

CURRICULUM VITAE



A. PERSONAL DATA

Name: ONYELOWE, Kennedy Chibuzor

Date and Place of Birth: Dec.25, 1978, Umuohia, Ndiolumbe Autonomous Community, Isiala Ngwa South, Abia State, Nigeria

Nationality: Nigerian

Marital Status: Married

Number and Ages of Children: Three (3) Children; 16(f), 14(m) and 12(f) years respectively

Permanent Address: Umuohia Village, Off New Aba-Umuahia Road, Ndiolumbe Nvosi Autonomous Community, Isiala Ngwa South LGA, Abia State, Nigeria.

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Next of Kin: Mrs. Blessing Obiageri Onyelowe (Spouse)

Department/Unit: Civil Engineering

B. EDUCATIONAL BACKGROUND

1. University of the Peloponnese, Patras, Greece-**Doctoral Dissertation** (2022-2025), Civil Engineering (Structures)
2. University of Nigeria, Nsukka-**Doctor of Philosophy** (2012-2015), Civil Engineering (Geotechnical Engineering)
3. University of Nigeria, Nsukka-**Master of Engineering** (2009-2010), Civil Engineering (Soil Mechanics and Foundation Engineering)
4. Federal University of Technology, Owerri-**Bachelor of Engineering** (1998-2003), Civil Engineering (Structures)
5. Umuopara Secondary School, Umuahia-**GCE/WAEC** (1997)
6. Ovungwu Secondary School, Umuapu-**SSCE/WAEC** (1996)
7. Community School, Ndiolumbe-**FSLC** (1990)

C. MEMBERSHIP OF COMMITTEE/BODIES

1. Member, University Admissions Board, Michael Okpara University of Agriculture, Umudike, Nigeria, 1st June, 2020 to 31st May, 2022
2. Member, University Council Technical Committee, Selection of the 6th Vice Chancellor of Michael Okpara University of Agriculture, Umudike, Nigeria, 12-13th October, 2020
3. Secretary, Umudike Journal of Engineering and Technology (UJET) Indexing/Abstracting Committee, February 2019-Date
4. Chairman, Task Force on State of Infrastructure in College of Engineering and Engineering Technology, Michael Okpara University of Agriculture, Umudike, Nigeria. February 2019-Date
5. Member, Organizing Committee of 3rdGoGreen Summit 2018, Manila, Philippines
6. Member, CEET Anazodo Memorial Lecture (Transport Committee), 2016, Umudike
7. Member, CEET Research Committee, 2015-Date
8. Chairman, Department of Civil Engineering NUC/COREN Accreditation Sub-Committee, Library, 2010-Date

D. EDITORSHIP OF JOURNALS

1. **Editorial Board Member**, Sustainable Horizons (Elsevier Host); For Southern University of Technology, China; August 2022-Date
2. **Guest Associate Editor**, Frontiers in Built Environment-Geotechnical Engineering, Switzerland; July 2022-Date
3. **Review Editor**, Frontiers in Built Environment-Geotechnical Engineering, Switzerland; June 2022-Date
4. **Editor**, Umudike Journal of Engineering and Technology (UJET), August 2019-Date
5. **Assistant Business Manager**, Umudike Journal of Engineering and Technology (UJET), February 2018-2019
6. **Topic Editor** (28-7-2022- 28-12-2022); Constitutive solutions to geotechnical engineering problems, coedited by Kennedy Chibuzor Onyelowe; Denise-Penelope N. Kontoni; Ahmed M. Ebid; Frank Ikechukwu Aneke; Sujatha Evangelin Ramani, Frontiers in Built Environment-Geotechnical Engineering.
7. **Topic Editor** (25-7-2022- 18-12-2022); Sustainable geomaterials for green and innovative earthworks, coedited by Kennedy Chibuzor Onyelowe; Hashem Jahangir; Kaling Taki; Abdplhossein Naghizadeh; Jair de Jesús Arrieta Baldovino, Frontiers in Built Environment-Geotechnical Engineering.

E. MEMBERSHIP OF OUTSIDE BODIES

1. Member, Ike Ngwa Progressive Initiative

F. MEMBERSHIP OF PROFESSIONAL BODIES

1. 2020, Member International Association of Engineers (IAENG), Hong Kong, China (264566).
2. 2020, Member, International Association for Promoting Geoethics (IAPG), Rome, Italy.
3. 2019, Member, Nigerian Institution of Professional Engineers and Scientists, NIPES.
4. 2016, Member, International Society of Soil Mechanics and Geotechnical Engineering. ISSMGE.
5. 2015, Member, International Geosynthetics Society, IGS (11696).
6. 2011, Member, The British Institution of Structural Engineers, BStructE
7. 2009, Council for the Regulation of Engineering Practice in Nigeria, COREN (17, 203).
8. 2007, Member, Nigeria Section, American Society of Civil Engineers, ASCE (455245).

G. WORK EXPERIENCE

1. December 2022-Date: **Research Fellow**, Department of Civil Engineering, School of Engineering, University of the Peloponnese, Patras, Greece
2. October 2021-Date: **Associate Professor**, Michael Okpara University of Agriculture, Umudike, Nigeria
3. June 26, 2020-Date: **External Technical Reviewer**, Research and Innovations Fund, Makerere University, Kampala, Uganda
4. March 16, 2020-Date: **Adjunct Senior Lecturer**, Department of Mechanical and Civil Engineering, School of Engineering and Applied Sciences, Kampala International University, Kampala, Uganda.
5. January 2019-Date: **Adjunct Senior Lecturer (CONUASS 5)**, Department of Civil Engineering, Faculty of Engineering and Technology, Alex Ekwueme Federal University Ndufu Alike Ikwo.
6. Oct. 2018 – 2021: **Senior Lecturer (CONUASS 5)**, Department of Civil Engineering, College of Engineering, Michael Okpara University of Agriculture, Umudike, Nigeria
7. Oct. 2015- Date: **Lecturer I (CONUASS 4)**, Department of Civil Engineering, College of Engineering, Michael Okpara University of Agriculture, Umudike
8. April 2010- Oct. 2015: **Lecturer II (CONUASS 3)**, Department of Civil Engineering, College of Engineering, Michael Okpara University of Agriculture, Umudike
9. Oct. 2007- April, 2010: **Graduate Assistant (CONUASS 1)**, Department of Civil Engineering, College of Engineering, Michael Okpara University of Agriculture, Umudike

H. INDUSTRY/CONSULTING EXPERIENCE

1. 2007-Date, Consulting Engineer, Termites Hill Consult, Amuwo Odofin, Lagos, Lagos State.
2. 2014-Date, Consulting Engineer, Project Hub Nigeria Limited, Umuahia, Abia State, Nigeria.

I. ADMINISTRATIVE EXPERIENCE

1. January 2022-Date, **Deputy Dean**, College of Engineering & Engineering Technology, Michael Okpara University of Agriculture, Umudike, Nigeria
2. March 28-April 1, 2022, **Acting Dean**, College of Engineering & Engineering Technology, Michael Okpara University of Agriculture, Umudike, Nigeria
3. February 23-25, 2022, **Acting Dean**, College of Engineering & Engineering Technology, Michael Okpara University of Agriculture, Umudike, Nigeria

J. RESEARCH INTERESTS

Computational Soil Mechanics, Structures Concrete, Soft Computing/Artificial Intelligence; Sustainable Construction Materials, Geotechnical Engineering, Unsaturated Soils, Modelling and Optimization, Nanomaterials Technology, Environmental Geotechnics, Computational Geotechnics, Transportation Geotechnics, Soil Erosion, Experimental Geotechnics, Solid Waste and Geomaterials

K. TEACHING AND RESEARCH EXPERIENCE

1. Taught and successfully supervised undergraduate students in the Department of Civil Engineering, Michael Okpara University of Agriculture, Umudike since 2007
2. Taught and successfully supervised postgraduate and PhD (Doctoral Dissertation) students in the Department of Civil Engineering, Michael Okpara University of Agriculture, Umudike, Nigeria and the Kampala International University, Kampala, Uganda since 2015.
3. Successfully carried out researches on the synthesis of nanostructured ash and materials from solid waste for use as admixture in soil stabilization and filler in concrete production and the research is ongoing to explore new grounds.
4. Successfully carried out researches on the synthesis of solid waste based geopolymer cements for use as admixture and supplementary cementing material in soil stabilization and concrete production and the research is ongoing to explore new grounds also.
5. Successfully carried out PhD research on “modeling the effect of contact and seepage forces on the failure of water boreholes” between 2012 and 2015
6. Successfully carried out MEng research on “the application of variational calculus on the failure of foundations on slope” between 2009 and 2010.
7. Successfully published research results in reputable local and international journals

8. For over twelve (15) years, I have taught basic engineering courses like Soil Mechanics, Engineering Surveying, Engineering Geology, etc. and core undergraduate courses successfully
9. Currently teaching and supervising undergraduate and postgraduate students at the Michael Okpara University of Agriculture, Umudike, the Alex Ekwueme Federal University, Ndufu Alike Ikwo, Abakiliki and other universities across Africa and Asia.

L. RESEARCH COLLABORATION

1. Principal Investigator, Research Group of Geotechnical Engineering, Construction Materials and Sustainability, Hanoi University of Mining and Geology, Hanoi, Vietnam. Attracted research grant from the Vietnamese Ministry of Education and Training, Grant No. MOET /2019 with project number B2019-MDA-08.
2. Lead Researcher, Geomechanics, Geotechnics & Geomaterials Lab, Department of Civil Engineering, Michael Okpara University of Agriculture, Umudike, Nigeria.
3. Contributor, Geotechnical and Geoenvironmental Research Group, College of Agriculture, Engineering and Science, Howard College Campus, University of KwaZulu-Natal, Durban, Republic of South Africa.

M. PUBLICATIONS

-Links; [ORCID](#), [Scopus](#), [Google Scholar](#), [Web of Science](#) & [ResearchGate](#)

-Scholarly Journals

1. **Onyelowe, K. C.**, Ebid, A. M., Mahdi, H. A., Riofrio, A., Rezazadeh Eidgahee, D., Baykara, H., Soleymani, A., Kontoni, A.-P. N., Shakeri, J., & Jahangir, H. (2022). Optimal Compressive Strength of RHA Ultra-High-Performance Lightweight Concrete (UHPLC) and Its Environmental Performance Using Life Cycle Assessment. *Civil Engineering Journal*, Vol. 8(11); 2391-2410. <http://dx.doi.org/10.28991/CEJ-2022-08-11-03>
2. **Onyelowe, K. C.**, Mojtahedi, F. F., Ebid, A. M., Rezaei, A., Osinubi, K. J., Eberemu, A. O., Salahudeen, B., Gadzama, E. W., Rezazadeh, D., Jahangir, H., Yohanna, P., Onyia, M. E., Jalal, F. E., Iqbal, M., Ikpa, C., Obianyo, I. I., & Rehman, Z. U. (2022). Selected AI optimization techniques and applications in geotechnical engineering, *Cogent Engineering*. <https://doi.org/10.1080/23311916.2022.2153419>
3. **Onyelowe, K.C.**, Jayabalan, J., Ebid, A.M., Samui, P., Singh, R.P., Soleymani, A., & Jahangir, H. (2022). Evaluation of the Compressive Strength of CFRP-Wrapped Circular Concrete Columns Using Artificial Intelligence Techniques. *Designs* 2022, 6, 112. <https://doi.org/10.3390/designs6060112>
4. Ebid, A. M. & **Onyelowe, K. C.** (2022). Behavior of strip footing rested on undrained clay using consistency limits-based constitutive law. *Heliyon*, 8 (11): 1-6. <https://doi.org/10.1016/j.heliyon.2022.e11520>

5. Ebid, A.M., **Onyelowe, K.C.**, & Salah, M. (2022). Load-Settlement Curve and Subgrade Reaction of Strip Footing on Bi-Layered Soil Using Constitutive FEM-AI Coupled Techniques. *Designs* 2022, 6, 104. <https://doi.org/10.3390/designs6060104>
6. Gnananandarao, T., **Onyelowe, K. C.**, Khatri, V., & Dutta, R. K. (2022). Performance of T-shaped skirted footings resting on sand. *International Journal of Mining and Geo-Engineering*, (), -. <https://doi.org/10.22059/ijmge.2022.340418.594955>
7. Abdel-Kader, M.Y., Ebid, A.M., **Onyelowe, K.C.**, Mahdi, I.M., & Abdel-Rasheed, I. (2022). (AI) in Infrastructure Projects—Gap Study. *Infrastructures* 2022, 7, 137. <https://doi.org/10.3390/infrastructures7100137>
8. **Onyelowe, K. C.**, Ebid, A. M., Riofrio, A., Soleymani, A., Baykara, H., Kontoni, D.-P. N., Mahdi, H. A. & Jahangir, H. (2022). Global warming potential-based life cycle assessment and optimization of the compressive strength of fly ash-silica fume concrete; environmental impact consideration. *Frontiers in Built Environment*, 8: 992552. <https://doi.org/10.3389/fbuil.2022.992552>
9. Phuc-Lam, D., Bui-Van, D., **Onyelowe, K. C.**, Ebid, A. M., Le, V. D., & Ahaneku, I. E. (2022). Effect of metakaolin on the mechanical properties of lateritic soil. *Geotechnical Research*. <https://doi.org/10.1680/jgere.22.00046>
10. **Onyelowe, K. C.**, Gnananandarao, T., Ebid, A. M., Mahdi, H. A., Razzaghian-Ghadikolaee, M., & Al-Ajamee, M. (2022). Evaluating the Compressive Strength of Recycled Aggregate Concrete Using Novel Artificial Neural Network. *Civil Engineering Journal*, Vol. 8(8):1679-1694. <http://dx.doi.org/10.28991/CEJ-2022-08-08-011>
11. Jayabalan, J., Dominic, M., Ebid, A.M., Soleymani, A., **Onyelowe, K.C.**, & Jahangir, H. (2022). Estimating the Buckling Load of Steel Plates with Center Cut-Outs by ANN, GEP and EPR Techniques. *Designs* 2022, 6, 84. <https://doi.org/10.3390/designs6050084>
12. Kontoni, D.-P.N., **Onyelowe, K.C.**, Ebid, A.M., Jahangir, H., Rezazadeh Eidgahee, D., Soleymani, A., & Ikpa, C. (2022). Gene Expression Programming (GEP) Modelling of Sustainable Building Materials including Mineral Admixtures for Novel Solutions. *Mining*, 2 (4), 629–653. <https://doi.org/10.3390/mining2040034>
13. **K. C. Onyelowe**, J. Jayabalan, A. M. Ebid, P. Samui, A. Soleymani, H. Jahangir, R. P. Singh & H. A. Mahdi. (2022). Modeling the confined compressive strength of CFRP-jacketed noncircular concrete columns using artificial intelligence techniques. *Cogent Engineering*, 9(1). <https://doi.org/10.1080/23311916.2022.2122156>
14. **K. C Onyelowe**, E. R. Sujatha, F. I. Aneke & A. M. Ebid. (2022). Solving geophysical flow problems in Luxembourg; SPH constitutive review. *Cogent Engineering*, 9(1). <https://doi.org/10.1080/23311916.2022.2122158>
15. **Onyelowe, K. C.**, Mojtahedi, F. F., Azizi, S., Mahdi, H. A., Sujatha, E. R., Ebid, A. M., Darzi, A. G., & Aneke, F. I. (2022). Innovative Overview of SWRC Application in

Modeling Geotechnical Engineering Problems. Designs 2022, 6, 69.
<https://doi.org/10.3390/designs6050069>

16. Aneke, F. I., **Onyelowe, K. C.**, Ebid, A. M. et al. (2022). Predictive models of swelling stress—a comparative study between BP- and GRG-ANN. *Arabian Journal of Geosciences* 15, 1438 (2022). <https://doi.org/10.1007/s12517-022-10706-1>
17. Aneke, F. I. & **Onyelowe, K. C.** (2022). Applications of preloading pressure on expansive subgrade treated with nano-geopolymer binder for cyclic crack resistance. *Nanotechnol. Environ. Eng.* 7, 593–607 (2022). <https://doi.org/10.1007/s41204-022-00250-4>
18. **Onyelowe, K. C.**, Ebid, A. M., Riofrio, A., Baykara, H., Soleymani, A., Mahdi, H. A., Jahangir, H., & Ibe, K. (2022). Multi-objective prediction of the hydro-mechanical properties and environmental impact appraisals of self-healing concrete for sustainable structures. *Sustainability*, 14(15). <https://doi.org/10.3390/su14159573>
19. Aneke, F. I. & **Onyelowe, K. C.** (2022). Improving resilient modulus and cyclic crack restriction of preloaded expansive subgrade treated with nano-geopolymer binder. *Arab J Geosci* 15, 1340 (2022). <https://doi.org/10.1007/s12517-022-10629-x>
20. Alisha, S. K., Dumpa, V., Sreenivasulu, V., **Onyelowe, K. C.**, & Ebid, A. M., (2022). Red mud nano-fines potential for improving the geotechnical properties of ameliorated reconstituted black cotton soil. *Multiscale and Multidisciplinary Modeling, Experiments and Design*. <https://doi.org/10.1007/s41939-022-00127-8>
21. **Onyelowe, K. C.**, Ebid, A. M., Baldovino, J. J. A., & Onyia, M. E. (2022). Hydraulic conductivity predictive model of RHA-ameliorated laterite for solving landfill liner leachate, soil and water contamination and carbon emission problems. *International Journal of Low-Carbon Technologies*. <https://doi.org/10.1093/ijlct/ctac077>
22. Ebid, A. M., El-Aghoury, M. A. & Onyelowe, K. C. (2022). Estimating the Optimum Weight for Latticed Power-Transmission Towers Using Different (AI) Techniques. *Designs* 2022, 6, 62. <https://doi.org/10.3390/designs6040062>
23. **Onyelowe, K. C.**, Kontoni, D.-P. N., Ebid, A. M., Dabbaghi, F., Soleymani, A., Jahangir, H., & Nehdi, M. L., (2022). Multi-objective optimization of sustainable concrete containing fly ash based on environmental and mechanical considerations, *Buildings*, 12, no. 7: 948. <https://doi.org/10.3390/buildings12070948>
24. **Onyelowe, K. C.** & Ebid, A. M. (2022). Compaction energy-hammer fall rate (E-t) constitutive model by Brachistochrone technique. *Computational and Applied Mathematics*, 41(5), 224. <https://doi.org/10.1007/s40314-022-01937-9>

25. **Onyelowe, K. C.**, Ebid, A. M., Egwu, U., Onyia, M. E., Onah, H. N., Nwobia, L. I., Onwughara, I., & Firoozi, A. A. (2022). Erodibility of Nanocomposite-Improved Unsaturated Soil Using Genetic Programming, Artificial Neural Networks, and Evolutionary Polynomial Regression Techniques. *Sustainability* 2022, 14 (12), 7403. <https://doi.org/10.3390/su14127403>
26. Ebid, A. M., **Onyelowe, K. C.**, & M. Salah (2022). Estimation of bearing capacity of strip footing rested on bilayered soil profile using FEM-AI-coupled techniques. *Advances in Civil Engineering*, vol. 2022, 11 pages. <https://doi.org/10.1155/2022/8047559>
27. **Onyelowe, K.**, Aneke, F., Onyia, M., Ebid, A., & Usungedo, T. (2022). AI (ANN, GP, and EPR)-based predictive models of bulk density, linear-volumetric shrinkage & desiccation cracking of HSDA-treated black cotton soil for sustainable subgrade. *Geomechanics and Geoengineering; an International Journal*. <https://doi.org/10.1080/17486025.2022.2090621>
28. **Onyelowe, K. C.**, Ebid, A. M., Onyia, M. E. & Amanamba, E. C. (2022). Estimating the swelling potential of non-carbon-based binder (NCBB)-treated clayey soil for sustainable green subgrade using AI (GP, ANN and EPR) techniques. *International Journal of Low-Carbon Technologies*, vol. 17, pp. 807-815. <https://doi.org/10.1093/ijlct/ctac058>
29. Ihemeje, J., **Onyelowe, K. C.** and Ebid, A. M. (2022). Modeling Traffic Noise Intensity and Comparative Validation Analysis of ARIMA and MLR Models. *Umudike Journal of Engineering and Technology*, 8(1), pp. 49-73. DOI: [10.33922/j.ujet_v8i1_7](https://doi.org/10.33922/j.ujet_v8i1_7)
30. **Onyelowe, K. C.**, Aneke, F. I., Ebid, A. M. & Nwobia, L. I. (2022). Different AI predictive models for pavement subgrade stiffness and resilient deformation of geopolymer cement-treated lateritic soil with ordinary cement addition. *International Journal of Pavement Research and Technology*. <https://doi.org/10.1007/s42947-022-00185-8>
31. Shakeri, J., Amini Khoshalan, H., Dehghani, H., Bascompta, M., **Onyelowe, K. C.** (2022). Developing New Models for Flyrock Distance Assessment in Open-Pit Mines. *Journal of Mining & Environment*, 1-15. <https://doi.org/10.22044/jme.2022.11805.2170>
32. **Onyelowe, K. C.**, Tome, S., Ebid, A. M., Usungedo, T., Bui Van, D., Etim, R. K., Onuoha, I. C. & Attah, I. C. (2022). Effect of desiccation on ashcrete (HSDA)-treated soft soil used as flexible pavement foundation; zero carbon stabilizer approach. *International Journal of Low-Carbon Technologies*, Vol. 17, pp. 563-570. <https://doi.org/10.1093/ijlct/ctac042>

33. Aneke, F. I. & **Onyelowe, K. C. (2022)**. Environmental sustainability of fly ash and recycled crushed glass blends: an alternative to natural clay for masonry bricks production. *International Journal of Applied Science and Engineering*, 19(1), pp. 1-18. [https://doi.org/10.6703/IJASE.202203_19\(1\).007](https://doi.org/10.6703/IJASE.202203_19(1).007)
34. **Onyelowe, K. C.**, Shakeri, J., Amini-Khoshalan, H., Usungedo, T. F., & Alimoradi-Jazi, M. (2022). Computational Modeling of Desiccation Properties (CW, LS, and VS) of Waste-Based Activated Ash-Treated Black Cotton Soil for Sustainable Subgrade Using Artificial Neural Network, Gray-Wolf, and Moth-Flame Optimization Techniques. *Advances in Materials Science and Engineering* Volume 2022, <https://doi.org/10.1155/2022/4602064>
35. El-Aghoury, M. A., Ebid, A. M., & **Onyelowe, K. C. (2022)**. Optimum Design of Fully Composite, Unstiffened, Built-Up, Hybrid Steel Girder Using GRG, NLR, and ANN Techniques. *Journal of Engineering* Volume 2022, Article ID 7439828, 25 pages <https://doi.org/10.1155/2022/7439828>
36. **Onyelowe, K. C.**, Eidgahee-Rezazadeh, D., Jahangir, H., Aneke, F. I., & Nwobia, L. I. (2022). Forecasting Shear Parameters, and Sensitivity and Error Analyses of Treated Subgrade Soil, Transportation Infrastructure Geotechnology. <https://doi.org/10.1007/s40515-022-00225-7>
37. Mahdi, H. A., Ebid, A. M., **Onyelowe, K. C.** & Nwobia, L. I. (2022). Predicting the behaviour of laterally loaded flexible free head pile in layered soil using different AI (EPR, ANN and GP) techniques. *Multiscale and Multidisciplinary Modeling, Experiments and Design*. <https://doi.org/10.1007/s41939-021-00114-5>
38. **Onyelowe, K. C.**, Gnananandarao, T., & Ebid, A. M. (2022). Estimation of the erodibility of treated unsaturated lateritic soil using support vector machine-polynomial and -radial basis function and random forest regression techniques, *Cleaner Materials*, Volume 3, 2022, 100039, <https://doi.org/10.1016/j.clema.2021.100039>.
39. Attah, I. C., Etim, R. K., Ekpo, D. U., & **Onyelowe, K. C. (2021)**. Understanding the impacts of binary additives on mechanical and morphological response of ameliorated soil for road infrastructures, *Journal of King Saud University - Engineering Sciences* (2021). <https://doi.org/10.1016/j.jksues.2021.12.001>
40. Ali, S., Khan, S., Jamal, A., Horoub, M. M., Iqbal, M., and **Onyelowe, K. C. (2021)**. Transverse Response of an Axially Moving Beam with Intermediate Viscoelastic Support. *Mathematical Problems in Engineering*, Volume 2021. <https://doi.org/10.1155/2021/2218832>

41. **Onyelowe, K. C.**, Onyia, M. E., Aneke, F. I., Bui-Van, D., and Rollins, K. M. (2021). Assessment of compressive strength, durability, and erodibility of quarry dust-based geopolymer cement stabilized expansive soil. Multiscale and Multidisciplinary Modeling, Experiments and Design. <https://doi.org/10.1007/s41939-021-00104-7>
42. **Onyelowe, K. C.**, Jalal, F. E., Iqbal, M., Rehman, Z. U., and Ibe, K. (2021). Intelligent modeling of unconfined compressive strength (UCS) of hybrid cement-modified unsaturated soil with nanostructured quarry fines inclusion. Innovative Infrastructure Solutions. <https://doi.org/10.1007/s41062-021-00682-y>
43. **Onyelowe, K. C.**, Onuoha, I. C., and Onyia, M. (2021). Waste combustion and lime induced calcite precipitation for problematic soils stabilization; an applied review. Materials Today: Proceedings, Vol. 56 (P4), pp. 1827-1832. 2021. <https://doi.org/10.1016/j.matpr.2021.11.027>
44. A. M. Ebid, **K. C. Onyelowe**, and E. E. Arinze (2021). Estimating the Ultimate Bearing Capacity for Strip Footing Near and within Slopes Using AI (GP, ANN, and EPR) Techniques. Journal of Engineering, Volume 2021, Article ID 3267018, 11 pages. <https://doi.org/10.1155/2021/3267018>
45. Ihemeje, J., and **Onyelowe, K. C.** (2021). State-of-the-art review on the assessment and modelling of traffic noise intensity on roadside dwellers: The Port Harcourt, Nigeria case, Cleaner Engineering and Technology, Vol. 5 (2021), doi: <https://doi.org/10.1016/j.clet.2021.100328>
46. Etim, R. K., Ekpo, D. U., Attah, I. C., and **Onyelowe, K. C.** (2021). Effect of micro sized quarry dust particle on the compaction and strength properties of cement stabilized lateritic soil. Cleaner Materials 2. <https://doi.org/10.1016/j.clema.2021.100023>
47. Jalal, F. E., Jamhiri, B., Naseem, A., Hussain, M., Iqbal, M., and **Onyelowe, K.** (2021). Isolated Effect and Sensitivity of Agricultural and Industrial Waste Ca-Based Stabilizer Materials (CSMs) in Evaluating Swell Shrink Nature of Palygorskite-Rich Clays. Advances in Civil Engineering, Volume 2021, Article ID 7752007, 17 pages. <https://doi.org/10.1155/2021/7752007>
48. **Onyelowe, K. C.** and Usungedo, T. (2021). Microstructure, 3-chemical moduli (3CM) and micro-spectral analyses of HSDA-treated black cotton soil for sustainable subgrade construction, Materials Today: Proceedings, Vol. 56 (P4), pp. 1668-1674. <https://doi.org/10.1016/j.matpr.2021.10.211>.
49. **Onyelowe, K. C.**, Jalal, F. E., Onyia, M. E., Onuoha, I. C., Alaneme, G. U., and Ikpa, C. (2021). Artificial Intelligence Prediction Model for Swelling Potential of Soil and

Quicklime Activated Rice Husk Ash Blend for Sustainable Construction. Jurnal Kejuruteraan 33(4) 2021: 845-852 [https://doi.org/10.17576/jkukm-2021-33\(4\)-07](https://doi.org/10.17576/jkukm-2021-33(4)-07)

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-Conference Proceedings

1. Udeala, R. C., **Onyelowe, K. C.**, Uranta, J. D. C., Keke, E. O, and Alaneme, G. (2021). ANFIS model of the UCS of modified soil for construction purposes; In: Laryea, S. and Essah, E. (Eds) Procs West Africa Built Environment Research (WABER) Conference, 9-11 August 2021, Accra, Ghana, 163-176.

2. Aju, D. E. and **Onyelowe, K. C. (2021)**. Modelling optimal unconfined compressive strength of geotextile reinforced soil for flexible foundation construction; In: Laryea, S. and Essah, E. (Eds) Procs West Africa Built Environment Research (WABER) Conference, 9-11 August 2021, Accra, Ghana, 763-777.
3. Amanamba, E. C. and **Onyelowe, K. C. (2021)**. Suction of clayey soil treated with quarry dust base geopolymer cement for sustainable pavement subgrade construction; In: Laryea, S. and Essah, E. (Eds) Procs West Africa Built Environment Research (WABER) Conference, 9-11 August 2021, Accra, Ghana, 925-932.
4. **K. C. Onyelowe**, Duc Bui Van, Talal Amhadi, Eze Onukwugha, Richard C. Udeala, Charles N. Ezugwu, Henry Ugwuanyi, Uzoma Iro, A. Bunyamin Salahudeen, Felix Sosa, Julian C. Aririguzo, Clifford Igboayaka, Francis Orji, Obiekwe Ubachukwu, Chidozie Ikpa & Benjamin Ugorji (2019). Gradation and Microanalysis of RHA Re-Engineered Soft Soil for Eco-Friendly, Eco-Efficient and Sustainable Clay Liner Geomaterials. 2nd International Engineering Conference, IECON, 2-4th September, 2019, Umudike, Nigeria.
5. Duc Bui Van, **K.C. Onyelowe**, Phi Van Dang, Dinh Phuc Hoang, Nu Nguyen Thi, and Wei Wu (2018). Strength Development of Lateritic Soil Stabilized by Local Nanostructured Ashes, Proceedings of China-Europe Conference On Geotechnical Engineering, SSGG, pp. 782–786, 2018. https://doi.org/10.1007/978-3-319-97112-4_175
6. **Onyelowe, K. C. (2017)**. Nanosized Waste Paper Ash Stabilization of Lateritic Soil for Pavement Construction Purposes. *Proceedings of the 2017 Annual Conference on Engineering for Self-Reliance of the School of Engineering & Engineering Technology (SEET), The Federal University of Technology, Akure, Nigeria, 11-13 July, 2017.*
7. **Onyelowe, K. C.** and Maduabuchi, M. N. (2017). Renewable Energy Application Successes in Environmental Geotechnics. *Proceedings of the 18th International Conference and 38th AGM of the Nigerian Institute of Agricultural Engineers (NIAE), Umudike, 3rd to 5th of October, 2017.* Pp. 32-39
8. **Onyelowe KC and Maduabuchi MN (2017)**. Gully Erosion at Amuzukwu-Ibeku, Umuahia, Abia State; a review. *Proceedings of the 18th International Conference and 38th AGM of the Nigerian Institute of Agricultural Engineers (NIAE), Umudike, 3rd to 5th of October, 2017.* Pp. 483-485.
9. Ubachukwu OA and **Onyelowe KC (2017)**. Mathematical Formulation of Strip Footing as a Beam on Winkler Foundation: A Comparative Study. *Proceedings of the 18th International Conference and 38th AGM of the Nigerian Institute of Agricultural Engineers (NIAE), Umudike, 3rd to 5th of October, 2017.* Pp. 331-338.
10. D. Bui Van, A. Chinkulkijniwat, S. Horpibulsuk, S. Yubonchit, A. Udomchai, I. Limrat, A. Le Tuan, H. Pham Tien, and **Onyelowe Kennedy (2017)**. The Flow Response of Reinforced Earth Structures Utilized Fine-Grained Poorly Draining Materials as Backfill. Springer Nature Singapore Pte Ltd. 2018 H. Tran-Nguyen et al. (eds.), Proceedings of the 4th Congrès

International de Géotechnique - Ouvrages -Structures, Lecture Notes in Civil Engineering 8,
https://doi.org/10.1007/978-981-10-6713-6_59. Pp. 598-609.

-Book Chapters

1. **K. C. Onyelowe**, A. B. Salahudeen, A. O. Eberemu, C. N. Ezugwu, T. Amhadi & G. Alaneme (2020). Oxides of Carbon Entrapment for Environmentally Friendly Geomaterials Ash Derivation. In book: Recent Thoughts in Geoenvironmental Engineering, Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE), pp. 58-67. https://doi.org/10.1007/978-3-030-34199-2_4
2. **K. C. Onyelowe**, A. B. Salahudeen, A. O. Eberemu, C. N. Ezugwu, T. Amhadi, G. Alaneme & F. Sosa (2020). Utilization of Solid Waste Derivative Materials in Soft Soils Re-engineering. In book: Recent Thoughts in Geoenvironmental Engineering, Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE), pp. 49-57. https://doi.org/10.1007/978-3-030-34199-2_3
3. **K. C. Onyelowe**, T. Amhadi, C. N. Ezugwu, E. Onukwughu, H. Ugwuanyi, I. Jideoffor, C. Ikpa, U. Iro & B. Ugorji (2020). Cemented Lateritic Soil as Base Material Improvement Using Compression. In book: Innovative Infrastructure Solutions using Geosynthetics, Proceedings of the 3rd GeoMEast International Congress and Exhibition, Egypt 2019 on Sustainable Civil Infrastructures – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE), pp. 58-67. https://doi.org/10.1007/978-3-030-34242-5_4
4. **K. C. Onyelowe & D. Bui Van** (2019) Geosynthetics, an Emerging Engineered Technology in Soil Stabilization in the Third World Countries for Sustainable Development: Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE). In book: Sustainability Issues in Environmental Geotechnics. https://doi.org/10.1007/978-3-030-01929-7_3
5. **Onyelowe, K.C.**, Ubachukwu, O.A., Ikpemo, O.C. and Okafor, F.O. (2017). Assessment of Granular Soil Failure at the Water Borehole Depth in South Eastern Nigeria by Discrete and Finite Element Methods. In: Shehata H., Rashed Y. (eds) *Numerical Analysis of Nonlinear Coupled Problems. Proceedings of the 1st GeoMEast July 15-19, 2017 International Congress and Exhibition, Egypt “Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology, Springer, pp. 195-202.* https://doi.org/10.1007/978-3-319-61905-7_17

-Books

1. **Onyelowe, K. C.**, Aririguzo, J. C. & Ezugwu, C. N. (2019). Sustainable Soils Re-Engineering. Partridge Publishing, Singapore. ISBN 9781543750997

-Journal Articles Peer Reviewed

1. Evaluation of Natural Aggregate Found in Zaria (Sept.2012)-Nigerian Journal of Technology (NIJOTECH).
2. An Investigation into the Use of Groundnut Shell as Fine Aggregate Replacement. (Sept.2012). - NIJOTECH.
3. Characterization of Geotechnical Properties of Lateritic Soil – Bentonite Mixtures Relevant to Their Use as Barrier in Engineered Waste Landfills, (Nov.2012). – NIJOTECH
4. Geotechnical Properties of Used Engine Oil Contaminated Laterites, (Nov. 2012)-NIJOTECH.
5. Assessment of Bagasse Ash Effect on The California Bearing Ratio of Used Oil Contaminated Lateritic Soils (August 2014)- NIJOTECH
6. Effect of Used Oil Contamination and Bagasse Ash on Some Geotechnical Properties of Northern Nigerian Lateritic Soil (August 2014) - NIJOTECH.
7. Partial Replacement of Cement with Bagasse Ash as Filler in Hot Mix Asphalt (April 2015) - NIJOTECH.
8. Modification of Asphalt with Crumb Rubber Using Wet Process (April, 2015)-NIJOTECH.
9. Classification and Potentials of Michael Okpara University of Agriculture Umudike Soils (September, 2015) –Umudike Journal of Engineering and Technology (UJET).
10. Unconfined Compressive Strength Test of a Fly Ash Stabilized Sandy Soil (September, 2015) - UJET.
11. Economic Binder Proportioning with Cement Replacement by Lime/Fly Ash (October, 2015) - NIJOTECH.
12. Analysis of the Status of Water Boreholes in South Eastern Nigeria (November, 2015) - NIJOTECH.
13. Grain Size and Heavy Mineral Analysis of Two Boreholes in Recent to Miocene Aquifer in Benin Formation (FM) (June, 2016) – NIJOTECH.
14. Effect of Banana Leaf Ash on Cement-Modified Lateritic Soil (September, 2016) - Journal of Civil Engineering and Construction Technology (JCECT).
15. Influence of Coarse Aggregate Size and Superplasticizer on the Compressive Strength and Drying Shrinkage of Laterized Concrete (October, 2016) - Journal of Civil Engineering and Construction Technology (JCECT).
16. Quality of seepage water in soil treated with alkali-activated cement at room Temperature (May, 2017) - Environmental Geotechnics, Institution of Civil Engineering, UK.
17. Harnessing the Potential Benefits from Waste Deposit Sites in Benin Metropolis. (July 18, 2017), NIJOTECH.
18. Trenchless Technology Environmental Impact Assessment and Implementation Measures: Case Study of Nigeria. (November 7, 2017), NIJOTECH.
19. Impacts of Rural Development on Erosion in Awka-Orlu Uplands of South-Eastern Nigeria. (November 7, 2017), NIJOTECH.

20. Effect of Rice Husk Ash on Concrete Produced with Cellulose Industrial Residue. (April 20, 2018). UJET
21. The Effect of Palm Kernel Husk Ash on The Strength of Cement Stabilized Lateritic Soil. (April 20, 2018). UJET.
22. Foundation Settlement and Bearing Capacity in the Six Geo-Political Zones of Nigeria. (September 25, 2018). UJET.
23. Geotechnical Strength Characterization of Nigeria Soils for Engineering Structural Foundations, February 16, 2019, UJET.
24. Modelling the Seepage Characteristics of an Earth Reservoir. February 28, 2019, NIJOTECH.
25. Orthogonal numerical simulation on stability of urban underground cavities,(May 2019), International Journal of Pavement Research and Technology (Springer).
26. Effect of Nanochemicals on Cementiously Stabilized Base Course Layer using Overburnt Brick Aggregate,(January 2020), International Journal of Pavement Research and Technology (Springer).
27. Experimental and statistical study of agro based stabilized lateritic soil for use as road construction material (May 2020), Engineering and Applied Science Research (Thomson Reuters).
28. Study on Strength and Volume Change Behavior of Stabilized Black Cotton Soil with Different pH of Soil-Lime Mixes for Pavement Subgrade,(June 2020), International Journal of Pavement Research and Technology (Springer).
29. Hydraulic Conductivity Behaviour of Expansive Soil Geopolymer Binders (July, 2020), ICE Environmental Geotechnics
30. Agro-Construction Waste Management: A Method of Soil Stabilization for ImprovingSubgrade Characteristics of Clayey Soil (July, 2020), Environmental Chemistry Letters
31. Improvement of Subgrade CBR Using Recycled Concrete Aggregate and Fly Ash (March, 2021), World Journal of Engineering (Thomson Reuters)
32. Application of MTS Fibrobase as Stabilizer for Laterite Soil (March, 2021),Ain Shams Engineering Journal (Thomson Reuters)
33. A Generic Framework of Unifying Industrial Byproducts for Soil Stabilization (June 2021), Journal of Cleaner Production (Thomson Reuters/Elsevier)

-Research Proposals Reviewed

1. Capacity Building in use of High-precision Equipment for Field Assessment of Greenhouse Gas Emissions, for Research and Innovations Fund, Makerere University, Kampala, Uganda
2. Application of Mobile-Phone Technology to Advance Access to Sustainable Point-Of-Use, Water Purification Technologies for Household Drinking Water & Wastewater Reuse for Backyard Food Production, for Research and Innovations Fund, Makerere University, Kampala, Uganda

3. Spatiotemporal Characterization of Indoor-Outdoor Air Quality in Kampala City, for Research and Innovations Fund, Makerere University, Kampala, Uganda
4. Innovations to increase transportation safety on land and water in Uganda, for Research and Innovations Fund, Makerere University, Kampala, Uganda
5. Estimation of Air Pollutants Emitted by Mechanized Road Construction in Uganda, for Research and Innovations Fund, Makerere University, Kampala, Uganda
6. Exploratory Study of Students with Disabilities and a Structured Equation Model (SEM) of government interventions for Inclusive Education in Uganda, for Research and Innovations Fund, Makerere University, Kampala, Uganda
7. Linking the Artisanal Industry with Academia: A Multidisciplinary Design and Technology Approach for Innovation and Industrial transformation in Uganda for for Research and Innovations Fund, Makerere University, Kampala, Uganda
8. Strengthening Accountability for Sexual and Gender Based Violence in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda
9. Estimation of the population size of victims of human trafficking in Kampala, Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda
10. Promoting Access to Justice and Land Rights for Vulnerable Communities in Uganda: Exploring the potential and limits of Public Interest Litigation for Research and Innovations Fund, Makerere University, Kampala, Uganda
11. Development of Fast Broadband Model for Unified Telehealth Delivery in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda
12. Estimation of Air Pollutants Emitted by Building Construction Projects from Material Production to Construction Completion for Research and Innovations Fund, Makerere University, Kampala, Uganda
13. Establishment of the Wood Products Research and Innovation center for product development and skilling the youth in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda
14. Leveraging Information and Communication Technology (ICT) for labour utilization for Research and Innovations Fund, Makerere University, Kampala, Uganda
15. Student Internship, skilling, entrepreneurial intent and employment outcome post Covid-19 in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda
16. Predictors of Transactional leadership and its outcomes in Schools in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda.
17. Valorizing organic waste into high quality animal feed and organic fertilizer using the Black Soldier Fly for Research and Innovations Fund, Makerere University, Kampala, Uganda.
18. Food OR Tobacco (FORT) – Could awareness be the key driver of adoption of sustainable alternative livelihoods to tobacco growing in Uganda?for Research and Innovations Fund, Makerere University, Kampala, Uganda.

19. Promotion of innovative ways of enhancing dairy farm income through improved milk quality and product diversification in the cattle corridor for Research and Innovations Fund, Makerere University, Kampala, Uganda.

20. Enhancing access to formal education for the physically disabled children in Uganda through family and Community Empowerment for Research and Innovations Fund, Makerere University, Kampala, Uganda.

21. Are Domestic Animals Reservoirs for Emerging viral infections: Investigating the role of domestic Animals in the Transmission dynamics of Ebolaviruses, Marburg viruses and coronaviruses in Uganda for Research and Innovations Fund, Makerere University, Kampala, Uganda.

22. Non-typhoidal Salmonella and E. coli infections among children, livestock and wild animals in Rubirizi district, Western Uganda: A tripartite epidemiology and Risk factors for Research and Innovations Fund, Makerere University, Kampala, Uganda.

N. WORKSHOPS/CONFERENCES

1. 2020 Resource person on “green and sustainable construction materials for the 21st century infrastructure” at the Vishnu Institute of Technology, India 3rd webinar held on September 2nd, 2020
2. 2020 Multiscale Modeling of Granular Media, Copenhagen webinar held on July 14, 2020.
3. 2020 Council for the Regulation of Engineering Practice in Nigeria webinar on “Engineering Regulation in the Post COVID-19 Era” held on July 13, 2020.
4. 2020 2nd International Conference on Construction Futures (ICCF2020); Webinar – Tuesday 7th July, University of Wolverhampton, UK.
5. Covenant University-OCIIP Nigeria (CU-OCIIP) Expo 2020 Webinar on Post COVID-19; Creativity and Innovation- The Path to Sustainable Development, 23rd to 25th June, 2020.
6. 2019 Geo Middle East Congress and Exhibition, 3rd GeoMEast; International Society of Soil Mechanics and Geotechnical Engineering (ISSGE)/Soil Structure Interaction in Egypt (SSIG), Nov. 3-5, 2019. Egypt.
7. College of Engineering and Engineering Technology, MOUUAU 2nd International Engineering Conference, IECON, 2-4th September, 2019, Umudike, Nigeria.
8. 2018 Geo Middle East Congress and Exhibition, 2nd GeoMEast; International Society of Soil Mechanics and Geotechnical Engineering (ISSGE)/Soil Structure Interaction in Egypt (SSIG), Egypt.
9. China-Europe Conference on Geotechnical Engineering, SSGG, Austria, 2018
10. 2017 Geo Middle East Congress and Exhibition, 1st GeoMEast, *July 15-19*; International Society of Soil Mechanics and Geotechnical Engineering (ISSGE)/Soil Structure Interaction in Egypt (SSIG), Egypt.

11. Annual Conference on Engineering for Self-Reliance of the School of Engineering & Engineering Technology (SEET), The Federal University of Technology, Akure, Nigeria, 11-13 July, 2017.
12. 18th International Conference and 38th AGM of the Nigerian Institute of Agricultural Engineers (NIAE), Umudike, Nigeria, 3rd to 5th of October, 2017.
13. Understanding the Basics of Academia Virtual Library, August 29- 31, 2016, MOUA, Umudike, Nigeria.
14. Academic Leadership Competence/Work Attitude for Effective and Efficient Lecture Delivery, June 03, 2015, MOUA, Umudike.
15. COREN Engineering Assembly, August 3-6, 2011, Enugu

O. External Examinations

1. External Examiner, PhD examination, African University of Science and Technology, Abuja, Nigeria, 2020.
2. External Examiner, PhD examination, University of Johannesburg, South Africa, 2022.

P. COMMENDATIONS/AWARDS

1. World Top 2% Scientist, conducted by the Stanford University, USA and Published by Elsevier, October 2022
2. Best Researcher Award by Elsevier/SciVal 2022, Michael Okpara University of Agriculture, Umudike, Nigeria
3. Best Research Paper Award by Elsevier/ICARAE2021, Cape Peninsula University of Technology, Cape Town, South Africa.
4. TETFund 2012 Research Grant, Fellowship to University of Nigeria, Nsukka
5. TETFund 2009 Study Grant, Fellowship to University of Nigeria, Nsukka
6. University and College Commendations on COREN Registration

Q. EXTRACURRICULAR ACTIVITIES

Thinking, Football, Table Tennis, Taekwondo/KungFu, Yoga

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A handwritten signature in blue ink, appearing to read 'M. Onyia', is centered below the contact information.

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