Oladotun BOLADE Ph.D, MACS

1, Transit Camp, AUN Housing, Jimeta, Yola, Adamawa State, Nigeria
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1. Education:

2016 - 2019 Ph.D Industrial Chemistry
Covenant University, Ota

2011 - 2012 M.Sc Analytical Chemistry
University of Ibadan, Ibadan

2003 - 2007 B.Sc Chemistry
University of Ilorin, Ilorin

2. Summary of Key Roles:

Oct 2020 - Date **Assistant Professor**
Department of Petroleum Chemistry
School of Arts and Science
American University of Nigeria, Yola, Nigeria

Jan – Sep 2020 **Occupational Health and Safety Specialist/Team Lead**
World Bank-Assisted Third National Urban Water Sector Reform Project,
Nigeria (South East region)

2014 – 2016 **Environmental Scientist**
Fugro Nigeria Limited, Elelewon
Port Harcourt

2012 – 2014 **Fluid Analyst/HSE Officer**
Orion Energy Services Limited, Lekki Scheme 1
Lagos

3. Professional Certifications:

Certified ISO 45001:2018 Lead Auditor
Occupational Health & Safety Management System
(Cert No.: OHS-LA1009630-2020-01*)*

Certified ISO 9001:2015 Lead Implementer
Quality Management System
(Cert No.: QMLI1009630-2016-01)

Certified ISO 9001:2015 Lead Auditor
Quality Management System
(Cert No.: TVEO0305600)

Certified ISO 14001:2015 Lead Implementer
Environmental Management System
(Cert No.: EMLI1009630-2016-01)

Internal Auditor Course; ISO/IEC 17025:2005
Laboratory Management System
(Cert No: ENR-00151579)
British Standards International (BSI)

Certified ISO/IEC 17025:2005 Lead Assessor
Laboratory Management System
(Cert No: LMPAS1009630-2018-07*)*

Managing Safely
Institution of Occupational Safety & Health (IOSH)
(Cert No: 741156)

4. Professional/Industry Experience

Period: 2020

Position / organization: **Consultant/Team Lead**
(Cluster 3; Imo, Abia, Anambra, Ondo and Ekiti States).
World Bank-Assisted Third National Urban Water Sector Reform Project, Nigeria.

Activity summary:

- Audit the Health and Safety Management Systems of the State Water Agencies and determine the level of conformance to the requirements of the ISO 45001:2018 Standard.
- Assess the safety arrangements relating to the handling, storage and use of chemicals within each State Water Agency's operation
- Determine the safety methods required for the operation of laboratories and any other part of the operations of the State Water Agency where chemicals are used
- Assist in determining the safe methods required for the safe operation of each respective State Water Agency
- Assist in identification of the required safety equipment for the protection of the health and safety of workers.
- Provide technical assistance in the area of document development, risk assessment and training on occupational health and safety.
- Prepare and submit preliminary and final reports on both phases of the project.

Period: 2014 - 2016

Position / organization: **Environmental Scientist**
Fugro Nigeria Limited
91, Odani Road, Elelewon, Off Port Harcourt – Eleme Expressway, Port Harcourt

Activity summary:

- Water quality analysis
- Geochemical Fingerprinting/Environmental Forensics
- Environmental Impact Assessments (EIA) projects
- Instrumental Analysis; Gas Chromatography (GC/MS, GC/FID, GC/PID) & Spectroscopy (ICP-OES)
- Internal Auditor, Laboratory and Occupational Health & Safety Management Systems
- Implementation of Environmental & Quality Management Systems (ISO 14001 & ISO 9001)
- Quality Assurance / Control and Method Development

Period 2012 - 2014

Position / organization: **Fluid Analyst/HSE Officer**
Orion Energy Services Limited
No14 Dapo Solanke close Off Emeka Nweze street,Lekki Scheme 1 Lagos Nigeria

Activity Summary

- Health, Safety and Environment; (HSE performance and statistics).
- Geochemical fingerprinting of crude oil samples
- Sample preparation and analysis for metals and petroleum hydrocarbons
- Developed an electronic laboratory management system and got favourable management review.

5. Peer Reviewed Publications:

2021:

Oladotun P. Bolade, Kayode O Adeniyi, Akan B. Williams, Nsikak U. Remediation and optimization of petroleum hydrocarbons degradation in contaminated water using alkaline activated persulphate. Journal of Environmental Chemical Engineering. 9(4) 2021, 105801. https://doi.org/10.1016/j.jece.2021.105801

Oladotun P Bolade, Anuoluwa A Akinsiku, Oluwatobi S Oluwafemi, Akan B Williams, Nsikak U Benson. Biogenic iron oxide nanoparticles and activated sodium persulphate for hydrocarbon remediation in contaminated soil. Environmental Technology & Innovation. 2021. 101719. https://doi.org/10.1016/j.eti.2021.101719

M.E. Ojewumi, E.E. Alagbe, A.P. Abinusawa, A.N. John, S.O. Taiwo and **O.P. Bolade**. Moringa oleifera as natural coagulant in water treatment and production of antifungal soap. IOP Conf. Series: Earth and Environmental Science 655 (2021) 012007. doi:10.1088/1755-1315/655/1/012007

Christiana Ajanaku, Johnbull Echeme, Raphael Mordi, **Oladotun Bolade**, Stella Okoye, Hassana Jonathan, Oluwaseun Ejilude (2018). In-vitro antibacterial, phytochemical, antimycobacterial activities and GC-MS analyses of Bidens pilosa leaf extract. Journal of Microbiology, Biotechnology & Food Sciences. doi: 10.15414/jmbfs.2018.8.1.721-725

2020:

Oladotun P. Bolade, Akan B. Williams, Nsikak U. Benson. Green synthesis of iron-based nanomaterials for environmental remediation: A review. Environmental Nanotechnology, Monitoring and Management. (13) 2020, 100279. https://doi.org/10.1016/j.enmm.2019.100279

Vincent E. Efeovbokhan, Damilola Akinneye, Augustine O. Ayeni, James A. Omoleye, **Oladotun Bolade**, Babalola A. Oni. Experimental dataset investigating the effect of temperature in the presence or absence of catalysts on the pyrolysis of plantain and yam peels for bio-oil production. Data in Brief. Volume 31, August 2020, 105804. https://doi.org/10.1016/j.dib.2020.105804

Vincent Enon Efeovbokhan, Osuvwe P Eduvie, James Omoleye, **Oladotun P Bolade**, Ajibola T Ogunbiyi, Victoria N Anyakora. Classification and characterization of bio-oil obtained from catalytic and non-catalytic pyrolysis of desludging sewage sample. AIMS Energy. 8(6). 2020. 1089-1107.

2019:

Oladotun P. Bolade, Bamidele M. Durodola, Akan B. Williams, Nsikak U. Benson. Persulfate-based degradation of total petroleum hydrocarbons in contaminated water. Journal of Physics: Conference Series. doi: 10.1088/1742-6596/1378/3/032050

O P Bolade, A A Akinsiku, A O Adeyemi, G E Jolayemi, A B Williams and N U Benson. Qualitative analysis, total phenolic content, FT-IR and GCMS characterization of Canna indica as a bioreducing agent for nanoparticles synthesis. Journal of Physics: Conference Series. doi: https://doi.org/10.1088/1742-6596/1299/1/012135

Ifedolapo O Olanrewaju, Raphael C Mordi, Johnbull O Echeme, **Oladotun P Bolade**, Musa Bashir, Silas Ekwuribe, Joan I Ayo-Ajayi. In-vitro Anti-Microbial Studies and GC/MS Analysis of the Leaf Extract and Fractions of Polyalthia longifolia (Engl. & Diels) Verde. Journal of Physics: Conference Series. 1299 (1) doi:10.1088/1742-6596/1299/1/012087

D.E. Babatunde, G.O. Otusemade, V.E. Efeovbokhan, M.E. Ojewumi, **O.P. Bolade**, T.F. Owoeye (2019). Chemical composition of steam and solvent crude oil extracts from Azadirachta indica leaves. Chemical Data Collections. https://doi.org/10.1016/j.cdc.2019.100208

2018:

Oladotun P. Bolade, Anuoluwa A. Akinsiku, Alaba O. Adeyemi, Akan B. Williams, Nsikak U. Benson (2018). Data set on phytochemical screening, FTIR and GC-MS characterisation of Azadirachta indica and Cymbopogon citratus as reducing and stabilizing agents for nanoparticles synthesis. Data in Brief. doi: 10.1016/j.dib.2018.08.133

6. Conference Presentations:

Oladotun P. Bolade, Anuoluwa A. Akinsiku, Akan B. Williams, Nsikak U. Benson (2019). Green synthesis of iron nanoparticles for degradation of petroleum hydrocarbons in crude oil contaminated soil. Poster session presented at IUPAC postgraduate School on Green Chemistry, Dar es Salaam, Tanzania, May 12-19, 2019.

O P Bolade, A A Akinsiku, A O Adeyemi, G E Jolayemi, A B Williams and N U Benson. Qualitative analysis, total phenolic content, FT-IR and GCMS characterization of *Canna indica* as a bioreducing agent for nanoparticles synthesis. 3rd International Conference on Science and Sustainable Development (ICSSD 2019), May 6-9, 2019, Covenant University, Ota.

Oladotun P. Bolade, Bamidele M. Durodola, Akan B. Williams, Nsikak U. Benson. Persulfate-based degradation of total petroleum hydrocarbons in contaminated water. 3rd International Conference on Engineering for a Sustainable World (ICESW 2019), July 3-8, 2019, Covenant University, Ota.

7. Software and Instrumentation Proficiency:

Gas Chromatography (GC-FID, GC-MS, GC-ECD)	Expert
High Performance Liquid Chromatography (HPLC)	Expert
Minitab statistical software	Excellent
Microsoft Office	Excellent
R language	Good
Origin	Very Good

8. Honours/membership:

- Funded by United Nations Environment Programme (UNEP) to attend the 2019 IUPAC Postgraduate Summer School on Green Chemistry, May 12-19, 2019 at Dar es Salaam, Tanzania (Inspired by IUPAC Centenary and the International Year of the Periodic Table Celebrations).

- Member, American Chemical Society (MACS)
  Membership ID: 32787516

- Honours Roll – Ranked among top three graduating students at Department of Chemistry, University of Ilorin, Class of 2007.

9. Undergraduate Project Supervision (Completed):

- Activation of Sodium Persulphate using Iron Phthalocyanine Immobilized on Graphene Nanoplatelets for Catalytic Degradation of Petroleum Hydrocarbons by Salome U. Raymond (Spring, 2021)
- Catalytic Degradation of Petroleum Hydrocarbons Using Cobalt Ferrite Nanoparticles on Reduced Graphene Oxide (CoFe@rGO) in the Presence of Sodium Persulphate by Mairamou Ibrahima (Spring, 2021)
- Production of Bioethanol from Tamarind Kernel Powder (TKP) By Jamilah Umar Sadiq (Fall, 2020)
- Remediation of Crude Oil Contaminated Soil Using Biochar Derived from Groundnut Shell by Opeyemi Olawale (Fall, 2020)
- Production of Bioethanol from Doum Palm Fruit Shell to Enhance Octane Number of Gasoline Using Yeast as Biocatayst by Elijah Progress (Fall, 2020)
- Optimization of The Removal of Petroleum Naphthenic Acids from Crude Oil by Zamena Zion Onyeke (Fall, 2020)
- Catalyzed Degradation of Petroleum Hydrocarbons in Contaminated Soil Using Iron Nanoparticles and Sodium Persulphate By Sarah Shaljaba (Fall, 2020)

10. Courses taught:

Course Title	Course Code
General Chemistry I	CHE 120
Organic Chemistry I	CHE 210
Organic Chemistry II	CHE 211
Polymer Chemistry	PCE 321
Instrumental Methods of Analysis & Applied Spectroscopy	CHE 331
Analytical Chemistry	CHE 330

11. References

- Available on request