



Biodun S. Badmus, Ph.D.

Curriculum Vitae

Professor of Applied Geophysics

Department of Physics
College of Physical Sciences
Federal University of Agriculture, Abeokuta
Ogun State, Nigeria

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**College of Physical Sciences Building
Room 224B**

Age: 56

Education

- **Ph.D. (2006):** Applied Geophysics, University of Lagos, Akoka, Lagos, Nigeria.

Dissertation title: *Determination of "Papa Lanto" Limestone Thicknesses and Its Implication on Groundwater Exploration Using Electrical Resistivity Methods.*

- **M.Sc. (1998):** Solid Earth Physics, University of Ibadan, Ibadan, Nigeria.

Dissertation title: *Propagation of Seismic Waves in an Anisotropic Earth Media.*

- **B.Sc. (1994):** B.Sc. (Hons.) Physics, University of Ibadan, Ibadan, Nigeria.

Dissertation title: *Design and Construction of Digital Musical Doorbell.*

Scholarships and International Recognition

Fellow, CV Raman: CV Raman Fellowship for African Researchers @ Dept of Geological Sciences, Jadavpur University, 700032, Kolkata, India: 15th Sept. - 14th Dec., 2012.

Professional Appointments

(a) Progression since First Appointment with Dates

- | | | |
|--------|---|---|
| (i). | 13 th Nov., 1995 - 6 th Aug., 1998 | Graduate Assistant |
| (ii). | 7 th Aug., 1998 - 30 th Sept., 2001 | Assistant Lecturer |
| (iii). | 1 st Oct., 2001 - 30 th Sept., 2004 | Lecturer II |
| (iv). | September - December, 2004 | University for Development Studies, Navrongo, Ghana: <u>Visiting Lecturer/Research Scientist</u> |
| (v). | 1 st Oct., 2004 - 30 th Sept., 2007 | Lecturer I |
| (vi). | 1 st Oct., 2007 - 30 th Sept., 2011 | Senior Lecturer |
| (vii). | 3 rd March, 2008 - 2 nd March, 2009 | Department of Physics, University of Lagos, Akoka, Lagos, Nigeria: |

- (viii). 1st Oct., 2011 - Sept., 2014
- (viii). Jan - Dec., 2015

Visiting Senior Lecturer/Researcher on Sabbatical

Reader (Applied Geophysics)

Academic Advisor, NNPC/SHELL Centre of Excellence in Geosciences and Petroleum

Engineering: **Visiting Professor/Research Scientist on Sabbatical**

- (ix). 1st Oct., 2014 - Date

Professor (Applied Geophysics)

Department of Physics, Federal University of Agriculture, P.M.B 2240, Abeokuta, Ogun State, Nigeria

(b) Academic Leadership/Administrative Responsibilities with Dates

- (i). **Assistant Coordinator**, Pre-Degree Unit, Federal University of Agriculture, Abeokuta, Nigeria: 2001 - 2002.
- (ii). **Pioneer Coordinator**, Webometrics Centre, Federal university of Agriculture, Abeokuta, Nigeria: May 2009 - Aug. 2010.
- (iii). **Academic Advisor**, NNPC/SHELL Centre of Excellence in Geosciences and Petroleum Engineering, University of Benin, Edo State: Jan - Dec., 2015
- (iv). **Head, Department of Physics**, Federal University of Agriculture, Abeokuta, Nigeria: Feb., 2017 - Feb., 2023.
- (V). **Director, Academic Planning**, Federal University of Agriculture, Abeokuta, Nigeria: May, 2026 - Date.

(c) Courses Taught in the University

- (i). *Undergraduate and Postgraduate Teaching*
 PHS 101: Mechanics and Properties of Matter; Heat and thermodynamics
 PHS 102: Electricity and magnetism; Basic Principles of Wave and Modern Physics
 PHS 191: Experimental Physics I
 PHS 192: Experimental Physics II
 PHS 211: Classical Mechanics (2 Credit Units, 80 Students)
 PHS 251: Element of Modern Physics
 PHS 291: Advance Experimental Physics I
 PHS 292: Advance Experimental Physics II
 PHS 321: Statistical Thermal Physics (3 Credit Units, 25 Students)
 PHS 341: Electromagnetism
 PHS 443: Electronics (3 Credit Units, 185 Students)
 PHS 410: Nuclear Physics
 PHS 468: Semiconductor Devices
 PHS 499: Undergraduate Project
 PHS 701: Electromagnetic Theory
 PHS 713: Seismology and the Internal Structure of the Earth
 PHS 728: Methods of Geophysical Prospecting
 PHS 799: M.Sc. Project

SPECIAL ASSIGNMENTS AND COMMUNITY SERVICES

(a). Within the University with Dates

- (i). Head of Department, Physics: Feb., 2017 - Feb., 2023.
- (ii). Chairman, University Ceremonials Committee: 2017 - 2019.

- (iii). Senate Representative on Appointment and Promotions Committee for Academic Staff (APCAS): 2017 - 2019.
- (iv). Member, Committee on Partnership between FUNAAB/NWRI Regional Centre: 2010.
- (v). Member, University Governing Council Representing Senate: 2020 - August, 2023.
- (vi). Member, University's Senate: 2010 - Date

(b). Services Outside the University

- (i). Evaluation of Solid Minerals within the Southwestern Nigeria using various methods of geophysical prospecting: **Qualitative, Quantitative and Reserve Estimates, 2006 to date.**
- (ii). Environmental Impact Assessment (EIA) Studies for rehabilitation of OYAN Dam: **Geological and Hydrogeological Investigation, 2010.**
- (iii). Geophysical Survey for Borehole in different categories of client within Southwestern, Nigeria, 1996 - Date.
- (iv). Reviewer to many Local and International Academic Journal outfits: 2010 - date.

RELEVANT TRAINING PROGRAMMES ATTENDED WITH DATES

- (i). The Goldschmidt conference of Geo-chemical and European Association of Geo-Chemistry, University of Cologne, Germany: August 19th - 24th, 2009.
- (ii). National Conference on Sustainable Development through Innovative Research in Science and Technology. Jadavpur University, Kolkata, 700032, WB, India: 28 - 29 September, 2012.
- (iii). Near Surface Asia Pacific Conference and Exhibition; Hawaii, United States: 7th - 10th July, 2015.

MEMBERSHIP OF PROFESSIONAL BODIES

- (i). Fellow, Society of Earth Scientist (SES)
- (ii). Member, American association of petroleum geologist (AAPG)
- (iii). Member, Geophysical Association of Nigeria (GAN)
- (iv). Member, European Association of Geochemistry (EAG)
- (v). Member, Geological Society of America (GSA)
- (vi). Member, Nigerian Institute of Physics (NIP)

RESEARCH INTEREST AND COMMISSIONED PROJECTS

(a). Completed: *M.Sc. Projects (Degree Awarded)*

- (i). Integrated geophysical mapping to determine depth to basement of solid minerals around South-western Nigeria.
- (ii). Assessment of groundwater pollution using electrical resistivity and geochemical methods.
- (iii). A 2-D Geophysical investigation of hydrocarbon-derived groundwater contamination.
- (iv). Gravity Support for Hydrocarbon Exploration at the Prospect Level.
- (v). Compositional Trend in the Specks of Tantalite, Tourmaline and Beryl Hosted within Basement Rocks Using Geophysical and Geochemical Methods of Exploration

(b) Ongoing: *Prospective M.Sc. Projects*

- (i). Aquifer Vulnerability/Aquifer Test.
 - (ii). Applications of geophysics to Soil and Groundwater Pollution.
 - (iii). Contribution of geographical methods in the determination of aquifer parameters.
 - (iv). Determination of Aquifer Parameters for a Multiple Well System.
 - (v). Geo-electrical Investigation for the assessment of groundwater condition: a case study.
- Prospective Ph.D Projects**

- (i). Comparing Groundwater Recharge Estimate Using Advance Monitoring Techniques & Models.
- (ii). Environmental Hydrogeology of Effect of Mining and Urban Expansion on Groundwater Quality
- (iii). Groundwater Availability of: Numerical Simulations Through 2050.
- (iv). Integration of Hydrologic Field Investigation, Aquifer Analysis and Proper Well Development in Maximizing Pumping Capacity.

(c) Research and Contributions to Knowledge

Major Research Accomplishments

My research work has focused extensively on groundwater investigation using integrated geophysical methods of geophysical prospecting. I have also used other methods of prospecting to delineate the subsurface structure for mineral exploration. The following are some of the significant contributions I have made in my research areas of interest:

- (i). I have carried out series of field experiment in my locality to determine subsurface contamination in the vicinity of refuse dumps. The major contribution here was to establish the WHO standards for water consumption amongst water wells, borehole drilled within refuse dump sites **(Articles 1, 2, 3, 13, 14, 21, 38 and 39).**
- (ii). I have also used electrical resistivity methods of prospecting to classify the geology of my locality (sedimentary, complex basement and transitional zones) so as to establish the aquifer characteristics for groundwater potentials and be able to have guidelines for water engineers as well as borehole drillers **(Articles 4, 9, 11, 16, 18, 20, 21, 22, 25 and 26).**
- (iii). I have carried out theoretical work on seismic waves in anisotropic earth media. Here, we were trying to study the propagation of seismic waves in various earth media and compared with the direction of groundwater flow. Also arising from this, we were able to understand clearly the numerical model to study the effect of sediment size and depth in the movement of groundwater in an open channel bends systems **(Articles 5 and 7).**
- (iv). I did an extensive research work on mineral exploration and mineral reserve estimates within and around southwestern Nigeria, using integrated geophysical approaches. My main goal was to explore areas where mineral deposits like Mica, Limestone, Kaolin Clay, Tourmaline and other gemstones are located as well as distinguishing between their qualities and quantify the amount of reserve deposits. This gave me a lead way to observe the effects of these mineral deposits on the groundwater potentials of the area where they are located **(Articles 10, 12, 15, 17, 31, 32 and 35).**
- (v). It has not been easy carrying out these research works because of the unavailability of equipment and manpower. This has handicapped a number of good research participation in this area of geophysics. And as such, I tried to carry out fabrication of equipment for resistivity measurement and these are effectively in use **(Articles 8 and 30).**
- (vi). In the recent time, I have collaborated with colleagues working on the interpretation techniques of magnetic data acquired via aeromagnetic by Nigeria Geological Survey Agency (NGSA). Here, we have used various methods to calculated depth estimate and source location as well as distinguishing between shallow and deep magnetic sources within the study locations **(Articles 23, 29, 33 and 34).**

STUDENT SUPERVISION

- (i). B.Sc. ~ 155
- (ii). M. Sc. ~ 42 (Major)
- (iii). Ph.D ~ 7 (Major)

Details of Some M.Sc. Desertations Supervised

Awojobi, A. O., (2008): *Integrated geophysical mapping to determine depth to basement of solid minerals at Ijebu-Oru, southwestern Nigeria.*

Awunor, M. N., (2008): *Assessment of groundwater pollution using electrical resistivity and geochemical methods.*

Ekwunife, U. R., (2008): *Estimation of sand layer thickness using the resistivity method of geophysical prospecting. A case study of Day Waterman College, Asu village, Ogun State, Southwestern Nigeria.*

Ibe, S. C., (2008): *A 2D Geophysical investigation of hydrocarbon-derived groundwater contamination, a case study of Capital Oil and Gas Tank farms, West Minister, Apapa, Lagos, Nigeria.*

Folarin, A. M., (2011): *3D Electrical Resistivity Tomography (ERT) Survey of a Typical Basement Complex Terrain.*

Sotona, N. K., (2011): *Gravity Support for Hydrocarbon Exploration at the Prospect Level: A case study of Giforn, Northern Germany.*

Salam, M. A., (2014): *Implication of Attenuation Coefficient of Lissajous Figures on Porosity of Sediment.*

Babatunde, P., (2012): *Compositional Trend in the Specks of Tantalite, Tourmaline and Beryl Hosted within Basement Rocks Using Geophysical and Geochemical Methods of Exploration.*

Fadodun, L. A., (2014): *Geophysical and Radiochemical Evaluation of Feldspar Deposits: Case study of Akowe village, Ogun State, Southwestern Nigeria.*

Details of Ph.D Thesis Supervised

OLURIN, Oluwaseun Tolutope., (2014): *Determination of Magnetic Mineral Potential Using Airborne Magnetic Data from Ogun State and Its Environs, Southwestern Nigeria.*

GANIYU, Saheed Adekunle., (2015): *Assessment of Groundwater Pollution Around Landfill Sites in Ibadan Metropolis, Southwestern Nigeria Using Intergrated Geophysical and Geochemical Methods.*

OJO, Akintayo Olufemi., (2018): *An Assessment of Selected Solid Waste Dumpsites Using Intergrated Geophysical, Hydr-geochemical and Gamma Spectrometric Techniques Within Abeokuta and Sagamu Metropolises, Southwestern Nigeria.*

FOLARIN, Gbolahan Muiyiwa., (2019): *Intergrated Geophysical and Hyrological Assessment of Groundwater for Agricultural Development Within Selected Farm Settlements in Southwestern Nigeria.*

ADEKANLE, Olorunyomi John., (2024): *Intergrated Geophysical and Geochemical Investigations of Gold Deposit in Itagunmodi Ilesha area of Osun State, Southwestern Nigeria*

MATHEW, Solomon., (2024): *Impacts of Used Oil Spills on Soil and Groundwater Characteristics Using Geophysical and Geochemical Methods in Parts of Southwestern Nigeria.*

International Collaborators

- 1. Prof. K. S. Nokoe**
University For Development Studies
Navrongo, Ghana.
Email: nokoebiomaths@gmail.com
- 2. Prof. Ranjit Kumar**
Department of Geological Sciences
Jadavpur University
Kolkata, West Bengal, India.
Email: anjit_mazumdar2000@yahoo.co.in

Grants: NNPC/SHELL Grant for Postgraduate Research: N2,000,000:00 (2015 - 2018)

SERVICES RENDERED IN OTHER UNIVERSITIES IN NIGERIA

(a) External Assessor for Appointment into the Professorial Cadres (Associate Professor and Full Professor):

2015: Readership and Full Professorship Positions, University of Lagos, Akoka, Lagos, Nigeria.
2018: Readership Position, Lagos State University, Ojo, Lagos, Nigeria.
2019: Readership Position, Federal University of Technology, Mina, Niger State, Nigeria.
2020: Readership and Full Professorship Positions, University of Lagos, Akoka, Lagos, Nigeria.
2021: Readership and Full Professorship Positions, University of Ibadan, Ibadan, Oyo State, Nigeria
2021: Readership Positions, Lead City University, Ibadan, Oyo State, Nigeria.
2021: Readership Positions, Olabisi Onabanjo University, Ago-Iwoye, Ogun State, Nigeria..

(b) External Examiner for Theses and Dissertations:

2015 - 2018: Dept. of Geosciences, University of Lagos, Akoka, Lagos, Nigeria.
2019: Dept. of Physics, Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.
2020: Dept. of Geosciences, University of Lagos, Akoka, Lagos, Nigeria.

Global Academic Field Trips:

2001, 2005, 2009 & 2013: Benin Republic
2001, 2005, 2009 & 2013: Republic of Togo
2012: India
2006, 2009, 2010 & 2014: Republic Ghana
2013, 2015: United Kingdom
2014: Republic Germany
2015, 2019 & 2024: United States of America

LIST OF PUBLICATIONS

(a). Journal Articles

(i) National/Local Publications

1. **Badmus, B. S.**, Oyedele, T and Ojelabi, E. A. (2001): Electrical Resistivity Soundings to Determine Subsurface Contamination in the Vicinity of Refuse Dump. *Global Journal of Pure and Applied Science*, Vol.7, No. 3, 477 - 482. Published by Bachudo Science Co. Ltd., Nigeria. Available online at: <http://www.ajol.info/index.php/gipas/article/view/16217>; ISSN: 1118 - 0579.
2. E. A, Ojelabi, O. O., Fassunwon, **Badmus, B. S.**, D. R, Onabajo., and O. O, Okubanjio. (2001): Geophysical and Chemical Analysis of Groundwater Samples in Ago-Iwoye Area, South West Nigeria. *African Journal of Environmental Studies*, Vol. 2, No. 1, 77 - 80. Published by Development Africa Consortium, Nigeria. ISSN: 878 - 2514.
3. E. A. Ojelabi., O. A. Basorun., **B. S. Badmus.**, S. O. Ariyo., K. F. Oyedele., and O. M, Akintunde. (2001): Geoelectric Sounding Near Ijebu-Ode and Its Implication on Ground Water Exploration. *Journal of Science, Engineering and Technology*, 8(4): 3700 – 3708. Published by Techno system Nig, Ltd., Nigeria. ISSN: 1117 - 4196.
4. Akinyemi, O. D., Olowofela, J. A., Akinlade, O. O., and **Badmus, B. S.** (2003): A Numerical Mode to Study the Effects of Sediment Size and Depth on the Movement of Groundwater in an Open Channel Bend System. *Nigerian Journal of Science*, Vol. 37, No.1, 75 - 79. Published by the Science Association of Nigeria, University of Ibadan. ISSN: 0029 - 0114.
5. E. A. Ayolabi and **B. S. Badmus.** (2004): Hydrogeological Significance of Geoelectric Sounding at Ijebu-Ode Area, Southwest Nigeria. *Global Journal of Geological Sciences*, Vol.2, No.1, 67 - 77. Published by Bachudo Science Co. Ltd., Nigeria. Available online at: <http://ajol.info/index.php/gjgs/article/view/18683>; ISSN: 1596 - 6798.
6. J. A. Olowofela., **B. S. Badmus.**, and C. Offor. (2004): Geoelectric Investigation of the Proposed Seismographic Station at the University of Ibadan, Ibadan, Nigeria. *Zuma Journal of Pure and Applied Sciences*, 6(2), 168 - 171. Published by University of Abuja, Nigeria.
7. O. I. Olusola., **B. S. Badmus.**, and P. Babatunde. (2005): Electrical Resistivity Survey to Determine the Aquifer Characteristics of Isolu Community Southwestern Nigeria. *Journal of Natural Science and Technology ASSET (Series B)*, Vol.4, No.1, 95 - 105. Published by the Federal University of Agriculture, Abeokuta. Available online at: <http://www.unaab.edu.ng/journal/index.php/Sc>; ISSN: 1595 - 9694.
8. **B. S. Badmus.**, G. C. Ufoegbune., O. O. Taiwo., and E. A. Ayolabi. (2008): Geophysical Investigations and Groundwater Quality Within Camp Village, Abeokuta Southwestern Nigeria: *Journal of Natural Science and Technology ASSET (Series B)*, Vol. 7, No. 1, 43 - 52. Published by the Federal University of Agriculture, Abeokuta. Available online at: <http://www.unaab.edu.ng/journal/index.php/Sc>; ISSN: 1595 - 9694.
9. **B. S. Badmus.**, A. A. Odewande., E. A. Ayolabi., and T. Oyedele. (2009): Experimental Investigation of Leachate Contamination Effect on Groundwater Exploration in Basement Complex Area. *Journal of Natural Science and Technology ASSET (Series B)*, Vol. 8, No. 1, 12 - 16. Published by the Federal University of Agriculture, Abeokuta. Available online at: <http://www.unaab.edu.ng/journal/index.php/Sc>; ISSN: 1595 - 9694.
10. **B. S. Badmus.** (2010): Integrated Geophysical Mapping to Determine Depth to Basement at Awa Ijebu, Southwestern Nigeria. *Journal of Natural Science and Technology ASSET (Series*

B), Vol. 9, No. 2, 14 - 22. Published by the Federal University of Agriculture, Abeokuta. Available online at: <http://www.unaab.edu.ng/journal/index.php/Sc>; ISSN: 1595 – 9694.

11. Ganiyu, S. A., **Badmus, B. S.**, Ozebo, V. C., Idowu, O. A., and Olurin, O. T. (2015): Application of Index method for Evaluation of Groundwater Quality Around Dumpsites in Basement Complex. *Nigeria Journal of Hydrological Sciences*, 3, 44 - 64. Published by Nigerian Hydrological Society. Nigeria. Available at: <http://www.nahs.org.ng/journal>

(ii) Books & Chapters in Books

12. Akinyemi, O. D., **Badmus, B. S.** and Vincent, U. E. (2005): Physics at a Glance, Published by the Centre for Human Resource Development, University of Agriculture, Abeokuta, Nigeria, 1 - 85; ISBN: 978-35943-8-9.

(iii) Foreign Publications

13. E. A. Ojelabi., **B. S. Badmus.**, and A. A. Salua. (2002): Comparative Analysis of Wenner and Schlumberger Methods of Geoelectric Sounding in Subsurface Delineation and Groundwater Exploration- A Case Study. *Journal of Geological Society of India*, Vol. 60, 623 - 628. Published by Springer link (USA). Available online at: www.geosinda.org/searchlibrary.aspx; ISSN: 0016 - 7622.
14. J. A. Olowofela., V. O. Jolaosho., and **B. S. Badmus.** (2005): Measuring the electrical resistivity of the Earth using a fabricated resistivity meter. *European Journal of Physics*, Vol. 26, 501 - 515. Published by Institute of Physics, United Kingdom. Available online at: <http://www.iop.org/EJP/26/501>; ISSN: 0143 - 0807.
15. **B. S. Badmus.**, E. A. Ayolabi., J. A. Olowofela., S. A. Adisa., and T. O. Oyekunle. (2005): Current Variation in Electrical Resistivity Probing Using Wenner and Schlumberger Arrays in a Basement Terrain. *Journal of Geophysics and Engineering*, Vol. 2, 118 - 125. Published by British Institute of Physics, United Kingdom. Available online at: <http://www.iop.org/JGE/2/118>; ISSN: 1742 - 2132.
16. **B. S. Badmus** and E. A. Ayolabi. (2005): Litho-Facies Changes in Ewekoro Limestone Using Schlumberger Geoelectric Sounding Technique. *Journal of Applied Science & Technology*, Vol. 10, Nos. 1 & 2, 42 - 52. Published by International Centre for Material Science and Technology (ICMST), Council for Scientific and International Research, Ghana. Available at: <http://www.ajol.info/index.php/jast/cart/view/17451/1667411>; ISSN: 0855 – 2215.
17. **B. S. Badmus.**, J. D. Ayanda., and I. O. Popoola. (2006): Geo-electric Investigation of Mica Schist Deposits in Area J4 of South Western Nigeria. *Journal of Applied Science & Technology*, Vol. 11, Nos. 1 & 2, 39 - 43. Published by International Centre for Material Science and Technology (ICMST), Council for Scientific and International Research, Ghana. Available at: <http://ajol.info/index.php/just/article/view/>; ISSN: 0855 – 2215.
18. **B. S. Badmus** and O. B. Olatinsu. (2009): Geoelectric mapping and characterization of limestone deposits of Ewekoro formation, southwestern Nigeria. *Journal of Geology and Mining Research*, Vol.1, No.1, 8 - 18. Published by Academic Journal. Available online at: <http://www.academicjournals.org/igmr>; ISSN: 2006 - 9766.
19. E. A. Ayolabi., O. B. Olatinsu., and **B. S. Badmus.** (2009): Groundwater Potential Evaluation using Electrical Resistivity Method in a Typical Basement Complex Area of Nigeria: *Journal of*

Science and Technology, Vol. 29, No.1, 52 - 63. Published by International Centre for Material Science and Technology (ICMST), Council for Scientific and International Research, Ghana. Available at: <http://ajol.info/index.php/just/article/view/46441>; ISSN: 0855 – 0395.

20. **B. S. Badmus** and O. B. Olatinsu. (2009): Geophysical evaluation and chemical analysis of Kaolin clay deposit of Lakire village, southwestern Nigeria. *International Journal of Physical Sciences*, Vol. 4, No. 10, 592 – 606. Published by Academic Journal. Available online at: <http://www.academicjournals.org/IJPS>; ISSN: 1992 - 1950.
21. **B. S. Badmus** and O. B. Olatinsu. (2010): Aquifer Characteristics and Groundwater Recharge Pattern in a Typical Basement Complex, Southwestern, Nigeria. *African Journal of Environmental Science and Technology*, Vol. 4, No. 6, 328 - 342. Published by Academic Journal. Available online at: <http://www.ajol.info/index.php/ajest/article/view/56371/44806>; ISSN: 1991 - 637X.
22. **B. S. Badmus.**, K. Sotona., and M. Krieger. (2011): Gravity Support for Hydrocarbon Exploration at the Prospect Level. *Journal of Emerging Trends in Engineering and Applied Sciences*, Vol. 2, No. 1, 1 - 6. Published by Scholar link Research Institute, United Kingdom. Available online at: <http://www.jeteas.scholarlinkresearch.org>; ISSN: 2141 – 7016.
23. **Badmus, B. S.**, Obawole, A. O., and Ganiyu, S. A. (2011): 2-D Geo-electric Evaluation of Soil Contamination by Surface Oil and Gas Tanks in Sedimentary Formation. *Journal of Emerging Trends in Engineering and Applied Sciences*, Vol. 2, No. 2, 203 – 209. Published by Scholar link Research Institute, United Kingdom. Available online at: <http://www.jeteas.scholarlinkresearch.org>; ISSN: 2141 - 7016.
24. J. A. Olowofela., **B. S. Badmus.**, S. A. Ganiyu., O. T. Olurin., and P. Babatunde. (2011): Source Location and Depth Estimation from Digitized Aeromagnetic Data Acquired from a Basement Complex Formation. *Journal of Earth Science India*, Vol. 4, No. 3, 136 - 142: Published by the Indian Society of Earth Scientist (India). Available at: <http://www.earthscienceindia.info/>; ISSN: 0974 - 8350.
25. Olukayode, D. Akinyemi., Yemi, S. Onifade., **Biodun S. Badmus.**, and O.S. Awokola. (2012): Determination of Thermal Properties of Rock Samples Using Modified Thermal Block Method. *Journal of Earth Science India*, Vol. 5, No. 2, 38 - 50: Published by the Indian Society of Earth Scientist (India). Available at: <http://www.earthscienceindia.info/>; ISSN: 0974 - 8350.
26. **B. S. Badmus.**, O. D. Akinyemi., J. A. Olowofela., and G. M. Folarin. (2012): 3D Electrical Resistivity Tomography Survey for the Basement of the Abeokuta Terrain of Southwestern Nigeria. *Journal Geological Society of India*, Vol.80, No. 6, 845 - 854. Published by Springer link (USA). Available online at: <http://www.springerlink.com/openurl.asp?genre=article&id=doi:10.1007/s12594-012-0213>; ISSN: 1819 - 1886
27. **B. S. Badmus** and O. B. Olatinsu. (2012): Geophysical Characterization of Basement Rocks and Groundwater Potentials Using Electrical Sounding Data from Odeda Quarry Site, South-western, Nigeria. *Asian Journal of Earth Sciences*; Vol. 5, No. 3.79 - 87.

28. O. D. Akinyemi., J. A. Adegoke., M. A. Salam., **B. S. Badmus.**, and S. O. Awokola. (2012): Characterizing Buried Metallic Objects in Porous from Attenuation Fluctuations. *Asian Journal of Earth Sciences*, Vol. 6, No. 1, 24 - 31. Published by Academic Journals Inc, (USA). Available online at: <http://scialert.net/abstract/doi: 10.3923/ajes.2012>; ISSN: 1819 – 1886.
29. O. D. Akinyemi., Y. S. Onifade., and **B. S. Badmus.** (2012): Improved Determination of Heat Flux Density in Porous Media Using Modified Block Method. *Asian Journal of Earth Sciences*, Vol. 6, No. 1, 16 - 23. Published by Academic Journals Inc, (USA). Available online at: <http://scialert.net/abstract/doi: 10.3923/ajes.2012>; ISSN: 1819 - 1886.
30. S. A. Ganiyu., **B. S. Badmus.**, M. O. Awoyemi., O. D. Akinyemi., and O. T. Olurin. (2013): Upward Continuation and Reduction to Pole Process on Aeromagnetic Data of Ibadan Area, South-Western Nigeria. *Earth Science Research*, Vol. 2, No. 1, 66 - 73. Published by Canadian Centre of Science and Education (Canada). Available online at: <http://dx.doi.org/10.5539/esr.v2n1p66>; ISSN: 1927 - 0542.
31. **B. S. Badmus** and A. O. Kilasho. (2013): Fabrication of Electrical Resistivity Equipment and Some Model Studies within Complex Basement Terrain of Southwestern Nigeria. *Research Journal of Physics*, Vol. 7, No. 1, 17 - 23. Published by Academic Journals Inc, (USA). Available online at: <http://scialert.net/abstract/doi: 10.3923/rjp.2013>; ISSN: 1819 - 3463.
32. **B. S. Badmus.**, O. D. Akinyemi., A. M. Gbadebo., P. Babatunde., O. T. Olurin., and S. A. Ganiyu. (2013): Compositional Trend in the Specks of Tantalite, Tourmaline and Beryl Hosted within Complex Basement Rocks Using Geophysical and Geochemical Methods of Exploration. *IOSR Journal of Applied Physics*, Vol. 3, No. 4, 24 - 33. Published by International Organisation of Scientific Research (USA). Available online at: www.iosrjournals.org/iosr-jap/pages/v3i4.html; ISSN: 2278 - 4861.
33. **B. S. Badmus.**, O. T. Olurin., S. A. Ganiyu., and O. T. Oduleye. (2013): Evaluation of Physical Parameters of Various Solid Minerals within Southwestern Nigeria Using Direct Experimental Laboratory Methods. *American International Journal of Contemporary Research*, Vol. 3, No. 3, 152 - 161. Published by Centre for Promoting Ideas, USA. Available online at: www.aijcnrnet.com; ISSN:
34. J. A. Olowofela., O. D. Akinyemi., **B. S. Badmus.**, M. O. Awoyemi., O. T. Olurin., and S. A. Ganiyu. (2013): Depth Estimation and Source Location of Magnetic Anomalies from a Basement Complex Formation, Using Local Wave Number Method. *Journal of Applied Physics*. Volume 4, Issue 2, PP 33 - 38, 2013): *IOSR Journal of Applied Physics*, Vol. 4, No. 2, 33 - 38. Published by International Organisation of Scientific Research (USA). Available online at: www.iosrjournals.org/iosr-jap/pages/v3i4.html; ISSN: 2278 - 4861.
35. **B. S. Badmus.**, M. O. Awoyemi., O. D. Akinyemi., S. A. Ganiyu., and O. T. Olurin. (2013): Magnetic Gradient Techniques on Digitized Aeromagnetic Data of Ibadan Area, South-Western Nigeria. *Central European Journal of Geosciences*. Published by Springer, USA. Available online at: [DOI: 10.2478/s13533-012-0136-5](https://doi.org/10.2478/s13533-012-0136-5)

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ABRIDGED CITATION OF PROF. BIODUN S BADMUS

Biodun Badmus was born to the family of Chief Folorunso and Chief (Mrs) Mulikat Badmus in the late 60's at Ijebu Ode, Ogun State of Nigeria. He completed his primary and secondary education in the year 1981 and 1986 respectively. He was at the premier University, the University of Ibadan, Ibadan, Oyo State, Nigeria, for both Bachelor's and Master's Degrees in the Department of Physics, where he graduated in the top ten of his class with a second Class Upper Division at B.Sc. (1994) and a grade to proceed to Ph.D. in 1998 respectively. **Biodun** later left Ibadan for the University of Lagos, Akoka, Lagos, for his Ph.D. programme between 1999 and 2006 where he obtained Doctor of Philosophy in Applied Geophysics.

Professor Badmus assumed duty in the Federal University of Agriculture, Abeokuta, Ogun State as Graduate Assistant in 1995 and rose through ranks to the position of Professor of Applied Geophysics on October 1, 2014. In the course of his career, Professor Badmus was a Visiting Lecturer and Visiting Senior Lecturer on Sabbatical at the University for Development Studies, Navrongo, Ghana and the Department of Physics, University of Lagos in 2004 and 2009 respectively. He is a recipient of the prestigious CV Raman Fellowship for African Researchers, this he utilized at the Department of Geological Sciences, Jadavpur University, India in 2012. **Badmus** was also honoured with an offer of One-Year Sabbatical Appointment by the Shell Petroleum Development Company of Nigeria Limited as a Research Scientist and Advisor at the Centre of Excellence in Geosciences and Petroleum Engineering, University of Benin, Benin City, Nigeria between January and December, 2015.

Professor Badmus held some remarkable positions in the Federal University of Agriculture, Abeokuta: He was an Assistant Coordinator, Pre-Degree Unit from 2001 to 2002; Pioneer Coordinator, Webometric Centre between 2009 and 2010. He was the Chairman, University Ceremonials Committee from 2017 to 2019; Senate Representative on Appointment and Promotion Committee for Academic Staff (APCAS) from 2017 to 2019.

Professor Badmus is known for outstanding performance as evidenced in many commendation and appreciation letters issued to him by the University Administration for selfless and meritorious services rendered by him while holding these various positions in the University. He was Head of Department of Physics, College of Physical Sciences of Federal University of Agriculture, Abeokuta, Nigeria. It is noteworthy that **Professor Biodun Badmus** is an active member of Academic Staff Union of Universities (UNAAB Chapter) who served in various capacities. He was the **Internal Auditor** (2000 - 2006); **Secretary** (2006 – 2008); **Vice-Chairman** (2010 – 2012) and **Chairman** (2012 – 2014).

Professor Biodun Badmus is a Fellow/Member of numerous professional bodies and has to his credit over 60 peer reviewed academic journals and conference proceedings. He has supervised over 155 Bachelor's degree. projects; graduated over 42 Masters and 7 Ph.Ds, all to his credit. He happily married and blessed with lovely children.

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