R., Gobinath, R. and **Akinwumi, I.I.** (2017) "Freeze-thaw Resistance of an Alluvial Soil Stabilized with EcoSand and Asbestos-free Fiber Powder", *International Journal of Geomatics and Geosciences*, 7(4), 352–357.
13. Adewoyin, O.O., Joshua, E.O., **Akinwumi, I.I.**, Omeje, M., and Joel, E.S. (2017) "Evaluation of Geotechnical Parameters using Geophysical data", *Journal of Engineering and Technological Sciences*, 49(1), 95-113.
14. Ganapathy, G.P., Gobinath, R., **Akinwumi, I.I.**, Kovendiran, S., Thangaraj, M., Lokesh, N., Muhamed Anas, S., Arul murugan, R., Yogeswaran, P. and Hema, S. (2017) "Bio-Enzymatic Stabilization of a Soil Having Poor Engineering Properties", *International Journal of Civil Engineering* 15(3), 401–409. <http://dx.doi.org/10.1007/s40999-016-0056-8>
15. Kayode, O.T. and **Akinwumi, I.I.** (2017) "Residual soils derived from charnockite and migmatite as road pavement layer materials", *Journal of Materials and Environmental Science*, 8(2), 657–665.
16. **Akinwumi, I.I.**, Ojuri, O.O., Edem, D. and Ogbiye, A.S. (2016) "Sawdust stabilization of Lateritic Clay as a Landfill Liner to Retain Heavy Metals", *Geotechnical Special Publication (GSP)*, GSP No 271, 478–487.
17. Gobinath, R., Ganapathy, G.P., **Akinwumi, I.I.**, Kovendiran, S., Hema, S. and Thangaraj, M. (2016) "Plasticity, strength, permeability and compressibility characteristics of black cotton soil stabilized with precipitated silica", *Journal of Central South University* 23(10), 2688–2694.
18. **Akinwumi, I.I.**, Booth, C.A., Diwa, D. and Mills, P. (2016) "Cement Stabilisation of Crude-Oil-Contaminated Soil", *Proceedings of the Institution of Civil Engineers – Geotechnical Engineering* 169(4), 336–345. <https://doi.org/10.1680/jgeen.15.00108>
19. **Akinwumi, I.I.**, Awoyera, P.O. and Bello, O.O. (2015) "Indigenous Earth Building Construction Technology in Ota, Nigeria", *Indian Journal of Traditional Knowledge*, 14(2), 206–212.
20. **Akinwumi, I.I.** and Ukegbu, I. (2015) "Soil Modification by Addition of Cactus Mucilage", *Geomechanics and Engineering*, 8(5), 649–661.
21. **Akinwumi, I.I.** and Booth, C.A. (2015) "Experimental Insights of Using Waste Marble Fines to Modify the Geotechnical Properties of a Lateritic Soil", *Journal of Environmental Engineering and Landscape Management*, 23(2), 121–128.

22. Gobinath, R., Ganapathy, G.P. and **Akinwumi, I.I.** (2015) “Evaluating the use of lemon grass roots for the reinforcement of a landslide-affected soil from Nilgris district, Tamil Nadu, India”, *Journal of Materials and Environmental Science*, 6(10), 2681–2687.
23. **Akinwumi, I.I.** and Aidomojie, O.I. (2015) “Effect of corncob ash on the geotechnical properties of lateritic soil stabilized with Portland cement”, *International Journal of Geomatics and Geosciences*, 5(3), 375–392.
24. **Akinwumi, I.I.** (2014) “Earth Building Construction Processes in Benin City, Nigeria and Engineering Classification of Materials Used”, *Indian Journal of Traditional Knowledge*, 13(4), 686–690.
25. **Akinwumi, I.I.** (2014) “Soil Modification by the Application of Steel Slag”, *Periodica Polytechnica Civil Engineering*, 58(4), 371–377.
26. **Akinwumi, I.I.**, Maiyaki, U.R., Adubi, S.A, Daramola, S.O. and Ekanem, B.B. (2014) “Effects of Waste Engine Oil Contamination on the Plasticity, Strength and Permeability of Lateritic Clay”, *International Journal of Scientific and Technology Research*, 3(9), 331–335.
27. **Akinwumi, I.I.** (2014) “Plasticity, Strength and Permeability of Reclaimed Asphalt Pavement and Lateritic Soil Blends”, *International Journal of Scientific and Engineering Research*, 5(6), 631–636.
28. **Akinwumi, I.I.**, Diwa, D. and Obianigwe, N. (2014) “Effects of Crude Oil Contamination on the Index Properties, Strength and Permeability of Lateritic Clay”, *International Journal of Applied Sciences and Engineering Research*, 3(4), 816–824.
29. Ojuri, O.O. and **Akinwumi, I.I.** (2012) “Influence of Nitrate Contamination on the Swell and Compressibility Characteristics of a Tropical Clayey Soil”, *European Journal of Scientific Research*, 87(4), 585–595.

(B) Construction Materials

30. Awoyera, P.O., **Akinwumi, I.I.**, Karthika, V., Gobinath, R., Gunasekaran, R., Lokesh, N., Manikandan, M. and Narmatha, T. (2019) “Lightweight Self-Compacting Concrete Incorporating Industrial Rejects and Mineral Admixtures: Strength and Durability Assessment”, *Silicon*. <https://link.springer.com/article/10.1007/s12633-019-00279-2>.
31. Olofinnade, O.M., Busari, A.A., **Akinwumi, I.I.**, Awoyera, P.O. and Ekanem, J. (2019) "Perception of professionals on causes of structural cracks in concrete buildings". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012036(1–9). <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012036>.
32. Ogundairo, T.O., Adegoke, D.D., **Akinwumi, I.I.** and Olofinnade, O.M. (2019) "Sustainable use of recycled waste glass as an alternative material for building construction–A review". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012073. <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012073>.
33. Olofinnade, O.M., Oyawoye, I.T., Ogara, J.I., Ede, A.N., Ndambuki, J.M., **Akinwumi, I.I.** and Ajao, A.M. (2019) "The use of recycled concrete aggregate for concrete production incorporating calcined clay as pozzolanic admixture". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012047(1–7). <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012047>.
34. Adamu, P.I., **Akinwumi, I.I.** and Okagbue, H.I. (2019) “Reactive project scheduling: minimizing delays in the completion times of projects”, *Asian Journal of Civil Engineering*, 20, 1189–1202. <https://doi.org/10.1007/s42107-019-00177-3>
35. Olofinnade, O., Ede, A., Ndambuki, J., Ngene, B., **Akinwumi, I.I.** and Ofuyatan, O. (2018) “Strength and microstructure of eco-concrete produced using waste glass as partial and complete replacement for sand”, *Cogent Engineering*, <https://doi.org/10.1080/23311916.2018.1483860>.

36. Karthik, S., Rao, R.M., Awoyera, P., **Akinwumi, I.I.**, Karthikeyan, T., Revathi, A., Mathivanan, J., Manikandan, V. and Saravanan, S. (2018) “Beneficiated pozzolans as cement replacement in bamboo-reinforced concrete: the intrinsic characteristics”, *Innovative Infrastructure Solutions*, 3:50. <https://doi.org/10.1007/s41062-018-0157-0>.
37. Karthika, V., Awoyera, P.O., **Akinwumi, I.I.**, Gobinath, R., Gunasekaran, R. and Lokesh, N. (2018) “Structural properties of lightweight self-compacting concrete made with pumice stone and mineral admixtures”, *Romanian Journal of Materials*, 48(2), 208–213.
38. Oyebisi, S., Ede, A., Ofuyatan, O., Oluwafemi, J. and **Akinwumi, I.I.** (2018) “comparative study of corncob ash-based lateritic interlocking and sandcrete hollow blocks”, *International Journal of Geomate*, 15(51), 209–216.
39. Bamigboye, G.O., Olaniyi, O.A., Olukanni, D.O., Ede, A.N. and **Akinwumi, I.I.** (2017) “Diameter inconsistency, strength and corrosion characteristics of locally-produced and imported steel reinforcing bars in Ilorin, Nigeria”, *International Journal of Engineering Research in Africa*, 29, 90-97.
40. Awoyera, P.O., Olofinnade, O.M., Busari, A.A., **Akinwumi, I.I.**, Oyefesobi, M. and Ikemefuna, M. (2016) “Effects of varying water-cement ratio on workability and strength of steel slag aggregate concrete”, *Jurnal Teknologi* 78(10), 125–131.
41. **Akinwumi, I.I.**, Awoyera, P.O., Olofinnade, O.M., Busari, A.A. and Okotie, M. (2016) “Rice husk as a concrete constituent: Workability, water absorption and strength of the concrete”, *Asian Journal of Civil Engineering* 17(7), 887–898.
42. **Akinwumi, I.I.**, Olatunbosun, O.M., Olofinnade, O.M. and Awoyera, P.O. (2014) “Structural Evaluation of Lightweight concrete Produced Using Waste Newspaper and Office Paper”, *Civil and Environmental Research*, 6(7), 160–167.
43. Awoyera, P.O., **Akinwumi, I.I.**, Ede, A.N. and Olofinnade, O.M. (2014) “Forensic Investigation of Fire-affected Reinforced Concrete Buildings”, *IOSR Journal of Mechanical and Civil Engineering*, 11(4), 17–23.
44. **Akinwumi, I.I.** and Gbadamosi, Z.O. (2014) “Effects of Curing Condition and Curing Period on the Compressive Strength Development of Plain Concrete”, *International Journal of Civil and Environmental Research*, 1(2), 83–99.
45. Awoyera, P.O. and **Akinwumi, I.I.** (2014) “Compressive Strength Development for Cement, Lime and Termite-hill Stabilized Lateritic Bricks”, *The International Journal of Engineering and Science*, 3(2), 37–43.
46. Awoyera, P.O., Arum, C. and **Akinwumi, I.I.** (2014) “Significance of Concrete Cover to Reinforcement in Structural Elements at Varying Temperatures”, *International Journal of Scientific and Engineering Research*, 5(6), 1120–1123.
47. Ede, A.N., Salami, A.J., Olukanni, D.O., Ogbiye, A.S., Omole, D.O. and **Akinwumi, I.I.** (2014) “Life Cycle Cost Evaluation of Using Expanded Polystyrene for Residential Buildings”, *International Journal of Engineering Sciences and Management*, 4(2), 11–15.
48. Loto, R.T., Loto, R.O., Joseph, O.O. and **Akinwumi, I.I.** (2015) “Electrochemical studies of the corrosion inhibition property of Rosmarinus Officinalis on mild steel in dilute sulphuric acid”, *Journal of Chemical and Pharmaceutical Research*, 7(7), 105–116.
49. Loto, R.T. and **Akinwumi, I.I.** (2015) “Electrochemical influence of aminobenzene on the pitting corrosion behaviour of Type 304 stainless steel in dilute sulphuric acid”, *Journal of Materials and Environmental Science*, 6(2), 297–306.

(C) Environmental Engineering

50. Ogbiye, A.S., Ajiboye, J.O., **Akinwumi, I.I.**, Fagbenle, E. and Onakunle, O.O. (2019) "A Comparative Study of Operations and Maintenance of Iju Water Works". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012076. <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012076>.
51. Adamu, P.I., Okagbue, H.I., **Akinwumi, I.I.** and Idowu, C. (2019) "Trends of non-communicable diseases and public health concerns of the people of northeastern Nigeria amidst the Boko Haram insurgency", *Journal of Public Health: From Theory to Practice*, <https://doi.org/10.1007/s10389-019-01157-2>
52. Fayomi, G.U., Mini, S.E., Fayomi, O.S.I., Oyeleke, O., Omole, D.O. and **Akinwumi, I.I.** (2019) "Overview of Industrial Pollution Activities and its Curbing Mechanisms". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012097. <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012097>.
53. Fayomi, O.S.I., Ayoola, A.A., Morounfoluwa, J. and **Akinwumi, I.I.** (2019) "Pollution emission evolution from composite and metal formation in Foundry Industry". *IOP Conference Series: Materials Science and Engineering*, 640(1), 012098. <https://iopscience.iop.org/article/10.1088/1757-899X/640/1/012098>.
54. Shyamala, G., Jeyanthi, J., Gobinath, R., **Akinwumi, I.I.** and Maheswari, M. (2017) "Assessment of groundwater quality using spatial variation technique", *Journal of Chemical and Pharmaceutical Sciences*, 10(4), 9–15.
55. Olukanni, D.O., Akinyinka, O.O., Ede, A.N., **Akinwumi, I.I.** and Ajanaku, K.O. (2014) "Appraisal of Municipal Solid Waste Management, its Effect and Resource Potential in a Semi-Urban City: a Case Study", *Journal of South African Business Research*, 2014 (2014), Article ID 705695.

(D) Others

56. Ajayi, O.O., Agarana, M.C., **Akinwumi, I.I.**, Okokpujie, P. I., Salawu, E. Y., Abioye, A. A., Afolalu, A. S. and Leramo, R. O. (2019) "Modelling Rate of Traffic-Induced Building Vibrations in Sango-Ota, Nigeria: An Assumption Based Analysis", *WIT Transactions on The Built Environment*, 182, 303–313.
57. Agarana, M.C., Ajayi, O.O. and **Akinwumi, I.I.** (2019) "Integer Programming Algorithm for Public Transport System in Sub-Saharan African Cities", *WIT Transactions on The Built Environment*, 182, 339–350.

Conference Proceedings

58. Joshua, O., Ofuyatan, O.M., Busari, A.A., **Akinwumi, I.I.**, Olawuyi, J. Babatunde, O.J., Nduka, D.O. and Ibitayo A. Oladipupo, I.A. (2019) "The Effects of Superabsorbent Polymer (SAP) on Concrete in Marine Environment". Canadian Society of Civil Engineers Annual Conference 2019. https://csce.ca/elf/apps/CONFERENCEVIEWER/conferences/2019/pdfs/PaperPDFVersion_45_0516054354.pdf
59. **Akinwumi, I.I.**; Ojuri, O.O.; Ogbiye, A.S.; Booth, C.A. (2016) "Engineering of clay lining system for landfills using bio-material to improve its adsorption of Pb²⁺", Book of Abstract, Engineering and Life Conference, Page 42, 19-21 October 2016, Hanover, Germany.
60. Olukanni, D.; Aderonmu, P.; **Akinwumi, I.I.** (2015) "Pedagogic repositioning of curriculum in Architecture and Civil Engineering education to meet indigenous needs", Proceedings of the IATED 7th International Conference on Education and New Learning Technologies (EDULEARN 2015), Barcelona.
61. Olukanni, D.; Aderonmu, P.; Ogbiye, A.; **Akinwumi, I.I.** (2014) "Re-integrating vocational technical skill acquisition into the educational curriculum: Capacity building for future professionals", Proceedings of the IATED International Conference of Education Research and Innovation (ICERI 2014), Seville.

62. Isiorho, S.A.; Omole, D.O.; Ogbiye, A.S.; Olukanni, D.O.; Ede, A.N.; **Akinwumi, I.I.** (2014) “*Study of Reed-bed of an Urban Wastewater in a Nigerian Community*”, Proceedings of the IASTED International Conference, Environmental Management and Engineering (EME 2014), Banff, Canada, pp. 143–147.
63. Olukanni, D.O.; Ede, A.N.; **Akinwumi, I.I.** and Ajanaku, K.O. (2013) “*Environment, Health and Wealth Issues of Municipal Solid Waste Management in Southwestern Nigeria: The Example of Ota, Ogun State*”, Proceedings of 22nd International Business Information Management Association (IBIMA) Conference, Rome, 1730–1743.
64. Ejohwomu, I.I.; Hammond, F.; Shofoluwe, M.; Ejohwomu, O.A. and **Akinwumi, I.I.** (2013) “*A Quantitative Assessment of Risk Management Practices of General Contractors in Nigeria*”, Proceedings of Second International Conference on Infrastructure Development in Africa, Johannesburg, pp. 233–239.
65. **Akinwumi, I.I.**; Adeyeri, J.B. and Ejohwomu, O.A. (2012) “*Effects of Steel Slag Addition on the Plasticity, Strength and Permeability of Lateritic Soil*”, Proceedings of Second International Conference on Sustainable Design, Engineering and Construction, Texas, American Society of Civil Engineers, 457–464.

Book/Book Chapter

66. Gobinath, R., Ganapathy, G. P., **Akinwumi, I.I.**, Prasath, E., Raja, G., Prakash, T. and Shyamala, G. (2020) “Soil Erosion Protection on Hilly Regions Using Plant Roots: An Experimental Insight”. In Gully Erosion Studies from India and Surrounding Regions (eds. P. K. Shit et al.), Chapter 20, 321–335, Advances in Science, Technology & Innovation, Springer Nature, https://doi.org/10.1007/978-3-030-23243-6_20.
67. **Akinwumi, I.I.**; Booth, C.A.; Ojuri, O.O.; Ogbiye, A.S.; Coker, A.O. (2018) “*Containment of Pollution from Urban Waste Disposal Sites*”. In S. Charlesworth & C. A. Booth (Ed.), Urban Pollution: Science and Management (Chapter 17), John Wiley & Sons Ltd. doi:10.1002/9781119260493.ch17.

Thesis/Dissertation

- Akinwumi, I.I. “Removal of lead, cadmium and nickel by sawdust-modified tropical clay for use as landfill liner material”, Ph.D. Thesis, Covenant University, Ota, Nigeria, 2017.
- Akinwumi, I.I. “Utilization of Steel Slag for the Stabilization of a Lateritic Soil”, M.Eng. Dissertation, Covenant University, Ota, Nigeria, 2012.
- Akinwumi, I.I. “On-site wastewater treatment system design for a marshy urban area”, B.Eng. Dissertation, Federal University of Technology Akure, Nigeria, 2006.

ACADEMIC SCHOLARSHIP

- Technical Chair, International Conference on Sustainable Infrastructural Development, 2019 & 2020
- Technical Session Chair, International Conference on Science and Sustainable Development, 2019 & 2020
- Technical Session Chair, International Conference on Engineering for a Sustainable World, 2019 & 2020
- Application Evaluator, SDG 6 –Water and Sanitation theme, for selection of participants of 2019 UNLEASH Innovation Lab.
- Reviewer, Cogent Engineering (Taylor and Francis Group, Indexed in Scopus)
- Reviewer, Periodica Polytechnica - Civil Engineering (Indexed in Thomson Reuters’ 2017 JCR Science Edition)
- Reviewer, Chemical Data Collections (Indexed in Thomson Reuters’ 2017 JCR Science Edition)
- Reviewer, Journal of Materials and Environmental Science (Indexed in Scopus)
- Reviewer, 2nd Covenant University - International Conference on African Development Issues (CU-ICADI 2015)
- Reviewer, Proceedings of the Institution of Civil Engineers – Engineering Sustainability (Indexed in Thomson Reuters’ 2017 JCR Science Edition)
- Reviewer, International Journal of Sustainable Built Environment (Elsevier, Indexed in Scopus)

Reviewer, Water SA (Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer, Oriental Journal of Chemistry (Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for Construction and Building Materials (Elsevier, Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for Proceedings of the Institution of Civil Engineers – Construction Management (Indexed in Scopus)
 Reviewer for Soils and Foundations (Elsevier, Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for Results in Physics (Elsevier, Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for International Journal of Advanced and Applied Sciences (Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for International Journal of Environment and Waste Management (Indexed in Scopus)
 Reviewer for The Open Construction & Building Technology Journal
 Reviewer for International Journal of Environmental Science and Technology (Elsevier, Indexed in Thomson Reuters' 2017 JCR Science Edition)
 Reviewer for ABUAD Journal of Engineering Research and Technology AJERD

PROFESSIONAL APPOINTMENTS

Organization	Start Date	End Date	Current Position / Position Held
Covenant University, Ota, Ogun State	April 2009	To Date	Senior Lecturer
First Fossil Nigeria Ltd, Lagos	November 2008	February 2009	Project Planner/Scheduler
CASS Consulting Nigeria Ltd, Lagos	April 2008	October 2008	Structural Engineer
Federal Ministry of Transportation, Yola, Adamawa State	March 2007	February 2008	Supervising Engineer (NYSC)
Julius Berger Nigeria Plc, Apapa, Lagos	May 2005	October 2005	Engineering Intern
Ondo State Ministry of Works, Ondo, Ondo State	July 2004	September 2004	Engineering Intern

EDUCATION

Ph.D. Civil Engineering (Geotechnical & Environmental Engineering), Covenant University, Ota, Nigeria, 2017
 Split-Site PhD programme (Visiting Postgraduate Researcher), University of the West of England, Bristol, 2015–2016
 M.Eng. Civil Engineering (Geotechnical Engineering) (PhD grade), Covenant University, Ota, Nigeria, 2012
 B.Eng. Civil Engineering (First Class), Federal University of Technology, Akure, Nigeria, 2006

TEACHING AND SUPERVISION

Courses Taught at Undergraduate Level (B.Eng.)

1. CVE322: Soil Mechanics, 2013–present
2. CVE317: Civil Engineering Materials, 2011–2017, 2019- present
3. CVE314: Introductory Engineering Geology, 2014–2016
4. CVE318: Strength of Materials II, 2009–2014
5. GEC224: Strength of Materials I, Co-Lecturer, 2012
6. CVE322: Soil Mechanics Tutorials, 2010–2012
7. GEC410: Probability and Statistics, 2009–2010
8. CVE412: Foundation Engineering, 2018-present
9. BLD417: Foundation Engineering, 2018-present
10. CVE530: Geotechnical Engineering I, 2019
11. CVE542: Geotechnical Engineering II, 2019-present

Courses Taught at Postgraduate Level (M.Eng. and Ph.D.)

1. CVS811: Properties of Construction Materials, 2017-2018
2. CVG811: Advanced Soil Mechanics, 2018-present
3. CVG821: Advanced Foundation Engineering I, 2018-present
4. CVS911: Advanced Properties of Construction Materials, 2017-2018
5. CVG921: Advanced Foundation Engineering III, 2019

Successfully supervised 57 undergraduate Final Year Project students

Successfully Supervised a Master's degree (M.Eng) student

Co-supervising two (2) Ph.D students and one (1) MPhil/PhD student

Served as External Examiner and Internal Examiner of PhD Theses

GRANTS, AWARDS AND HONOURS

Co-Investigator, “Strategic planning of urban water reuse interventions for community resilience”, Frontiers of Engineering for Development Seed Funding of the Royal Academy of Engineering (RAEng), K. Behzadian, P. Phaik Eong, L. Choe Peng, K. Blay, A. Mehmood, I. I. Akinwumi, A. Moghayedi, V. Vassilev and J. Diazsolano, 2020

Co-Investigator, “The circularity of biological wastewater treatment”, Frontiers of Engineering for Development Seed Funding of the Royal Academy of Engineering (RAEng), L. Orsini, K. Akinola, L. C. Pasquale Rosa, K. D. Dearn and I. I. Akinwumi, 2019

Co-Investigator, “*WASH environments, sanitation policies and health outcomes during the first 2000 days of life*”, Frontiers of Development Seed Funding of the Royal Academy of Engineering (RAEng), with M. Luhrmann, A. Akinwumi, and I. I. Akinwumi, 2019.

Travel scholarship provided by the University of Oklahoma WaTER Center and its sponsors to attend the “University of Oklahoma WaTER Conference”, 16-18 September 2019, held at Norman, Oklahoma, United States.

Travel Scholarship provided by the Royal Academy of Engineering (RAEng), United Kingdom to attend the Frontiers of Development Symposium: *“Inclusivity and wellbeing in the first 2000 days of life”*, 11-13 March 2019, holding at Wellcome Genome Campus, Hinxton, Cambridge, United Kingdom.

Travel Scholarship provided by the Royal Academy of Engineering (RAEng), United Kingdom to attend the Frontiers of Development Symposium: *“Inclusive Prosperity and Wellbeing in the Context of Mass Displacement”*, 11-14 February 2018, held at Kigali, Rwanda.

SDG Talent, UNLEASH Innovation Lab 2017, Denmark, August 13-21, 2017 (Support by UNLEASH covering costs related to flights to and from Denmark, accommodation, food, curriculum, and facilitation for the entire program in Denmark).

Travel Scholarship provided by the University of Oklahoma WaTER Center and its sponsors to attend the *“University of Oklahoma WaTER Conference”*, 18-20 September 2017, held at Norman, Oklahoma, United States (US)

Volkswagen Foundation Best Poster Prize Award, *“Engineering and Life”* conference, October 2016, Hanover, Germany

Volkswagen Foundation Travel Grant to attend the *“Engineering and Life”* conference, 19-21 October 2016, held at Hanover, Germany

Commonwealth Scholarship Commission (CSC) in the United Kingdom, Award for 2015/2016 Split-Site PhD programme at the University of the West of England, Bristol, United Kingdom

Association of Civil Engineering Students (ACES), Best Lecturer in the Department of Civil Engineering, Covenant University, May 2014, Covenant University, Ota, Nigeria

College of Science and Technology Prize for 2012 Graduating Class Course Adviser, Covenant University, June 2012, Covenant University, Ota, Nigeria

College of Science and Technology Prize for Best Course Adviser in the Department of Civil Engineering, Covenant University, June 2010, Covenant University, Ota, Nigeria

University Prize for Best Graduating Student of the Department of Civil Engineering, Federal University of Technology Akure, November 2006, Federal University of Technology Akure, Akure, Nigeria

Ondo State Scholarship Award, Ondo State Scholarship Board of Ondo State Government, 2004, 2005 and 2006, Akure, Nigeria

Federal Government Scholarship Award, Federal Scholarship Board of Federal Government of Nigeria, 2002, Akure, Nigeria

COMMUNITY OR VOLUNTEER WORK

Application Evaluator, SDG 6 –Water and Sanitation theme, for selection of participants of 2019 UNLEASH Innovation Lab.

Guest Speaker, Independent Mindedness in Business – A Catalyst for High Productivity, Vocational Day 2013, Faith Academy, Canaanland, Ota, Ogun State, June 22, 2013.

Guest Speaker, Career in Engineering, Deeper Life Bible Church, Onibokun, Ota, Ogun State, February 10, 2013.

PROFESSIONAL AFFILIATIONS

Registered Engineer, Council for the Regulation of Engineering in Nigeria (COREN)

Corporate Member, Nigerian Society of Engineers (NSE)

Member, American Society of Civil Engineers (ASCE)

Affiliate, African Academy of Sciences (AAS)

Member, Nigerian Young Academy (NYA)

Financial Secretary, Nigerian Young Academy (NYA), 2019 - present

Associate Member, Universal Association of Mechanical and Aeronautical Engineers (UAMAE), Institute of Research Engineers and Doctors

Member, International Association of Engineers (IAENG)

Member, Nigerian Geotechnical Association (NGA)

Member, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)

UNIVERSITY, COLLEGE AND DEPARTMENTAL SERVICES

Coordinator, Research, Covenant University Centre for Research, Innovation and Discovery (CUCRID), Feb. 2021 – present

College Postgraduate Coordinator, College of Engineering, Jan. – Feb. 2021

Technical Chair, International Conference on Sustainable Infrastructural Development, 2019 – present

Postgraduate Coordinator, Department of Civil Engineering, 2018 – 2021

Examinations Officer, Department of Civil Engineering, 2016 – 2018

Departmental Website Administrator, Department of Civil Engineering, 2011–2017

Member, Deanage Publication Committee, College of Engineering, 2014–2017

Media Liaison Officer, Civil Engineering Department, 2015

Rapporteur, 2nd Covenant University - International Conference on African Development Issues (CU-ICADI 2015)

Panellist, Covenant University Scholastic Aptitude Screening (CUSAS), 2013–2015

Member, Registration Sub-committee, Student Resumption Committee, 2013–2015

Staff Adviser, Association of Civil Engineering Students (ACES), 2013–2016

Secretary, Departmental Meetings and Board of Studies, Department of Civil Engineering, 2013–2014

Departmental Coordinator, Student Industrial Work Experience Scheme (SIWES), Department of Civil Engineering, 2013–2015

Departmental Coordinator, Student Excursion, Department of Civil Engineering, 2013–2015

Secretary, Venue and Facility Management Sub-committee, 2012 Convocation Planning Committee

Assistant Examinations Officer, Department of Civil Engineering, 2011–2013

Member, Industrial Training Committee, Department of Civil Engineering, 2011–2013

Assistant Secretary, Departmental Meetings and Board of Studies, Department of Civil Engineering, 2010–2013

Course Adviser, Civil Engineering Students, 2009–2017

SELECTED CONSULTING ACTIVITIES

Winners' Chapel Mission's Lodge Development (Structural Engineering Consultant for Construction of nine Duplexes and four Blocks of 3-Bedroom Flats), March–July 2012

Primavera P6 Training Instructor, Modified Foundation Skill Training Programme, Nigerian National Petroleum Corporation (NNPC), January 2009

Branch Development, Intercontinental Bank Plc. Oyingbo, Ebute-Metta, Lagos, CASS Consulting Ltd., April–October 2008

Branch Development, Intercontinental Bank Plc. Numan, Adamawa State, CASS Consulting Ltd., April–October 2008

Branch Development, Intercontinental Bank Plc. Ashaka, Gombe State, CASS Consulting Ltd., April–October 2008

Branch Development, Intercontinental Bank Plc. Kura, Kano State, CASS Consulting Ltd., April–October 2008

Branch Development, Zenith Bank Plc. Warri, Delta State, CASS Consulting Ltd., April–October 2008

COURSES TAKEN / WORKSHOPS ATTENDED

“*Certificate of Short Course Participation, Hydrology and Remote Sensing*”, organised by the University of Oklahoma, Post-conference short course after the 2019 OU International WaTER Conference, Norman, Oklahoma, United States of America, 18th September 2019

“*Statistical Package for Social Sciences (SPSS) Course*”, organised by the Digital Bridge Institute as part of the Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI), and was undertaken at Covenant University, Ota, Nigeria, 18th – 22nd March 2019.

“*Research Proposal Writing Skills Course*”, facilitated by the African Women in Agricultural Research and Development (AWARD) and organised by Covenant University, Ota, Nigeria, 5th – 7th September 2018.

“*Certificate of Participation, Safe and Sustainable Well Drilling*”, organised by the University of Oklahoma, after the International WaTER Conference, Norman, Oklahoma, United States of America, 20th – 21st September 2017.

“*Certificate of Participation, Technical Field Methods*”, organised by the University of Oklahoma, after the International WaTER Conference, Norman, Oklahoma, United States of America, 20th September 2017.

“*Certificate in Leadership Development*” Two weeks intensive Course on Leadership Development for graduating students of the School of Postgraduate Studies, Covenant University; organised by the African Leadership Development Centre (ALDC), Covenant University, Ota, Nigeria, 3rd April 2017 to 13th April 2017.

“*Building a reputation as a researcher*” South West (of England) Graduate School Residential Course, held at Buckland Hall, Bwlch, Powys, Wales, UK, 28th June 2016 to 1st July 2016.

“*Introduction to Qualitative Data Analysis*” organised by the Graduate School, Research Business and Innovation (RBI), University of the West of England, Bristol, UK, 21st June 2016

“*Media Skills for Scientists: Gaining confidence and taking control when dealing with journalists*” (Online course) by the SciDev.Net (<http://scidevnet.teachable.com>), Courtesy introduction to SciDev.Net by the Commonwealth Scholarship Commission in the UK, 5th -8th June 2016

“*Science Communication Skills: Talk about your research in an engaging and accessible way*” organised by the Commonwealth Scholarship Commission in the UK and held at Woburn House, London, UK, 20th June 2016

“*Leadership in Innovation and Development*” organised by the Commonwealth Scholarship Commission in the UK and held at Aston Business School, Aston University, Birmingham, UK, 9th June 2016

“*Translating Science Research into Public Action*” organised by the Commonwealth Scholarship Commission in the UK and held at Liverpool School of Tropical Medicine, Liverpool, UK, 26th May 2016

First Aid Course – “*Level 2 Award in Emergency First Aid at Work*” (with certificate) Nuco Training Ltd., organised by the Students’ Union, University of the West of England, Bristol, UK, 23rd May 2016

“*Preparing to Teach for Postgraduate Researchers*” organised by the Graduate School, Research Business and Innovation (RBI), University of the West of England, Bristol, UK, 18th May 2016

“*The limits to confidentiality: Research data management, storage, protection, and sharing*” organised by the University Research Ethics Committee (UREC), University of the West of England, Bristol, UK, 11th May 2016

Academic Professional Development with VOX Coaching – “*Communicating Effectively through E-learning Tools: Excellence in On-Camera Teaching and Learning*” organised by the University of the West of England, Bristol, UK, April 2016

“*Educating the people, engaging the nations*” seminar organised by the Wales, Northern Ireland and South West Regional Networks of Commonwealth Scholars, Commonwealth Scholarship Commission, held at Cardiff University, Wales, UK, 8th April 2016

Academic Professional Development – “*Introduction to Technology Enhanced Active Learning (TEAL)*” organised by the University of the West of England, Bristol, UK, February 2016

“*Me, My Career and the REF*” organised by the UWE Researchers’ Forum, University of the West of England, Bristol, UK, February 2016

1st Covenant University Training and Workshop on Education Technology – “*The Place of ICT in Building a Robust Education in Nigeria Using Wireless Technology, Google Apps for Education (GAPE), E-Learning and Smart Classroom Technology*” organised by Covenant University, July 2015

Workshop for Young Researchers – “*Essentials of Quality Research Outputs*” organised by Nigeria Young Academy (NYA), October 2011

Subsea Awareness Course, organised by Society of Underwater Technology (SUT), Sub-Sahara African Branch,
Lagos, March 2010

Primavera P6 Basic Course 102, organised by First Fossil Nigeria Limited Lagos, in Partnership with Primavera
Systems Inc, November 2008

REFEREES

Available on Request