
BADMUS, Biodun S.

Degree: B.Sc., M.Sc., Ph.D.

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Department: Physics

Academic Rank: Senior Lecturer

Current position: Coordinator, Webometrics Centre

Research Interest: Solid Earth Geophysics

- Solid Mineral Explorationist
- Environmental Geophysicist
- Groundwater Expert



DETAILED RESUME

ACADEMIC DEGREES WITH DATE

Ph.D. Applied Physics (Geophysics)	-	2006
M.Sc. Solid Earth Physics (Geophysics)	-	1998
B.Sc. Second Class (Upper Division)	-	1994

INSTITUTIONS ATTENDED WITH DATE

University of Ibadan, Ibadan, Nigeria.	-	1989-1994
University of Ibadan, Ibadan, Nigeria.	-	1997-1998
University of Lagos, Lagos, Nigeria	-	1999- 2006

MEMBERSHIP OF PROFESSIONAL BODIES

American Association of Petroleum Geologist (AAPG)

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITIONS.

COURSES TAUGHT

Classical Mechanics
General Physics I (Mechanics & Heat)
General Physics II (Waves & Optics; Electricity)
Physics laboratory (All Levels)
Quantum Mechanics
Thermal Physics
Waves and Optics
Nuclear Physics
Modern Physics
Advanced Electrodynamics (Postgraduate)
Solid Earth Physics & Geophysics
Electronics
Data and Communication
Electronics Devices
Electrical Circuits & Electronics
Energy and Environment

RESEARCH CONDUCTED

M.Sc. Projects

1. Aquifer Vulnerability/Aquifer Test.
2. Applications of geophysics to soil and Groundwater Pollution.
3. Contribution of geographical methods in the determination of aquifer parameter.
4. Determination of Aquifer Parameters for a Multiple Well System.
5. Geo-electrical Investigation for the assessment of groundwater condition: a case study.

Ph.D. Projects

1. Comparing Groundwater Recharge Estimate Using Advance Monitoring Techniques & models.
2. Environmental Hydrogeology of..... :Effect of Mining and Urban Expansion on Groundwater quality
3. Groundwater Availability of --- Aquifer: Numerical Simulations through 2050.
4. Integration of Hydrologic Field Investigation, Aquifer Analysis and Proper Well Development in Maximizing Pumping Capacity.

PUBLICATION

BOOKS

1. Akinyemi, O. D., **Badmus, B. S.**, and Vincent U. E., 2005. *Physics at a Glance*, Centre for Human Resources Development, Abeokuta, Nigeria.

JOURNALS

1. **Badmus, B. S.**, Oyedele, T and Ojelabi, E. A: Electrical Resistivity Soundings to Determine Subsurface Contamination in the Vicinity of Refuse Dump: *Global Journal of Pure and Applied Sciences*. Vol.7, No.3. , PP. 477- 482., June 2001.
2. **Badmus, B. S.**, Ojelabi, E. A, Fassunwon, O. O, Onabajo, D. R and Okubanjo, O. O: 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, 2001.

3. Ojelabi, E. A, Basorun, O. A., **Badmus, B. S**, Ariyo, S. O, Oyedele, K. F and Akintunde, O. M: Geoelectric Sounding Near Ijebu-Ode and Its Implication on Ground Water Exploration: *J.Sci., Engr. and Tech.* 8(4): 3700-3708, 2001.
4. Ojelabi, E. A, **Badmus, B. S** and Salua, A. A: 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, PP. 623-628, Dec. 2002: www.geosinda.org/searchlibrary.aspx
5. Akinyemi, O. D, Olowofela, J. A, Akinlade, O. O and **Badmus, B. S**: 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 (2003), 75-79.
6. Ayolabi, E. A and **Badmus, B. S**: Hydrogeological Significance of Geoelectric Sounding at Ijebu-Ode Area, South West Nigeria: *Global Journal of Geological Sciences.* Vol.2, No.1, PP. 67-77, 2004: <http://ajol.info/index.php/qjgs/article/view/18683>
7. Olowofela, J. A, **Badmus, B. S** and Offor, C: Geoelectric Investigation of the Proposed Seismographic Station at the University of Ibadan, Ibadan, Nigeria: *Zuma Journ. of Pure and Applied Sciences.* 6(2), 2004.
8. Olowofela, J. A., Jolaosho, V. O and **Badmus, B. S**: Measuring the electrical resistivity of the Earth using a fabricated resistivity meter: *Eur. J. Phys.* 26 (2005) 501-515: <http://www.iop.org/EJP/26/501>
9. **Badmus, B. S**, Ayolabi, E. A., Olowofela, J. A., Adisa, S. A and Oyekunle, T. O.: Current Variation in Electrical Resistivity Probing Using Wenner and Schlumberger Arrays in a Basement Terrain.: *J. Geophys.Eng.*2(2005) 118-125: <http://www.iop.org/JGE/2/118>
10. **Badmus, B. S.** and Ayolabi, E. A: Litho-Facies Changes in Ewekoro Limestone Using Schlumberger Geoelectric Sounding Technique: *Journal of Applied Science & Technology, CSIR-INSS, Ghana.* Vol.10, Nos. 1 & 2, 2005: <http://ajol.info/index.php/just/article/view/17451>
11. **B. S. Badmus**, J. D. Ayanda and I. O. Popoola: Geo-electric Investigation of Mica Schist and Deposits in South Western Nigeria: *Journal of Applied Science & Technology, CSIR-INSS, Ghana.* Vol. 11, Nos. 1 & 2, 2006: <http://ajol.info/index.php/just/article/view/>
12. **B. S. Badmus**, A. A Odewande, E.A. Ayolabi and T. Oyedele: Experimental Investigation of Leachate Contamination Effect on Ground water Exploration in Basement Complex Area: *ASSET, Series B, Vol.5, No.2, 2006.*
13. **B. S. Badmus**, G. C. Ufoegbune, O. O. Taiwo and E. A. Ayolabi: Geophysical Investigations and Groundwater Quality Within Camp Village, Abeokut Southwestern Nigeria: *ASSET, Series B, Vol.5, No.1, 2006.*
14. Olusola, O. I., **Badmus, B. S** and Babatunde, P: Electrical Resistivity Survey to Determine the Aquifer Characteristics of Isolu Community Southwestern Nigeria: *ASSET, Series B, Vol.5, No.1, 2006.*

15. **B. S Badmus** and O. B Olatinsu: Geoelectric mapping and characterization of limestone deposits of Ewekoro formation, southwestern Nigeria: Journal of Geology and Mining Research, Vol. (1), pp. 8-18: <http://www.academicjournals.org/igmr>
 16. Ayolabi, E. A, Olatinsu, O.B and **Badmus, B. S**: Groundwater Potential Evaluation using Electrical Resistivity Method in a Typical Basement Complex Area of Nigeria: Journal of Science and Technology, Ghana, Vol. 29, No.1, pp. 52-63: <http://ajol.info/index.php/just/article/view/46441>
 17. **B. S. Badmus** and O. B. Olatinsu: Geophysical evaluation and chemical analysis of Kaolin clay deposit of Lakire village, southwestern Nigeria: International Journal of Physical Sciences, Vol. 4(10), pp.592-606, October, 2009: <http://www.academicjournals.org/IJPS>
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