**COLLEGE OF POSTGRADUATE STUDIES**

**NNAMDI AZIKIWE UNIVERSITY**

**PROFILING OF POSTGRADUATE SUPERVISORS**

1. **FACULTY OF ENGINEERING**

**Department of Civil Engineering**

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| **S/No** | **Potential Supervisor** | **Rank** | **Research Expertise and Interests** | **Programme approved to supervise** | **10 key publications** | **Email** |
| 1. | Nwaiwu, Charles Malachy Okechukwu | Professor | Tropical soil behavior; design of landfill liners/covers and contaminant transport in liner systems; pavement geotechnics; waste reuse for geotechnical applications; material characterization for earth dams; characterization and treatment of erosion site/dispersive soils; green technology for geotechnical applications  | PGD, Masters and PhD | 1. **Nwaiwu, C.M.O**., Osinubi, K.J. and Afolayan, J.O. (2005) Statistical evaluation of the hydraulic conductivity of compacted lateritic soil. Geotechnical Testing Journal, ASTM. Vol. 28, No. 6, pp 586-595

 1. Osinubi, K.J. and **Nwaiwu, C.M.O.** (2006a) Compaction delay effects on the properties of lime-treated soil. *Journal of Materials in Civil Engineering*, ASCE, Vol. 18, No. 2, pp 250-258.
2. **Nwaiwu, C. M. O.** and Nuhu, I. (2006) Evaluation and prediction of the swelling characteristics of Nigerian black clays. *Geotechnical and Geological Engineering,* Vol. 24, pp 45-56
3. Osinubi, K.J. and **Nwaiwu, C.M.O.** (2006b) Design of compacted lateritic soil liners and covers. *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol. 132, No.2, pp 203-213
4. **Nwaiwu, C.M.O.**, Alkali, I.B.K. and Ahmed, U.A. (2006) Properties of ironstone lateritic gravels in relation to gravel road pavement construction. *Geotechnical and Geological Engineering,* Vol. 24, No. 2, pp 283-298.
5. Osinubi, K.J. and **Nwaiwu, C.M.O.** (2006c) Compatibility of compacted lateritic soils with municipal solid waste leachate *Proceedings of the 5th International Congress on Environmental Geotechnics,* **(5th ICEG)** June 26-30, 2006, Cardiff, Wales, United Kingdom, pp 608-615.
6. Osinubi, K.J. and **Nwaiwu, C.M.O.** (2006d) Sodium diffusion in compacted lateritic soil. *Proceedings of the 5th International Congress on Environmental Geotechnics,* **(5th ICEG)** June 26-30, 2006, Cardiff, Wales, United Kingdom, pp 1224-1231.
7. **Nwaiwu, C.M.O.,** Mshelia, S.H. and Durkwa, J.K. (2012) Compactive effort influence on properties of quarry dust-black cotton soil mixtures. *International Journal of Geotechnical Engineering*, Vol. 6, No. 1, pp 91 - 101
8. **Nwaiwu, C.M.O.** and Mezie, E.O. (2021) Prediction of maximum dry unit weight and optimum moisture content for coarse-grained lateritic soils. Soils and Rocks. 44 (1). e2021054120
9. **Nwaiwu, C.**M.O., Benjamin, B. and Ubani, O.U. (2022) Compaction and CBR behavior of cement-stabilised sand-black cotton soil mixtures. Advances in Transportation Geotechnics IV. Springer. pp 907-920
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