**COLLEGE OF POSTGRADUATE STUDIES**

**NNAMDI AZIKIWE UNIVERSITY**

**AWKA**

**PROFILING OF POSTGRADUATE SUPERVISORS**

**List of Potential Supervisors (According to Faculty & Department)**

1. **FACULTY OF ENGINEERING**
2. **Department of Agricultural & Bioresources Engineering**

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| **S/N** | **Potential Supervisor** | **Rank** | **Research Expertise and Interests** | **Programme Approved to Supervise** | **Ten Key Publications**  **in Specialty Area(s)** | **E-mail**  **(UNIZIK only)** |
| 1. | Orakwe, Louis Chukwuemeka    PhD - Water Resources & Environmental Engineering  MEng – Soil Conservation & Water Resources Engineering  BEng – Agricultural & Bioresources Engineering | Professor  Soil Conservation, Water Resources and Environmental Engineering | Ground/Surface Water Hydrology; Irrigation & Drainage Engineering; Soil Resource Conservation & Sustainability; Agricultural Waste Mgt & Environmental Sustainability;  AI in Water Resources Dev & Mgt for Agricultural purposes | PGD& Masters  or  PhD | **2021**  1. Ubah, J.I., **Orakwe, L.C.,** Okoye, M.N., and Ogbu, K.N. (2021): River Sediment Transport Modeling of Ele River Using Computational Fluid Dynamics Model of COMSOL Multiphysics Program. ASM Science Journal, Volume 16, July 2021  2. Ubah, J.I., **Orakwe, L.C.,** Awu, J.I., Chukwuma, E.C. and Okpala, C.D (2021): Modeling and Forecasting of Total Dissolved Solids for Irrigation Water Quality Assessment. Journal of Engineering and Applied Sciences, JEAS, Volume 18, Number 1, June 2021, 348 - 365  **2020**  3. Nwachukwu, C.P., **Orakwe, L.C.,** Nwajinka, C.O., Umembamalu, C.J and Anizoba, D.C. (2020): Effect of Tillage Methods and Soil Depths on Soil Chemical Properties in Southeastern Nigeria. Journal of Agricultural Engineering and Technology, JAET, Volume 25, Number 1, 2020, 79 - 94  4. Agbo, C. C. and **Orakwe, L. C** (2020): Physicochemical Effects of Orie Emene Abattoir Discharge on the Quality of Ekulu River and Nearby Wells. Journal of Engineering and Applied Sciences, Volume 17, Number 2, December 2020, 218 - 227  5. Okonkwo, C.C., Edoziuno, F.O., & **Orakwe, L.C.** (2020). Environmental Nano-remediation in Nigeria: A Review of Its Potentials. *Algerian Journal of Engineering and Technology*. 2020, X;X:000-000. <http://dx.doi.org/10>.  6. Chukwuma, E.C., Anizoba, D.C., **Orakwe, L.C.** and Amaefule, D.O. (2020): Delineating groundwater aquifer using geo-electrical data: A Case Study of Ogwashi-Asaba Formation in Anambra State of Nigeria. ASABE Paper No. 2000547. St. Joseph, MI.: ASABE. DOI: https://doi.org/10.13031/aim.202000547  7. Ifedi, O.V., **Orakwe L.C.**, Igwebudu, C.N. (2020): Aquifer Vulnerability to Pollution in Selected Parts of Oji River Town, Enugu State Using DRASTIC Model. Journal of Engineering and Applied Sciences, Volume 17, Number 1, June 2020, 152-167  8. Obasi A.A., Ogbu K.N., **Orakwe L.C.**, Ahaneku I.E. (2020): Rainfall-river discharge modelling for flood forecasting using Artificial Neural Network (ANN). Journal of Water and Land Development. No. 44 (I–III) p. 98–105. DOI:10.24425/jwld.2019.127050.  9. Anizoba, D. C, **Orakwe, L. C** and Chukwuma, E. C: (2020): Assessment of Groundwater Potential of Imo Formation (Ebenebe Sandstone) in Anambra State, Nigeria Using Geo-Electrical Sounding Data. Journal of Engineering and Applied Sciences, Volume 16, Number 1, January 2020, 43-51  **2019**  10.Nwachukwu, C.P, **L.C. Orakwe** and I.E. Ahaneku. (2019): Least Limiting Water Range of Sandy Loam in South-Eastern Nigeria Under Different Tillage Methods. Journal of Engineering and Applied Sciences, Volume 15, Number 1, December 2019, 109-117  11.Nwachukwu, C.P., **Orakwe**, **L.C.** and N.M. Okoye (2019): Development and Evaluation of a Drip Irrigation System in South Eastern Nigeria. Journal of Engineering Research and Reports, JERR, Vol 8(4): 1 - 9 December 06, 2019. Article Number: JERR. 51614. ISSN 2582-2926 | lc.orakwe@  unizik.edu.ng |
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