

# OBISANYA ADEKUNLE ADEDAPO

## PERSONAL DATA

Gender: Male  
Date of birth: 07/05/1983  
Marital status: Single  
State of Origin: Ogun State.  
Senatorial District: Ogun East  
Local Government Area: Ijebu North  
Ward: Ward 10  
Contact Address: 12, Popoola Street, Cement, Isawo. Ikorodu, Lagos State.  
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Phone Number: +2347064558900  
Next of Kin: Mr. Adedayo Obisanya  
Address of Next of Kin: 12, Kayode Popoola Street, Cement, Isawo. Ikorodu, Lagos State.  
Next of Kin Phone Number: 08169775294

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## ACADEMIC QUALIFICATION

University of Sheffield, Sheffield, United Kingdom. 2013  
*MSc(Eng) Environmental and Energy Engineering (Distinction)*  
Ladoke Akintola University of Technology, Ogbomoso, Nigeria. 2008  
*B.Tech Chemical Engineering (First class).*

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## MEMBERSHIP OF PROFESSIONAL BODIES

- Corporate Member, Nigerian Society of Chemical Engineers 2015
  - Corporate Member, Nigerian Society of Engineers 2015
  - Registered Engineer, COREN 2016
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## PUBLICATIONS

### *Journal*

1. J.K. Liu, T.S. Yang, Z.B. Ren, A.A. Obisanya, X.Y. Tan, Y.D. Rao, J.S. Zhou, F.M. Gao, J.R. Wang. (2024). Multiscale control of MnO<sub>2</sub> growth via [WO<sub>6</sub>]-perturbed [MnO<sub>6</sub>] assembly toward a favorable balance between capacitance and rate performance. *Rare Met.* 43, 1658–1671 <https://doi.org/10.1007/s12598-023-02542-3>

2. Samson Olukayode Olopade, Adeyemi Oluwaseun Adeboje, Adewale Olukayode Olutaiwo, Adekunle Adedapo Obisanya (2023) Comparative Evaluation of the Engineering Properties of Asphaltic Concrete from Selected Asphalt Plants in Southwestern Nigeria for Road Construction. *International Journal of Sustainable Construction Engineering and Technology (IJSCTET)*, Vol. 14, No. 1, 328-336.  
DOI: <https://doi.org/10.30880/ijscet.2023.14.01.030>
3. A. Obisanya, Gloria O. Ajiboye, Isaac O. Ajiboshin, and Olumide I. Ogunyemi (2022). Drying Kinetics and Thin Layer Modelling of Clerodendrum Volubile (Marugbo) Leaves, *International Journal of Chemical Engineering and Applications*, Vol. 13, No. 4, 19-24.
4. Toriola-Coker, L.O., Omokungbe, O., Obisanya, A.A., Yekini, N.A., Alaka, H., & Ayodele-Oja, S. (2022). Public transportation and energy utilisation during Covid-19 pandemic in Nigeria. *South Florida Journal of Development. Miami*, v.3, n.2. p.3031-3043. DOI: 10.46932/sfjdv3n2-112
5. Toriola-Coker, Luqman Olalekan 1, Ajimo, Adeniyi Oluwadamilola, Adebayo Omowunmi Comfort, Anthony Olayinka Adekoya, and Obisanya, Adekunle Adadapo (2021) Effect of Saline Water On The Compressive Strength Of Concrete. *The Journal of Science & Engineering Research* (Vol. 5, No. 1, 2021) 15 - 23
6. A.O. Adeyanju, T.A. Adeosun, and A.A. Obisanya (2021) Experimental Investigation of Wax Deposition in Subsea Pipelines Using a Cold Finger Apparatus. *Journal of Nature Science and Sustainable Technology*, Vol 15, Number 4, 237-245
7. M. Fadayini, O., Madu, C., T. Oshin, T., A. Obisanya, A., O. Ajiboye, G., O. Ipaye, T., ... A. Kingsley, N. (2021). Energy and Economic Comparison of Different Fuels in Cement Production. IntechOpen. doi: 10.5772/intechopen.96812
8. M. Fadayini, O., A. Obisanya, A., O. Ajiboye, G., Madu, C., O. Ipaye, T., O. Rabiun, T., ... T. Akintola, J. (2021). Simulation and Optimization of an Integrated Process Flow Sheet for Cement Production. IntechOpen. doi: 10.5772/intechopen.95269
9. Fadayini, O.M., Obisanya, A.A., Ajiboye, G.O., Oso, A.O., Adagiri, G.A., Folami, N.A., Ajayi, S.J., And Edafeshebure, O. (2020) Thermal Pyrolysis of Waste Polyolefins to Generate Alternative Liquid Fuel. *Uniabuja Journal of Engineering and Technology Vol. 1 (1), 2020*; p. 59-75. <https://www.uniabuja.ujet.ng>
10. M. A., Ogunyemi, I.O, Okeke, U. A, Ladeji, N. A, Obisanya, A. A, & Ajiboye, G.O. (2020). Conversion of Waste Polyethylene Terephthalate (PET) Into Hydrocarbons By Pyrolysis using Local Materials as Catalysts. *IJRDO-Journal of Applied Science*, 5(12), 15-31. <https://doi.org/10.53555/as.v5i12.3399>
11. Adekojo Waheed, M. , Olaitan Aiyedun, P. , Oyediran Adedeji, W. , Adedapo Obisanya, A. , Taiwo Amosun, S. and Oluwole Adesina, A. (2017) Efficiency of Energy Utilisation in a Nigeria Sausage Producing Factory. *Journal of Power and Energy Engineering*, 5, 100-108. doi: 10.4236/jpee.2017.512012.
12. Waheed, M. , Aiyedun, P. , Adedeji, W. , Obisanya, A. , Amosun, S. and Adesina, A. (2017) Energy-Exergy Analysis and Carbon (IV) Oxide Emission of an Aluminium Extrusion Plant in Nigeria. *Engineering*, 9, 1048-1059. doi: 10.4236/eng.2017.912062.
13. Adeyanju, O.A., Adeosun, T.A. and Obisanya, A.A. (2015) Experimental Study of viscosity as a criterion for determination of onset asphaltene flocculation in Nigeria's

crude. *Petroleum and Coal*, Vol. 57, Issue 6, 601-608.

[https://www.vurup.sk/na\\_stiahnutie/experimental-study-viscosity-criterion-determination-onset-asphaltene-flocculation-nigerias-crude/](https://www.vurup.sk/na_stiahnutie/experimental-study-viscosity-criterion-determination-onset-asphaltene-flocculation-nigerias-crude/)

14. Osuolale, F., Anozie, A., & Obisanya, A. (2009). ENERGY AND EXERGY ANALYSES OF A 220MW STEAM POWER PLANT. *LAUTECH Journal of Engineering and Technology*, 5(1), 1-6. Retrieved from <https://www.laujet.com/index.php/laujet/article/view/246>
15. Adekoya, A.O., Tokunbo-Cole, M.O., **Obisanya, A.A.**, Udo, S.B., and Adedeji, O.L (2015) Corrosion prevention in oil pipeline; A panacea to oil leakage. *YABATECH journal of science and Engineering research*, Vol 1, Issue 2, 51-69.

### **Conference**

1. Bakri A.J, Obisanya A.A., Oladerin, K.O., Owolabi, P.A, Olugbogi, J.A and Kolade, H.P. (2022). Design and construction of a groundnut oil extracting machine. *14<sup>TH</sup> Edition of Annual International Conference Of Sciences, Engineering And Environmental Technology (ICONSEET, 2022), The Federal Polytechnic, Ede, Osun State, Nigeria*
2. Obisanya, A. A., Ajiboye, G. O., Ajiboshin, I. O. , Ogunyemi, O. I. and Adedeji, O. L. (2021) Drying Kinetics of *Clerodendrum Volubile* (Marugbo) Leaves In Oven Dryer. *Proceedings of the College of Engineering 3rd International Conference On Engineering Innovations as a Catalyst for Rapid Economic Growth*. Federal University of Agriculture, Abeokuta, p.43-50
3. Amodu, O. S, Obisanya, A.A., Akinyami, M., Ogunyemi, O.I, Ajiboshin, I.O (2021) *Inhibition of metal corrosion in acidic, basic and saline media using ripe and unripe banana peels*. 3rd International Conference in the School of Engineering Yaba College of Technology. Lagos, Nigeria
4. Toriola-Coker, L. O., Ajimo, A. O., Obisanya, A. A., Olopade, S. O. and Adebayo, O. C. (2021) *Citrullus Lanatus seed as a natural coagulant for raw water treatment*, Proceedings of the 3rd International Conference on Engineering Sustainable Utilization of Local Potentials for Scientific, Technological and Engineering Innovations, Yaba College of Technology, Yaba, Lagos Nigeria, September 14 -16, 2021
5. Adedeji, W. O., **Obisanya A. A.**, Adekoya, A. O. & Adesina, A. O. (2016) *Energy-Exergy Analysis and Carbon (iv) Oxide Emission Of An Aluminium Extrusion Plant* School of Engineering 2nd International Conference, Yaba College of Technology.Lagos
6. Adedeji, W.O., **Obisanya, A.A.**, Adekoya, A.O, Adesina, A.O. & Ogunleye, T. O (2016) *Energy Utilisation in a Nigeria Food Manufacturing Industry* School of Engineering 2nd International Conference, Yaba College of Technology. Lagos
7. Adekoya, A.O., Aiyedun, P.O., Adetunji, O.R., Adedeji, W.O., Udo, S.B. & **Obisanya, A.A.** (2016). The effect of smart traffic controller system on the traffic congestion at Jibowu underbridge in Lagos. *Proceedings of the 2016 International Conference on SET: A driving force for sustainable development*. Federal University of Agriculture, Abeokuta.

8. Adeyanju, O.A., Adeosun, T.A. and **Obisanya, A.A.** (2015) *Experimental Study of viscosity as a criterion for determination of onset asphaltene flocculation in Nigeria's crude*. 2nd International Conference on Engineering Innovations and Technology Development, Lagos State Polytechnic, School of Engineering.
9. Ogunyemi, O.I, Eruola, A.O, Adeosun, T.A, **Obisanya A.A.** and Ogunbisi, M.A. (2015) *Wastewater treatment with aluminium beverage can*. School of Engineering 1st International Conference, Yaba College of Technology.Lagos

#### **Thesis**

1. Obisanya A.A. (2013). "The effect of hydrogen on the chemical kinetics of hydrogen-biogas flame", MSc Thesis, University of Sheffield, Sheffield, United Kingdom.
  2. Obisanya A.A. (2008). "Exergy Analysis of a 220MW steam power plant", B.Tech Dissertation, Ladoko Akintola University of Technology, Ogbomoso, Nigeria.
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## **WORK EXPERIENCE**

### ***YABA COLLEGE OF TECHNOLOGY***

***Oct, 2014 – Date***

#### Lecturer

Department of Chemical Engineering

- Teaching Chemical Engineering Courses.
- Supervising student's projects.
- Research and development

#### ***Other Activities/Roles***

- Assistant Secretary, School of Engineering Conference Committee.
- Member, Engr R.O. Fagbemi Lecture series Committee.
- Member, Department of Chemical Engineering Curriculum review committee
- Member, Committee on Engineering Mathematics review
- Examination officer, Department of Chemical Engineering.
- Member, School of Engineering Examination Committee.

### ***PENNINE FOODS, Sheffield, United Kingdom***

***Oct., 2013 – Jan., 2014***

General food operatives (Staffline contractor)

- Operation and maintenance of food processing equipment

### ***HYPO HYGIENE PRODUCT LIMITED, Lagos Nigeria***

***Jan. 2011 - July 2012***

Quality control /Laboratory Analyst

- Full raw material, in-process and finished goods analysis to ensure conformity to specifications.
- Packaging materials testing and inspection.
- Reagent and solution preparation and standardization.
- Daily monitoring and line inspection of finished products to ensure conformity.
- Daily traceability sample and monthly market sample analysis and documentation.
- Monthly analysis of products according to S.O.N procedure.

- Plant water and wastewater sampling and chemical analysis
- Equipment standardization and calibration
- Spectrophotometry analysis of samples to determine heavy metals and hardness
- Product research and development

**GOVERNMENT DAY SECONDARY SCHOOL, Taraba state**

**Mar2009 – Mar 2010**

National youth service corps

- Integrated science, introduction to Technology and Mathematics teacher.
- Head of science department.

**EGBIN POWER THERMAL STATION, Ikorodu, Lagos.**

**Apr 2007 - Nov 2007**

Student Intern

- Operations department / Control room.  
Basic training in the operations of steam power plant, hydrogen plant, water treatment and demineralization plant. Plant operating parameter reading and logging.
- Laboratory department.  
Collection and analysis of samples. BOD and COD analysis of sewage, transformer oil testing, preparation of chemicals for hydrogen generation and water treatment dosage.
- Boiler department.  
Boiler and auxiliaries' maintenance, oiling of snubbers: lagging of pipes, boiler drum inspection and non-destructive testing, furnace inspection and safety valves lapping

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## **RESEARCH INTEREST**

Capacitive deionization, Nanomaterials, Electrochemical process, Supercapacitors, Batteries, Reaction kinetics, fluid flow modelling, process simulation, renewable energy, energy systems, energy storage computational fluid dynamics, pollution control, carbon utilization, oil & gas utilisation and combustion engineering.

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## **SOFTWARE SKILLS**

*IT Skills: Microsoft Office suite*

*Graphics: Cinema 4D, Adobe Illustrator*

**Engineering Software skills:**

Process simulation: *AspenHYSYS, AspenPLUS and CHEMCAD*

Computational fluid dynamics: *ANSYS, COMSOL*

Automation and process control: *MATLAB, RSLogix 500/5000, SIMATIC, GX DEVELOPER, LogixProSim-II, FX-Trainer.*

CAD: *AutoCad*

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## **AWARDS & PRIZES**

- Federal Government Bilateral Education Agreement (BEA)-China Scholarship council- PhD award (2021).
- Petroleum Technology Development Fund (PTDF) overseas MSc scholar 2012/2013.
- Nigerian Universities Engineering Student Association certificate of merit award, Best Student in strength of material, faculty of Engineering, LAUTECH, 2006.
- Nigerian society of chemical Engineers, student chapter, Best academic student, Department of chemical Engineering, LAUTECH, 2007.

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## **TRAINING AND WORKSHOP**

- Skill ‘G’ train the trainer workshop on CNC machines, YABATECH (2014)
- Training on e-learning, CITM YABATECH (2015)
- Training on Automation and Mechatronics Engineering, Leyland Technical centre, Ibadan (2015)
- Nigerian Society of Engineers prospective member workshop (2015)
- Training on Teaching skills, YABATECH (2016)
- Grant Proposal Writing, Online Course. AuthorAid, Yaba College of Technology UNEVOC centre (2016)
- MOOC OIL & GAS, from exploration to distribution, online course. Institute of French Petroleum (IFP) School, France. May, 2016
- Facilitating using Power Point (cohort 5), Commonwealth of Learning. January 2017

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## **EXTRA CURRICULA ACTIVITIES**

These include reading, discussing politics and sports/games

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## **REFERENCES**

- Engr Ajiboshin, Isaac Olugbemi  
Dean, School of Engineering, Yaba College of Technology  
[Isaac.ajiboshin@yabatech.edu.ng](mailto:Isaac.ajiboshin@yabatech.edu.ng)
- Engr Ogunyemi, Olumide Idowu  
Head of Department, Chemical Engineering, Yaba College of Technology  
[Olumide.ogunyemi@yabatech.edu.ng](mailto:Olumide.ogunyemi@yabatech.edu.ng)