


## PERSONAL INFORMATION

# AHUEKWE, EZE FRANK Ph.D

 Covenant University, Ota, Ogun State, Nigeria.

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## PREFERRED JOBS

## Research, Teaching and Consulting

## WORK EXPERIENCE

1 Mar 2018 – Present

### Environmental / Industrial Microbiology Researcher and Lecturer Covenant University, Ota, Ogun State (Nigeria).

▪ Lecturer II, Microbiology Unit, Department of Biological Sciences, College of Science and Technology.

▪ **Courses Taught:**

**Undergraduates:** Introduction to Microbiology; General Microbiology; Basic Techniques in Microbiology; Microbial Physiology; Analytical Microbiology and Quality Control; Industrial Microbiology; and Environmental and Petroleum Microbiology.

**Postgraduates:** Methods of Environmental Impact Assessment; Fermentation Technology and Industrial Microbiology; Advanced Petroleum Microbiology; Advanced Environmental Microbiology; and Advanced Soil and Plant Microbiology.

**Other roles:**

▪ Assistant Coordinator, Departmental Postgraduate Committee

▪ Academic Adviser to Year Two Microbiology Students

▪ Member; Biotechnology Research Cluster, CU Centre for Research Innovation and Discovery.

**Business or sector:** Research and Academia

13 Mar 2017 – April 2, 2018

### Lecturer

#### Clifford University, Owerri, Abia State (Nigeria).

▪ Lecturer II, Department of Microbiology, Faculty of Science.

▪ Member, University Examinations Committee (Faculty Exams Officer)

▪ **Courses Taught:**

General Biology I & II, Introductory Microbiology, General Microbiology I and History and Philosophy of Science.

**Business or sector:** Academia

2 Mar 2015 – 31 Dec 2016

### PhD Research Intern

#### Fugro Nigeria Limited, Port Harcourt (Nigeria).

▪ Analyst, Microbiology and Environment Laboratory.

▪ Physicochemical Assessment of Environmental samples (soil, sediment and water).

▪ Bioaccumulation, Bio-toxicity studies and Investigative Bioconversion Tests.

**Business or sector:** Oil and Gas.

## EDUCATION AND TRAINING

30 Jun 2014 – 18 Jan 2017

### Ph.D Environmental Microbiology

World Bank Africa Centre for Oilfield Chemicals Research (CEFOR),

Institute of Petroleum Studies,

University of Port Harcourt, Nigeria.

2 Feb 2012– 12 Mar 2014

### M.Sc Industrial Microbiology

University of Port Harcourt, Nigeria.

6 Oct 2008 – 23 Mar 2009

### Certificate Course in Information Technology (CCIT)

Federal College of Education, Yola, Adamawa State, Nigeria.

26 Apr 2004 – 10 Sep 2007

### B.Sc Microbiology (Second Class Honours, Upper Division)

Abia State University, Uturu, Abia State, Nigeria.

16 Sep 1996–30 Jun 2002

### West African Senior School Certificate (WASSC)

Government College Umuahia, Abia State, Nigeria.

## PUBLICATIONS

- IRE, F. S. and **AHUEKWE, E. F. (2016)**. PRODUCTION OF FUNGAL LACCASE USING ORANGE PEELINGS AS SUBSTRATES BY SUBMERGED STATIC FERMENTATION. *British Microbiology Research Journal*. 15 (5): 1-19. DOI: 10.9734/BMRJ/2016/27257.
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B. (2016)**. EXPERIMENTAL INVESTIGATION OF SOPHOROLIPID BIOSURFACTANTS PRODUCED BY *Candida* AND *Pleurotus* SPECIES USING WASTE OILS AND RICE BRAN AND THEIR OILFIELD BENEFITS. *Journal of Advances in Biology and Biotechnology*. 7 (4): 1-15. DOI: 10.9734/JABB/2016/27467.
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B. (2016)**. EVALUATION OF HYDROCARBON EMULSIFICATION AND HEAVY METAL DETOXIFICATION POTENTIALS OF SOPHOROLIPID BIOSURFACTANTS PRODUCED FROM WASTE SUBSTRATES USING YEASTS AND MUSHROOM. *Society of Petroleum Engineers*. DOI: 10.2118/183578.
- OKORO, E. E., NNAJI, C. G., SANNI, S. E., **AHUEKWE, E. F.** AND IGWILO K. C. (2020). EVALUATION OF A NATURALLY DERIVED WASTE BROWN OIL EXTRACTS FOR DEMULSIFICATION OF CRUDE OIL EMULSION. *Energy Exploration and Exploitation*. DOI: 10.1177/0144598720905080 [journals.sagepub.com/home/eea](http://journals.sagepub.com/home/eea)

CONFERENCE PRESENTATIONS/  
BOOKS OF ABSTRACT

- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** ASSESSMENT OF THE PHYSICO-CHEMISTRY OF SELECTED INEXPENSIVE AGRO-INDUSTRIAL WASTE SUBSTRATES FOR SOPHOROLIPID BIOSURFACTANTS PRODUCTION. **(Nigerian Society for Microbiology (NSM) 2nd Annual Symposium & General Meeting, FUTO, Imo State, July, 2015).**
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** SOPHOROLIPID BIOSURFACTANTS PRODUCTION FROM *Pleurotus* and *Candida* SPECIES USING AGRO-INDUSTRIAL WASTE SUBSTRATES. **(6th Annual and International Conference of the Renewable and Alternative Energy Society of Nigeria (RAESON), University of Nigeria, Nsukka, April, 2016).**
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** EVALUATION OF HYDROCARBON EMULSIFICATION AND HEAVY METAL DETOXIFICATION POTENTIALS OF SOPHOROLIPID BIOSURFACTANTS PRODUCED FROM WASTE SUBSTRATES USING YEASTS AND MUSHROOM. **(Society for Petroleum Engineers (SPE) Health, Safety, Security, Environment and Social Responsibility Conference, Accra Ghana, October, 2016).**
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** STUDIES ON DIFFERENT RECOVERY TECHNIQUES OF SOPHOROLIPID BIOSURFACTANTS PRODUCED BY *Candida* and *Pleurotus* SPECIES USING AGRO-INDUSTRIAL WASTE SUBSTRATES. **(1st International Conference of the Centre for Continuing Education, (FUTO-CCE), Imo State, May, 2016).**
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** SCREENING AND MOLECULAR CHARACTERIZATION OF SOPHOROLIPID BIOSURFACTANTS-PRODUCING FUNGI ISOLATED FROM HYDROCARBON CONTAMINATED SOILS. **6th International Biotechnology Conference, Exhibition and Workshop (IBCEW), Covenant University, Ogun State, June, 2016).**
- **AHUEKWE, E. F., OKOLI, B. E., STANLEY, O. H., KINIGOMA, B.** OPTIMIZATION OF SOPHOROLIPID BIOSURFACTANTS PRODUCTION FROM *Candida bombicola* ISOLATED FROM HYDROCARBON-CONTAMINATED SOILS. **(39th Annual Conference & General Meeting of the Nigerian Society for Microbiology (NSM), University of Nigeria Nsukka, September 2016).**

**Professional Affiliations** Member: Nigerian Society for Microbiology (**NSM**)  
Associate Environmental Professional: National Registry for Environmental Professionals (**NREP**), USA  
Member: Biotechnological Society of Nigeria (**BSN**)  
Member: Renewable and Alternative Energy Society of Nigeria (**RAESON**)

## PERSONAL SKILLS

**Communication skills** ▪ Good written and oral communication skills gained through my experience as a research intern; lecturer; and through journal article publishing and editing.

**Organisational / managerial skills** ▪ Leadership and research coordination.  
▪ Effective team player and capacity for hard work.

**Job-related skills** Good command of quality control processes in the following research and teaching procedures;  
▪ Isolation, Characterization and Preservation of Pure Cultures.  
▪ Extraction, Purification and Amplification of genetic materials for molecular studies.  
▪ Microbiological Fermentation, Media Optimization and Fermentation Product Recovery.  
▪ Effluent Monitoring and Environmental Evaluation Studies.  
▪ Hands-on experience of chemical analytical techniques.  
▪ Practical experience of molecular biology techniques involving Extraction, Purification and Amplification of genetic materials (DNA) for molecular studies.  
▪ Use of bioinformatics tools to study orthologues and homologues; and protein-protein interaction using STRING.  
▪ SDS-PAGE and Western blotting.

**Other skills** ▪ Good command of Microsoft Office Suite (Word, Excel and Power point presentation software).

**Interests** Reading, Research, Teaching and Travelling

## REFERENCES

**Prof. Oranusi, Solomon U.**

Head of Department,  
Department of Biological Sciences,  
College of Science & Technology,  
Covenant University,  
Ota, Ogun State, Nigeria.  
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**08065299155**

**Prof. Nwinyi, Obinna C.**

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**Prof. Iweala, Emeka E. J.**

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College of Science and Technology,  
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