CURRICULUM VITAE

1. PERSONAL DATA
2. NAME: Prof. OKUNLOLA Ipoola Ajani FNAH
3. DATE OF BIRTH: 28. 01. 1952
4. CURRENT POSTAL ADDRESS: Chemical and Geological

Sciences Department,

Al-Hikmah University, Ilorin

1. MARITAL STATUS: Married
2. TEL. NO. AND E-MAIL ADDRESS: 0803 313 9881, 0807 195 4252 iaokunlola@alhikmah.edu.ng, geokuns60@gmail.com
3. .STATUS OF FIRST APPOINTMENT: Regular
4. DATE OF LAST PROMOTION: 5th December 2020
5. PRESENT STATUS & INSTITUTION: Professor; Dean, Faculty of Natural and Applied Sciences and Director, Centre for Entrepreneurial & Vocational Studies, Al-Hikmah University, Ilorin
6. DEPARTMENT: Chemical and Geological Sciences

(j) FACULTY: Natural and Applied Sciences

1. UNIVERSITIES ATTENDED (With Dates):

 Justus Liebig University, Giessen, Germany 1973 – 1980

 Sprachnkolleg fuer Auslaender, Freiburg, Germany 1971 – 1973

1. ACADEMIC AND PROFESSIONAL QUALIFICATIONS (With Dates And Graduating Bodies):

First School Leaving Certificate 1964

 West African School Certificate 1969

 Certificate in German Language (Grundstufe) 1972

 Certificate in German Language (Mittelstufe) 1973

 B.Sc (Vordiplom) Geology 1975

 M.Sc (Diplom) Hydrogeology 1977

 Ph.D (Dr. rer. Nat) Engineering Geology 1980

The Council of Nigerian Mining Engineers and Geoscientists (COMEG) GEM 0147 (2001)

Certified trainer on Competency based Economies through Formation of Enterprise (CEFE) organized by German Corporation for International Cooperation GmbH (GIZ) of Germany (2012).

IV. SCHOLARSHIPS AND PRIZES:

* 1. Scholarship award of Friedrich Naumann Stiftung for outstanding performance at undergraduate level and sponsorship of Master and Doctorate degrees at Justus Liebig University, Giessen, Germany 1976 to 1980.
	2. NMGS/MUSLIM IDRIS PRIZE as best presented paper on Hydrogeology during the 54th Annual Nigerian Mining and Geosciences Society (NMGS) Conference in Kano, 2018. Paper title: Investigation of water quality and hydrogeochemical evolution of Borgu area, NC-Nigeria.

V. HONOURS, DISTINCTIONS AND FELLOWSHIPS:

Fellowship award of the Nigerian Association of Hydrogeologists (NAH), November 2014

Distinguished Members Award of Nigerian Mining and Geosciences Society-Ilorin Chapter, 2021

Meritorious Service Award of Nigerian Mining and Geosciences Society-Ilorin, Chapter 2021

VI. MEMBERSHIP OF LEARNED SOCIETIES:

Nigerian Mining and Geosciences Society (NMGS)

Nigerian Association of Hydrogeologists (NAH)

Nigerian Association for Engineering Geology and the Environment (NAEGE)

International Medical Geology Association (IMGA)

Association of Geoscientists for International Development (AGIO)

International Association of Hydrogeologists (IAH)

Nigerian Water Supply Association (NWSA).

VII. LENGTH OF TEACHING

Guest Lectureship at University of Ibadan, Ibadan and Ladoke Akintola University of Technology, Ogbomoso, 2001 to 2008

Contract staff at Federal University of Technology, Minna, January 2008 to January 2015.

Part-time lectureship, Ladoke Akintola University of Technology 2010 to 2016

Al-Hikmah University, Ilorin, February 2015 to date.

VIII. EXPERIENCE SINCE BASIC QUALIFICATIONS

(a) Buro Fuer Geophysik Rammner, Gonnern, Germany 1980 – 1982

Took part in various projects as Hydrogeologist/Engineering Geologist among which are:

(i) Studies and design of Fronderberg Dam, Nethersachesen, West Germany.

(ii) Prospecting and exploitation design studies for clay deposits at Meedam, The Netherlande.

(iii) Geotechnical survey of a 30km proposed central liquid waste drainage for Hallenberg, Hessen, West Germany.

(iv) Geophysical/Hydrogeological investigation, including preliminary evaluation, photogeological studies of a total of 106 villages and towns in parts of old Bauchi and Borno State, Nigeria (National Borehole Programme).

(b) NYSC – Department of Geology, Unilorin, Ilorin 1982 – 1983

 Lecturer of Applied Geology

(c) Geosciences (Nigeria) Limited 1983- 2008

Managing Consultant and Head of Operations

 27, Agba Road, GRA, Ilorin, Kwara State, Nigeria.

IX. RESEARCH INTERESTS

a. Effects of geology on road stability and construction materials.

b. Anthropogenic influence on groundwater and surface water bodies.

c. Groundwater recharge into deep Basement Complex aquifers

X. COURSES TAUGHT (IN THE LAST THREE YEARS):

(a) At the Undergraduate Level)

1. GEM 101: Introduction to Geology I
2. GEM 102: Introduction to Geology II
3. GEM 103: Introduction to Earth History I
4. GEM 106: Introduction to Earth History II
5. GEM 201: Physical Geology
6. GEM 206: Elementary Survey
7. GEM 207: Introduction to Field Geology and Map Interpretation
8. GEM 312: Mapping and Industrial Technics in Geology
9. GEM 314: Geological Entrepreneurial Skills and Consultancy
10. GEM 407: Hydrogeology
11. GEM 400: Seminar
12. GEM 410: Project in Geology

XI. SUPERVISION OF POSTGRADUATE STUDENTS

Master’s Degree Student Supervision

1. Abdulfatai I. A. Engineering geological aspects of gully erosion in Minna,

Niger State

2. Ahmed II, J. B. Effect of activity of Keffi abattoir on groundwater quality

in Keffi, Nasarawa State

3. Andrew M. J. The geotechnical assessment of soil along Lambata- Suleja

road in Niger State

4. Sani Sabo - Evaluation of environmental effects of limestone mining and

processing in Ashaka area, NE Nigeria

5. Aminu Tukur – Groundwater quality assessment of Zango L.G.A. of

Katsina State, NW Nigeria

6. Onyemere Uchenna – Quality assessment of groundwater sources in Lugbe,

FCT, Abuja

7. Okoye Cyprianmorgan - Laterite soil stabilization using quarry dust within

the schist belt of Central Nigeria

8. Okoye Ekene – Groundwater quality assessment of shallow aquifers in

parts of Southern Kaduna, NW Nigeria

9. Maspalma Samson – Geospatial distribution of fluoride contamination in

groundwater and its health implication in Hong L.G.A. NE Nigeria

10. Ibrahim Olojoku – Assessment of heavy metal pollution in surface water

and sediments along Asa river, Ilorin, Kwara State

11. Komolafe Ayorinde – Studies of some aspects of chemical composition of

surface and groundwater in Ogbomoso, SW Nigeria.

PhD Student Supervision

12. Waziri A. Salome – Impact of geology on stability of Nigerian roads, a case

study of Minna – Bida and Minna – Lambata Roads, Niger State.

13. Alkali B.A - Foraminifera and calcareous nannoplankton biostratigraphic

studies of Miocene strata of XY Field, shallow offshore, Niger Delta.

14. Okanlawon, Michael Olawale - Evaluating effects of heavy metals on

ground and surface water in Anka and Bukuyum areas of Zamfara State, Northwestern Nigeria.

XII. PUBLICATIONS

A. THESIS

**1. Okunlola F. A.** Hydrogeologische Untersuchungen in Niederschlagebiet des Kleebaches (Hessen). Translation (Hydrogeological studies of the catchment area of Kleebach (Hessen). Unpublished M.Sc Thesissubmitted to Faculty 22 – Geosciences and Geography of the Justus Liebig University, Giessen, Germany, 140 pages, (July 1977).

**2. Okunlola F. A.** Zusammenhange zwischenmineralogisch-geochemischem Aufbau and bodenmechanishem Verhalten von Lateriten aus West Gabun and Sudwest Nigeria. Translation **(**The relationship between the mineralogical-geochemical components and soil mechanical properties of laterites from West Gabon and Southwest Nigeria). Published Ph.D thesis in: *Giessener Geological Schriften, Nr. 25, 140 pages, Germany* **(**1980**)***.*

B. AUTHORED AND CO-AUTHORED BOOKS

**Okunlola I. A.** &Kolawole L. L**.** (2016).*Manual of Practice for Entrepreneurs in Geosciences and Allied Professions.*Unilorin Press, ISBN: 978 – 978 – 52984 – 9 -9, 208 pages. Ilorin, Nigeria.

C. PUBLISHED JOURNAL ARTICLES

1. **Okunlola F.A.** & Rammner R (1981). Einfluss der Bodennutzung auf die Wasserinfiltration oberhalb des Grundwaserspiegels. Translation (Effect of land use on water infiltration rate above the ground water table). *Zeitschrift fuer angewante Geowissenschaftens*, Germany, Pages 77 – 82.

A publication of Institute fuer angewante Geowissenschaftens, Justus Liebig Universitat, Giessen, Germany

1. **Okunlola F. A.** (1986*)****:*** Examination of factors affecting diminishing quantity and quality of borehole waters. *Proceeding of first annual symposium and exhibition of Nigeria Water and Sanitation Association. Pages* 199 – 222.

A publication ofNigeria Water and Sanitation Association

1. Amadi, A.N., Olasehinde, P. I., **Okunlola I. A**. & Egharevba N. A., (2009). Assessment of Aquifer Characteristics and Groundwater Quality in Parts of Niger State, North-central Nigeria. *International Journal of Chemical Sciences*, 2(2); 234 – 243.

A publication of International Journal of Chemical Sciences

1. Amadi, A. N., Yisa, J., Okoye, N. O. & **Okunlola, I. A.,** (2010). Multivariate statistical evaluation of the hydrochemical facies in Aba, Southeastern Nigeria. *Science Focus: An International Journal of Biological and Physical Sciences* 15(3): 326 – 337.

A publication of International Journal of Biological and Physical Sciences

1. Amadi, A. N., Olasehinde, P.I., **Okunlola, I. A**., Okoye, N.O. & Waziri, S., (2010). A multidisciplinary approach to subsurface characterization in Northwest of Minna, Niger State, Nigeria. *Bayero Journal of Physics and Mathematical Sciences*, 3(1): 74 – 83.

A publication of Department of Physics and Mathematical Sciences

1. Amadi, A. N., Nwawulu. C.D., Unuevho C.I., Olasehinde P. I., **Okunlola, I.A**., Egharevba N. A. Alkali Y.B. (2011). Evaluation of the groundwater potential in Pompo village, GidanKwano, Mina using vertical electrical resistivity sounding. *British journal of Applied Science and Technology*, 1(3): 53-65

A publication of British journal of Applied Science and Technology

1. Jonah, S. A., Baba-Kutigi, Uno, U. E, Kolo, M. T. & **Okunlola, I. A**, (2011). Measurement of a unique carbon monoxide concentration and the creation geographical information system layer map for carbon monoxide pollution in Minna, Niger State, *Journal of Science, Technology, Mathematics and Education*, Vol. 8 (1)

A publication of Department of Science Education, Federal University of Technology, Minna

1. Jonah, S. A., Baba-Kutigi, Uno, U. E, Kolo, M. T. & **Okunlola, I. A**., (2011). Measurement of environmental niose levels and creation of a unique geographical information system layer map for environmental noise pollution in Chanchaga LGA council, Minna, Niger State. *Journal of Science, Technology, Mathematics and Education*, Vol. 8 (1),

A publication of Department of Science Education, Federal University of Technology, Minna

1. Jonah, S.A., **Okunlola, I. A.,** Amadi, A. N., Baba-Kutigi, A. N. & Umar, M. O.(2011). Investigation of nitrogen dioxide indices and the creation of a unique geographical information system (GIS) layer for nitrogen dioxide pollution in Minna, Niger State. *Environmental Technology and Science Journal*, 4(1): 74 – 82.

A publication of Environmental Technology and Science Journal

1. Amadi, A. N., Olasehinde, P.I., Okosun, E. A., Okoye, N.O., **Okunlola, I. A.,** Alkali, Y. B., & Dan-Hassan M.A., (2012). Comparative study on the impact of Avu and Ihie dumpsites on soil quality in Southeastern Nigeria. *American Journal of Chemistry,* 2(1), 17-23. DOI: 10.5923/J. chemistry. 20120201.05.

Available online: http://journal.sapub.org/ chemistry

1. Amadi, A. N., Okeye, N.O., Olasehinde, P.I., **Okunlola, I. A.,** Alkali, Y. B., Ako, T. A. & Chukwu, J. N., (2012). Radiometric survey as a useful tool in geological mapping of western Nigeria. *Journal of Geography and Geology*, 4(1); 242 – 249, DOI: 10.5539/JGG. V4n Ip242.

Available online: www.ccsenet.org/jgg

1. Amadi, A. N., Nwankwoala, H. O., Olasehinde, P.I., Okoye, N.O., **Okunlola, I. A.** & Alkali, Y. B., (2012). Investigation of aquifer quality in Bonny Island, Eastern Niger Delta, Nigeria using geophysical and geochemical techniques. *Journal of Emerging Trends in Engineering and Applied sciences*, 3(1): 180 -184.

Available online: http://www.jeteas.scholarlinkresearch.org

1. Amadi, A. N., Eze, C.J., Igwe, C. O., **Okunlola, I. A.** & Okeye, N.O., (2012). Architect’s and Geologist’s view on the causes of building failures in Nigeria. *Modern Applied Science*, 6(6): 31-38. DOI: 10.5539/mas.v6n6p31.

Available online: www.ccsenet.org/mas

1. Amadi, A.N., **Okunlola, I. A.,**Okoye, N.O., Dan-Hassan, M. A., & Ameh, M. I., (2012). Application of remote sensing in geosciences: An Over-view. *International Journal of Scientific Research,* 2(2). 87-95*.*

A publication of International Journal of Scientific Research

1. Waziri, S. H., Idris-Nda A., **Okunlola, I. A.,** Akano J. T., & Yusuf. I (2012). An integration of electrical resistivity method and geotechnical analysis for foundation investigation: a case study of Talba Estate, Minna, Niger State. *Development Journal of Science and technology Research, Vol. 1, No. 1, page 43-52.*

A publication of Journal and Research Development

1. Waziri S. H., **Okunlola, I. A.,** & Ama I. A (2012). A chemical and bacteriological assessment of groundwater along parts of Minna-Lambata road, North Central Nigeria. *Water Resources*, Vol. 22, 23-31.

A publication of Nigerian Association of Hydrogeologists

1. Ibrahim K.O., **Okunlola, I. A.,** & Abdurrahman A. (2013). Trace metal indices in the characterization of hydrochemical condition of subsurface water along Asariver, Ilorin, Kwara State, Nigeria*. International Journal of Geology, Earth and Environmental Sciences, Vol. 3 (1) page 29 – 35*.

A publication of International Journal of Geology, Earth and Environmental Sciences

1. Ibrahim K.O., & **Okunlola, I. A.,** (2013). Environmental geochemical assessment of freshly deposited sediments of Asa River, Ilorin, Kwara State, Nigeria. *YCJ International Journal of Environmental Issues*, Vol 2, No 1, 12-19.

A publication of YCJ International Journal of Environmental Issues

1. Kolawole,L. L., **Okunlola, I. A.,** &Adeboye A (2013). Analysis of climatic study of Ilorin, Kwara State. *Nigeria Journal of Geography Environment & Planning Vol. 9. No. 1, 1 - 8*

A publication of department of geography & planning sciences, Ekiti State University, Ado Ekiti

1. L. L. Kolawole, **Okunlola, I. A.,** Akpo I. O., & Oyeniran O.O. (2013). The use of locally fabricated seismometer in safety compliance study in Quarry blasting operations: a case study on PW Quarry, Akinyele, Ibadan, SW Nigeria. Nigeria. *Journal of Geography, Environment & Planning.* Vol. 9, No. 1, 109 – 122.
2. A publication of department of geography & planning sciences, Ekiti State University
3. Idris-Nda A., Olasehinde P.I., **Okunlola, I. A.** Alao D, & Ofoegbu J.O. (2013). Environmental effect of Mining Toumaline in the Pegmatities of Sarkin Pawa area, Central Nigeria. *Nigerian Mining Journal,* Vol. 11. No. 55 – 64.

A publication of Nigerian Society of Mining Engineers

1. **Okunlola, I. A.,** Abdulfatai I. A., Kolawole, L. L & Amadi A. N. (2014). Geological and geotechnical investigation of gully erosion along river Bosso, Minna, North Central Nigeria. *Journal of Geoscience and Geomatics*, *Vol. 2, No. 2 (2014): 50-56. doi 1012691/jgg-2-2-2.*

Available online: www.sciepub.com/journal/jgg

1. **Okunlola, I. A.,** Amadi A.N., Idris-Nda A., Agvasi, K.,& Kolawole L. L.(2014). Assessment of Water Quality of Gurara Water Transfer from Gurara Dam to Lower Usuma Dam for Abuja Water Supply, FCT, Nigeria, *American Journal of Water Resources, 2014, vol. 2, no. 4, 74-80.*

Available online: www.sciepub.com/journal/ajwr

1. Abdulfatai, I. A., **Okunlola, I. A.,** Akande, W. G., Momoh, L. O & K.O. Ibrahim. (2014). Review of Gully Erosion in Nigeria: Causes, Impacts and Possible Solutions.” *Journal of Geosciences and Geomatics*, vol. 2, no. 3 (2014): 125-129. Doi: 10.12691/jgg-2-3-8.

Available online: www.sciepub.com/journal/jgg

1. **Okunlola, I. A.,** Okeye Ekene, G. Abdullahi I. N. & Kolawole L. L. (2013). The occurrence of shallow aquifers in parts of southern Kaduna metropolis, North-central Nigeria.  *Water Resources,* Vol. 23, 92 – 99.

A publication of Nigerian Association of Hydrogeologists

1. Amadi A. N., **Okunlola I. A.,** Eze C. 1., Jimoh M. 0., Uriuevho C. I., & AbubakarFahad; (2015). Geotechnical Assessment of Clay Deposits in Minna, North-Central Nigeria for Use as liners in Sanitary Landfill Design and Construction.  *American Journal of Environmental Protection, 2015, Vol.* 3, *No.3, 67-75*

Available online <http://pubs.sciepub.com/env/3/3/2> © Science and Education Publishing 001: 10.126911env-3-3-2.

1. Amadi, A. N., Olasehinde, P. I., Ameh. I. M., **Okunlola I. A.**, & Dan-Hassan, M. A. (2015). Investigating the groundwater potential at the Boys hostel, Bosso Campus, Federal University of Technolohy, Minna, using electrical resistivity method. *Water Resources, Vol. 25, Nos. 1 & 2, November 2015*, pp 92 – 107.

A publication of Nigerian Association of Hydrogeologists

1. Amadi, A. N., Ameh. I. M., **Okunlola I. A.**, Dan-Hassan, M. A., & Tukur (2015). A site investigation for siting a municipal and fill system in Minna, NC Nigeria using electrical resistivity method. *Water Resources, Vol. 25, Nos. 1 & 2, November 2015*. pp 108 – 120.

A publication of Nigerian Association of Hydrogeologists

1. Amadi A.N., Tukur. A., **Okunlola** **I. A**., Olasehinde, P. I., & Jimoh M.O; (2015). Lithologic Influence on the Hydrogeochemical Characteristics of Groundwater in Zango, North-west Nigeria. *Natural Resources and Conservation* 3(1): 11-18, 2015

Available online: <http://www.hrpub.org> DOl: 1 0.13189/nrc.2015.0301 03.

1. Amadi A.N., Akande W. G., **Okunlola I. A.**, Jimoh M.O., & Francis Deborah G.; (2015). Assessment of the Geotechnical Properties of Lateritic Soils in Minna, North Central Nigeria for Road design and Construction; *American Journal of Mining and Metallurgy, 2015, Vol.* 3, *No.1, 15-20*

Available online at: <http://pubs.sciepub.com/ajmm/3/1I3> © Science and Education Publishing 001: 10.126911ajmm-3-1-3.

1. Olasehinde P. I., Amadi A. N., Dan-Hassan M. A., Jimoh M. 0., & **Okunlola I. A**, (2015). Statistical Assessment of Groundwater Quality in Ogbomosho, Southwest Nigeria, *American Journal of Mining and Metallurgy, 2015, Vol.* 3, *No.1, 21-28*

Available online at <http://pubs.sciepub.comlajmm/3/l/4> © Science and Education Publishing DOl: 1 0.12691 /ajmm-3-1-4.

1. **Okunlola I. A.**, Amadi, A. N., Dindey A. O. & Kolawole L. L. (2015). Geotechnical and geochemical properties of lateritic profile on miguatite-gneis along Ogbomosho – Ilorin highway, SW Nigeria. *Civil and environmental research*, Vol. 7, No. 4 (2015). Page 79-85.

A publication of International Institute for Science, Technology & Education

1. Amadi A. N., **Okunlola, I. A**., Dan-Hassan, M. A., Tukur A & Ola
Olubusayo (2015). Evaluation of Groundwater Quality in Shallow Aquifers Minna, North-Central Nigeria using Pollution Load Index. *Journal of Natural Sciences Research*

Available on line: [www.iiste.org](http://www.iiste.org) , ISSN 2224-3186 (Paper) ISSN 2225-092 (Online), Vol.5, No.8, 2015.

1. **Okunlola I. A**., Amadi A. N., Onyemere U. B. & Okoye N. O. (2015). Quality Assessment of Surface and Groundwater Sources in Lugbe, Abuja, North-Central Nigeria. *Journal of Environment and Earth Science*

Available on line: [www.iiste.org,](http://www.iiste.org,) ISSN 2224- 3216 (Paper) ISSN 2225-0948 (Online). Vol.5, No.8, 2015.

1. **Okunlola, I. A.**, Amadi, A. N., Olassehinde, P. I., Maspalma, S. S., & Okoye, N. O. (2016). Quality assessment of groundwater from shallow aquifers in Hong area, Adamawa state, NE-Nigeria. *Ife Journal of Science*, April 2016 Edition, Vol. 18, No. 1, page 267 – 285.

A publication of Faculty of Science, Obafemi Awolowo University, Ile Ife

1. Maspalma, S. S. , **Okunlola, I. A.,** Amadi, A. N., Olasehinde, P. I. & Okoye, N. O.(2016). Geospatial and temporal distribution of fluoride in groundwater and health impacts in Hong area, Adamawa State, N – E Nigeria, *Journal of Natural & Applied Sciences*, Vol. 5, No. 1, 2016, page 82 – 93.

A publication of Faculty of Natural and Applied Sciences, Nasarawa State University, Keffi

1. **Okunlola, I. A.**, Amadi, A. N., Olasehinde, P. I., Sani, Sabo & Okoye, N. O., (2016). Impacts of limestone mining and processing on water quality in Ashaka Area, Northeastern Nigeria. *Development Journal of Science and Technology Research,* 5(1), 47 – 62.

A publication of Applied Sciences and Technology, Ibrahim Badamasi Babangida University, Lapai

1. Enwedo, E. O., Olasehinde, P. I., Amadi, A. N., Okoye, N. O., & **Okunlola, I. A**. (2016). Geotechnical Assessment of Subsoil in Wuye District, Federal Capital Territory, Abuja, Nigeria for Construction Purposes. *Lapai Journal of Science and Technology,* 3(1), 31 – 45.

 A publication of Ibrahim Badamasi Babangida University, Lapai

1. Olasehinde, P. I., Amadi, A. N., Enwedo, E. O., Dan-Hassan, M. A. & **Okunlola, I. A.**, (2016). Assessing the Groundwater Potential in Wuye District, Federal Capital Territory, Abuja, Nigeria. *Development Journal of Science and Technology Research,* 5(1), 67 – 78.

A publication of Applied Sciences and Technology, Ibrahim Badamasi Babangida University, Lapai

1. Owolabi. R. R., **Okunlola I. A.**, Abdullahi, N. I., & Kolawole L. L. (2016) Geo-chemical assessment of heavy metals in stream sediments of Okun-Oshin stream, in Ilorin, NC Nigeria. *Water Resources, Vol. 26, Nos. 1 & 2, November 2016*. pp 142 – 155.

A publication of Nigerian Association of Hydrogeologists

1. Kolawole L. L., Tijani M. N., **Okunlola I. A.**, & Habib Mustapha (2017) Mapping spatial and temporal distribution of groundwater recharge in Basement Complex region of Nigeria using remote sensing and GIS approach: A case study of SE-part of GSN sheet 50 (Ilorin). *Water Resources, Vol. 27, Nos.1 November 2017*. pp 68 – 81.

A publication of Nigerian Association of Hydrogeologists

1. Sabo S., **Okunlola I. A**., Amadi A. N., Olasehinde P. I., Okoye N. O., & Abubakar A. E. (2018)*.* Assessing heavy metal contamination in soils around Ashaka cement factory, Gombe State, NE Nigeria using ecological pollution indices. *Lapai Journal of Science and Technology, Vol. 4, No 1 (2018)* pp 33 – 48

A publication of Ibrahim Badamasi Babangida University, Lapai

1. A. N. Amadi, A. Tukru, S. S. Maspalma, **I. A. Okunlola**, C. I., Unuevho & I. M. Ameh (2019). Comparative geological study and physic-chemical parameters of groundwater in Hong and Zango settlement in Northern Nigeria. *J. Chem Soc. Nigeria*, Vol. 44, No. 2, pp. 292-300.

A publication of Chemical Society of Nigeria

D. TECHNICAL REPORTS

1. Geotechnical report on supervision and as-built foundation report on Omi Dam (250 million m3 impoundment capacity), Yagba East LGA, Kogi State 1990 - 1992. Niger River Basin development Authority, Minna.
2. Geotechnical report on supervision of: Ilorin - OmuAran Road OmuAran - Oro Ago Road Ilorin - Jebba Road Oshogbo - Gbongan Road Ilorin - Igbeti - kishi Road Projects executed with STRUDEV Consultancy Services in 1996 - 1998 under Petroleum Trust Fund intervention scheme.
3. Subsoil investigation for Proposed Abuja Academy Water Supply dam. 1989. Projects executed for YOLAS Consultant, Ilorin. 65 pages.
4. Geotechnical Survey of the Proposed Site for Oro Ago Irrigation Dam Project 1987 Niger River Basin Development Authority, Ilorin. 102 pages.
5. Geotechnical and geophysical survey report on the proposed rail line between Libreville and Booue, Republic of Gabon. 1977. Technical report submitted to Cooperation for Development, Regional Planning and Infrastructure, Frankfurt, Germany. 63 pages.
6. Geological and reconnaissance survey for 200 Primary Health Care Centres Nationwide. 2002. National Primary Health Care Development Agency, Abuja, 230 pages.
7. Design of Groundwater Monitoring Networks for the Aquifers of the Lower Niger Sedimentary Basin. 2006. Federal Ministry of Water Resources and Rural Development, Abuja. 143 pages.
8. Data collection, groundtruthing and collation nationwide for the enrichment of the hydrological information system for the Hydrological Information System for the hydrological Mapping of Nigeria project in Hydrological Area 4 - Nassarawa, Plateau and Benue States. 2006. Federal Ministry of Water Resources and Rural Development, Abuja. 322 pages.
9. Preliminary data collection and collation in the Hydrological Areas 2 and 4 for the Hydrogeological Mapping of Nigeria - Kwara, Kogi, Niger, FCT, Benue, Nassarawa and Kaduna states. 2002. Federal Ministry of Water Resources and Rural Development, Abuja. 430 pages
10. Predrilling Geophysical Survey at Irepodun and Oyi Local Government Areas, Kwara State. 1987. Kwara State Directorate of Food, Roads and Rural Infrastructures, Ilorin. 58 pages.
11. Geophysical and Hydrogeological Investigation for University of Maiduguri and Federal University of Technology, Yola. 1986. ALOLIS Geo-sciences (Nigeria) Limited, Lagos. 78 pages.
12. Geotechnical studies of foundation at Geregu Gas Power Plant, Geregu, Kogi State. 2013, 32 pages,
13. Field Report on Hydrological and Hydrogeological Surveys at Irapa – Amodu, Ifelodun LGA, Kwara State. Report Number: KW-F-2-07. 2015
14. Field Report on Exploratory Boreholes Drilled at Irapa – Amodu, Ifelodun LGA, Kwara State Report Number: KW-F-2-09. 2015
15. Field Report on Aquifer Test of Six (6) Production Boreholes at Irapa – Amodu, Ifelodun LGA, Kwara State Report Number: KW-F-3-12. 2015

E. JOURNAL ARTICLES AND BOOK CHAPTERS ACCEPTED FOR PUBLICATION:

**Okunlola I. A**., Kolawole L. L, Owolabi R. R. Prediction of hydraulic characteristics of aquifer and availability of water supply for irrigation farming in basement complex terrain, in part of Ilorin sheet, North-Central Nigeria. Minna Journal of Geosciences, June 2019.

F. CONFERENCES, SEMINARS & WORKSHOPS ATTENDED WITH DATES:

1. **Okunlola I. A,** and Amadi A. N. 2009a. A comparative assessment of the transmissivity of the Basement Complex and Nupe Sandstone formation of Niger state, North Central Nigeria. Paper presented at the 45th Annual NMGS conference at Owerri, March 4 -- 8, 2009.
2. **Okunlola I. A**, and Amadi A. N. 2009b. Hydrochemical assessment of groundwater in Niger state, North Central Nigeria. Paper presented at the 45thAnnual NMGS conference at Owerri, March. 4 -- 8, 2009.
3. Amadi A. N., and **Okunlola I. A.** 2009c. Building collapse in Nigeria, Causes and remediation. Paper presented at the 45th Annual NMGS conference at Owerri, March. 4 - 8, 2009.
4. Amadi A. N., Olasehinde P. 1. **Okunlola I. A.** 2009d. Controlling factors of groundwater hydrochemistry in the Benin formation aquifers of Owerri, South Eastern Nigeria. Paper presented at the 215t Annual Conference of Nigerian Association of Hydrogeologists, Maiduguri, November 15 - 20, 2009.
5. **Okunlola I. A.,** and Kolawole L.L 2000. Groundwater potentials of Kabba (North-central Nigeria) as a case study for Southwestern Basement Complex. Paper presented at the 215t Annual Conference of Nigerian Association of Hydrogeologists, Maiduguri, November 15 - 20,2009.
6. Ameh, M. I, Amadi A. N, Olasehinde P. I, **Okunlola I. A** 2010a. The impact of dumpsites on groundwater quality in Makurdi Metropolis, Benue State. Paper presented at the 22ndAnnual Conference of Nigerian Association of Hydrogeologists, Abuja, November 16 - 21, 2010.
7. Kolawole L. L., **Okunlola I. A.** et aI., 2010b. The use of seismograph to determine safety compliance in quarry blasting operations: A case study on PW Quarry, Akinyele, Ibadan, Oyo State. Paper presented at the 4th Annual NMGS conference at Minna, March 2011.
8. **Okunlola I. A.,** Kolawole L. L. et al., 2010c. Fluorite occurrences in groundwater of Eruwa, SW Nigeria. Paper presented at the 4th Annual NMGS conference at Minna, March 2010.
9. Waziri S. H., **Okunlola I. A.** et aI, 2010d. Some geotechnical properties of parts of Zuba-Kubwa Express Road, Niger State. Paper presented at the 4th Annual NMGS conference at Minna, March 2010.
10. Jonah, S. A., Amadi, N. A., **Okunlola I. A,** 2010e. Geospatial analysis and Geographical Information System mapping of a Greenhouse gas at Minna. Paper presented at the 4th Annual NMGS conference at Minna, March 2010.
11. Jonah, S. A., Amadi, N. A., **Okunlola I. A,** (2010f). Geographical Information System mapping of a Greenhouse gas at Kubwa, Abuja. Paper presented at the 4th Annual NMGS conference at Minna, March 2010.
12. **Okunlola, I. A.,** Kolawole L. L. (2013). Groundwater and job creation. Lead paper for Panel of Discussant at the 25th Annual Conference of the Nigerian Association of Hydrogeologists, Minna, Niger State.
13. Abdulyekeen S. 0, Idris-Nda., Olasehinde P. I., **Okunlola I. A.,** Chemical Composition of water resources in parts of Gwagwalada area, central Nigeria. Paper presented at the 25th Annual Conference of Nigerian Association of Hydrogeologists, Minna, November 3 -7, 20l3.
14. Abdulfatai I. A., **Okunlola I. A,**Olasehinde P. I., Bale R. B. Geotechnical investigation of soil properties contributing to gully erosion propagation along River Yashi, North Central Nigeria. Paper presented at the 25th Annual Conference of Nigerian Association of Hydrogeologists, Minna, November 3 -7, 2013.
15. **Okunlola I. A.** Challenges of borehole failure: Role of professional association in developing capacity. 26th Annual Conference of the Nigerian Association of Hydrogeologists, Abuja, FCT. November 2 -7, 2014.
16. Kolawole L L., **Okunlola I. A.** Strategies for professionalization of groundwater resources sector: opportunities from National Code of Practice for water well construction in Nigeria. 26th Annual Conference of the Nigerian Association of Hydrogeologists, Abuja, FCT. November 2 -7, 2014.
17. Kolawole L. L., **Okunlola I. A.,** Habib M. A. Mapping of linearments for groundwater targeting using remotely sensed data: A case study of part of Ilorin sheet. 26th Annual Conference of the Nigerian Association of Hydrogeologists, Abuja, FCT. November 2 - 7, 2014.
18. Kolawole L. L., **Okunlola I. A.,** Okpara S. 0., Habib M. A. A study of groundwater levels in cretaceous aquifers in semi arid regions: Case study of groundwater fluctuations in BirninKebbi and Damaturu monitoring wells. 26th Annual Conference of the Nigerian Association of Hydrogeologists, Abuja, FCT. November 2 -7, 2014.
19. Maspalma S. S., **Okunlola I. A.,** Oyedeji O. A. Evaluation of groundwater quality of shallow aquifers around hong and its environs, North-eastern Nigeria. Annual Conference of the Nigerian Association of Hydrogeologists, Abuja, FCT. November 2 - 7, 2014.
20. Kolawole L. L.**, Okunlola I. A** Evaluation of Quality of Asa River Using Hydrogeochemical Approach International Conference on Sustainable Development in Africa in the 21st Century. The Postgraduate School Ladoke Akintola University of Technology, Nigeria. June 4-6, 2015.
21. Kolawole, Lateef L, **Okunlola I**. **A.** (2015) Hydrochemical characteristics of ground water of crystalline rock aquifers in humid tropical climate in part of Ilorin sheet, Nigeria *"*id n°78Aqua2015 42nd International Association of Hydrogeologists-IAH, Angelicum Congress Centre, Rome, Italy September 13th-18th, 2015***.***
22. Kolawole, Lateef L, **Okunlola I. A.,** Oyeniran M and Owolabi R Study of crystalline basement fracturing orientation using radial sounding electrical resistivity methods in selected sites around Ilorin, Kwara State, Nigeria (NAH15OW041**)** 27th Annual Conference of the Nigerian Association of Hydrogeologists, Owerri, November 2015
23. Kolawole, L L, Tijani., M N, Owolabi. R Rand **Okunlola. I A** (2016). Corrosive characteristics of surface and groundwater in Part of Ilorin Sheet. West-Central Nigeria. 1st International Conference of Nigeria Association of Environmental and Engineering Geologist NAEGE), Lagos. Abstract Volume.
24. Olasehinde, P. I., Ejepu, S. J., Okhimamhe, A. A., **Okunlola. I. A.** Determining hydrogeological characteristics of Basement aquifers of Paiko Sheet 185 NC Nigeria using Integrated Geophysical and Remote Sensing Techniques. Paper presented at the 52th Annual NMGS conference at Ilorin, March 13-18, 2016.
25. Sidi, A. A., Waziri, N. M., Maji. A. T., **Okunlola I. A**., Umar, A. Waziri, S. H. Hydrochemical assessment of shallow alluvial aquifers of River Gbako flood plain around Badegi, Central Bida Basin, Nigeria. Paper presented at the 52th Annual NMGS conference at Ilorin, March 13-18, 2016.
26. Kolawole, L. L., Tijani, M. N., Rahman O. R. **Okunlola A. I**. A preliminary study of geochemical weathering indices of part of Ilorin Sheet, SW Nigeria. Paper presented at the 52th Annual NMGS conference at Ilorin, March 13-18, 2016.
27. Kolawole, L. L., Tijani, M. N., Rahman O. R., **Okunlola A. I**. Assessment of surface water quality of Asa River using hydrochemical methods. Paper presented at 26th Colloquium of African Geology at International Conference Centre, University of Ibadan, Ibadan on the November 23rd – 27th 2016.
28. **Okunlola A. I**., Rahman O. R., Kolawole, L. L. Hydrochemical investigations of water resources for irrigation at North of Aderan, Kiama LGA, Kwara State, Nigeria. Paper presented at 26th Colloquium of African Geology at International Conference Centre, University of Ibadan, Ibadan on the November 23rd – 27th 2016.
29. Kolawole, L. L., Tijani, M. N., Rahman O. R. **Okunlola I. A**. water-rock interaction and major sources controlling groundwater chemistry from a Basement rock terrain in part of Ilorin, WC Nigeria. Paper presented at 26th Colloquium of African Geology at International Conference Centre, University of Ibadan, Ibadan on the November 23rd – 27th 2016.
30. **Okunlola A. I**., Rahman O. R., Kolawole, L. L., Jimoh R. O. Multidisciplinary studies of an open dumpsite in a Basement complex terrain: A case study of Gbagede dumpsite, Ilorin, SW Nigeria. Paper presented at 26th Colloquium of African Geology at International Conference Centre, University of Ibadan, Ibadan on the November 23rd – 27th 2016.
31. Kolawole. L. L., Tijani. M. N., Owolabi. R. R., **Okunlola. I. A.** Identification of hydrogeochemical processes in groundwater, using classic integrated geochemical methods and geostatistical techniques in part of Oyun River catchment, Ilorin sheet, West-Central Nigeria. Paper presented at 53rd Annual Conference of NMGS, Abuja, 26th – 31st March, 2017.
32. Kolawole. L. L., Adabanija, M. A., **Okunlola I. A**., Afolabi A. O., Adeleke A. E. Status of warehoused entrepreneurial education for applied geosciences undergraduate programme: LadokeAkintola University experience. Paper presented at 53rd Annual Conference of NMGS, Abuja, 26th – 31st March, 2017.
33. Waziri S. H., Okogbue, C. O., **Okunlola I. A**., Idri-Nda, A. Geotechnical properties of soils derived from rocks along Minna-Lambata road, central Nigeria. Paper presented at 53rd Annual Conference of NMGS, Abuja, 26th – 31st March, 2017.
34. Kolawole. L. L., Tijani. M. N., Owolabi. R. R., **Okunlola. I. A.** Sediment geochemistry and weathering history along Oyun River, 1:100,00 Sheet 223-Ilorin, West Central Nigeria. Paper presented at 53rd Annual Conference of NMGS, Abuja, 26th – 31st March, 2017.
35. Kolawole L L,Tijani M N and **Okunlola I. A.** (2016) Investigation of rare earth elements in surface water and groundwater in parts of Ilorin sheet 223, southwestern Nigeria" (n°2536)43rdInternational Association of Hydrogeologist (IAH) 2016 CONGRESS.Montepellier, France***.***
36. Kolawole L. L., Owolabi R. R., **Okunlola A. I.** (2018). Hydrostratigraphy and groundwater resources evaluation of parts of Bida Basin. Paper presented at the 30th Annual Conference of the Nigerian Association of Hydrogeologists, Minna, Niger State, November, 4 – 8, 2018.
37. Kolawole L. L., Tijani M. N., Owolabi R. R.,  **Okunlola A. I.** (2018). Corrosive characteristics of surface and groundwater in Parts of Ilorin Sheet, WC Nigeria. Paper presented at the 30th Annual Conference of the Nigerian Association of Hydrogeologists, Minna, Niger State, November, 4 – 8, 2018.
38. Kolawole L. L., **Okunlola A. I.,** Ifeta O. A., Oyeniran O. O (2018). The use of a locally fabricated Seismometer in safety compliance study in quarry blasting operations: A case study on PW Quarry, Akinyele, Ibadan SW Nigeria. Paper presented at the 30th Annual Conference of the Nigerian Association of Hydrogeologists, Minna, Niger State, November, 4 – 8, 2018.
39. Kolawole L. L., **Okunlola I. A.** Strategies for professionalization of groundwater resources sector: Opportunities from National Code of Practice for Water Well Construction in Nigeria. Paper presented at 55th Annual Conference of NMGS, Enugu, 17th – 22nd March, 2019.

XIII. COMMUNITY SERVICE

1. Ag. Head of Department, Department of Chemical and Geological Sciences, Al-Hikmah University, Ilorin, February 2015 – April 2018.
2. Member, University Ventures Committee from 6th July 2015 to date.
3. Extraordinary consultant on groundwater resources development to Al-Hikmah University, Ilorin, May 2015 – to date.
4. Director, Centre for Entrepreneurial and Vocational Studies April 2018 - to date
5. Chairman, Ad-hoc Committee on investigation of performance of Al-Hikmah Water Factory, March 2019.
6. Member, Ad-hoc committee on the movement of Faculty of Education from Igbaja campus and replacement with a viable programme, June 2019.
7. Dean, Faculty of Natural ad Applied Sciences, Al-Hikmah University, Ilorin, December 2020 till date

XIV. EXTRA-CURRICULAR ACTIVITIES

* General Secretary, Nigeria Mining and Geosciences Society (NMGS), Ilorin Chapter, 1996 - 1998
* Chairman, Non-Government Association for Literacy Support Services, Kwara State Chapter, 1996 - 1999
* Vice-Chairman, Nigeria Mining and Geosciences Society (NOS), Ilorin Chapter, 2001 to 2005
* Ex-officio, Nigerian Association of Hydrogeologists (NAH) - Ilorin Chapter, 2001 to 2008.
* National Publicity Secretary, Nigerian Association of Hydrogeologists (NAH), 2004 to 2008.
* President, Kwara State Shipper's Association (KWASSA), 2004 to Jan. 2015
* Chairman, Nigerian Mining &Geosciences Society (NMOS) Ilorin Chapter, May 2005 to 2010.
* Member, Board of Governors, Sheba International College, Ilorin, June 2006 to 2010.
* Technical Secretary, Nigerian Association of Hydrogeologists (NAH), 2008 to 2012.
* Managing Director, NAH CONSULTS, the registered consultancy firm of Nigerian Association of Hydrogeologists (NAH), Nov. 2010 – June 2019.
* Chairman, Nigerian Mining and Geosciences Society (NMGS), Ilorin Chapter, April 2015- April 2017.
* Ex-Officio member Nigerian Mining and Geosciences Society (NMGS), Ilorin Chapter, April 2017 to date.
* Guest lectureships
1. University of Ibadan, Ibadan, on 22nd April, 2002.
2. Ladoke Akintola University of Technology, Ogbomoso, from July to October 2007 and 2008.
3. University of Ilorin, Ilorin, on 27th January, 2016.
4. University of Ilorin, Ilorin, on 2nd June, 2016.
5. Kwara State University, Malete on 12th April, 2017.
6. University of Ilorin, Ilorin, on 8th June, 2017.
7. Kwara State Polytechnic, Ilorin on 14th August, 2018

 RESOURCE PERSON DURING WORKSHOPS /CONFERENCES /TECHNICAL MEETINGS

1. Topic: Groundwater and Job Creation 25th NAH Conference 2014, Lead Paper on Panel of Discussant during the 25th Nigerian Association of Hydrogeologists (NAH) Conference 2013 held as Abdulsalam Conference Centre, Minna, 3rdNovember, 2013
2. Topic: Challenges of Borehole Failure - Role of Professional Association in Developing Capacity. Lead Paper during the 26th Nigerian Association of Hydrogeologists (NAH) Conference 2014, Technical Section I held at Merit House, Abuja 4th November, 2014
3. Topic: Role of Professional Association in Developing Capacity for Sustainable Water Project, Sensitization Seminar Organized by Association of Water Well Drilling Rig Owners & Practitioners (AWDROP) held at Kwara Hotels Ilorin on17th July, 2014
4. Topic: Developing solid minerals into Geo-Enterprises. Lecture Series for NMGS meeting, Ilorin Chapter. Held at Ministry of Industry and Solid Mineral Development, Ilorin on 27th August, 2015
5. Topic: Professional Drilling and Nigeria Hydrogeological Status, 2nd Annual Convention/Congress of Association of Water Well Drilling Rig Owners & Practitioners (AWDROP) held at National Water Resources Institute, Kaduna; 16th February, 2017
6. Topic: Geosciences Training and Development of Entrepreneurship Skills. A Career Talk, Nigerian Mining and Geosciences Society, Unilorin Students’ Chapter, 8th June 2017
7. Topic: Costing of Hydrogeological-Geophysical Exploration Projects, Workshop on Hydrogeophysical Exploration of Groundwater in the Basement Terrains: Principles and Practical Applications. Workshop organized by Nigerian Mining and Geosciences Society (NMGS) during the Annual Conference in 2017 at PTDF Secretariat, Abuja.
8. Topic: Who removed economics from Economic Geology? Lecture Series for NMGS meeting, Ilorin Chapter. Held at Ministry of Industry and Solid Mineral Development, Ilorin on 7th June, 2018
9. Topics: (i) Groundwater Exploration Techniques, (ii) How to write Hydrogeological and Geophysical Survey Reports. Workshop during the 30th Annual Conference of Nigerian Association of Hydrogeologists (NAH) held in Minna on 4 - 8 November, 2018
10. Topic: Borehole Drilling Supervision.Workshop organized during the 2nd National Borehole Master Drillers Conference held at Transcorp Hilton Hotel, Abuja, 28 - 29 November, 2018
11. Topic: Environmental Impact Assessment on Groundwater Development. Lecture Series for NMGS meeting, Ilorin Chapter. Held at Ministry of Industry and Solid Mineral Development, Ilorin on 7th March, 2019
12. Topic: Entrepreneurial Opportunities in Mining and Geosciences. Workshop organized by Nigerian Mining and Geosciences Society (NMGS) during the Annual Conference in 2019 at Golden Royale Hotel, Enugu under Continuous Professional Development for students.
13. Topic: Borehole Drilling Supervision.Workshop during the 31st Annual Conference of Nigerian Association of Hydrogeologists (NAH) held in Benin City on 3 - 7 November, 2019.

Dated 2nd August, 2021