**CURRICULUM VITAE**

**FULL NAME: OKAFOR CHIKE SAMUEL**

**CONTACT:** P.O. BOX 114 ONITSHA ANAMBRA STATE; BOX 495, NKPOR AGU

**TELEPHONE:** 07037430874, 08181347948

**PERMANENT ADDRESS:** NO. 6 ALL SAINTS SCHOOL CLOSE, NKPOR-AGU

ANAMBRA STATE.

**E-MAIL:** sc. okafor @ unizik,edu,ng

**DATE OF BIRTH:** 13th SEPTEMBER, 1973

**SEX:** MALE

**MARITAL STATUS:**  MARRIED

**NATIONALITY:** NIGERIAN

**INSTITUTIONS ATTENDED WITH DATES:**

NNAMDI AZIKIWE UNIVERSITY, AWKA (PhD) 2004 - 2012

NNAMDI AZIKIWE UNIVERSITY, AWKA (MSc) 1999 - 2003

NNAMDI AZIKIWE UNIVERSITY, AWKA (BSc) 1992 - 1997

CHRIST THE KING COLLEGE, ONITSHA (SSCE) 1985 - 1991

ALL SAINTS PRIMARY SCHOOL, NKPOR (FSLC) 1979 -1985

**ACADEMIC QUALIFICATIONS WITH DATES:**

i.DOCTORATE (PhD) (Pharmacological/Toxicological Biochemistry) 2012

ii. MASTER OF SCIENCE (M.SC) IN APPLIED BIOCHEMISTRY: 2003

iii. CERTIFICATE DIPLOMA IN COMPUTER APPLICATION AND

 UTILIZATION (DIP): 1998

iv. BACHELOR OF SCIENCE IN APPLIED BIOCHEMISTRY

 (SECOND CLASS UPPER DIVISION) (B.Sc): 1997

v. SENIOR SECONDARY SCHOOL CERTIFICATE (SSCE) 1991

vi. FIRST SCHOOL LEAVING CERTIFICATE (FSLC) 1985

**WORK EXPERIENCE**

**INSTITUTION DATE DESIGNATION**

FEDERAL POLYTECHNIC OKO JUNE. 2001-SEPT. 2005 LECT. III

NNAMDI AZIKIWE UNIVERSITY, AWKA SEPT.2005-SEPT.2006 ASST.LECT

NNAMDI AZIKIWE UNIVERSITY AWKA OCT. 2006-SEPT. 2009 LECT. II

NNAMDI AZIKIWE UNIVERSITY AWKA OCT. 2009-SEPT. 20012 LECT. I

NNAMDI AZIKIWE UNIVERSITY AWKA OCT. 2012-TILL DATE SNR. LECT.

NNAMDI AZIKIWE UNIVERSITY AWKA OCT. 2017-TILL DATE ASSOC. PROF.

**CREATIVE OUTPUT:**

**BOOKS.**

1. **Okafor, CS**. (2005). The Basic Concepts of Biochemistry. 1st Ed. Base 5 Pub. Ltd, Onitsha, ISBN:97835907398.

2. Enemor, V.H.A and **Okafor, S.C** (2009), Overview of Drug Addiction and Abuse In: Introduction to History and Philosophy of Science, J.M, Ikegbu and K.I Ubaoji (eds). 1st ed. Fab Ameh Nig. Ltd. Pub., Awka, Nigeria, pp.160-174, ISBN: 978-978-902-387-5.

3. Aniekwe, CJ.E (2011).Metabolism of understanding. 1st ed. **C.S Okafor**, and I.O Igwilo (eds,).

**JOURNALS**

 1. V. H. A. Enemor, Chinenye Enoch Oguazu, C. O. Okpalagu, **S. C. Okafor***.(2021)*

 ***In vitro* Antioxidant Activity of Ethanol Extract of Soybeans (*glycine***

 ***max [l.] merill*) Seeds.** *Niger J Exp Clin Biosci. ;9:25-31.*

2.Adebayo Afees Oladejo, Onwubuya Emmanuel Ikechuckwu,Ogbunugafor

 Henrietta Aritetsoma, **Okafor Chike Samuel** and Ogbodo Chibuzor

 Uche. (2021). **Inhibitory Effects of *Bryophyllum pinnatum* Leaf Extract**

 **on Inflammatory Biomarkers.** *Journal of Advances in Medical and*

 *Pharmaceutical Sciences 23(2): 7-13.*

3.Nwaiwu, N.E., Onu, C.A. and **Okafor, C.S**. (2021).**Efficiency of Protein Extracted From**

 **Stored *Moringa Oleifera* Seed in Modifying the Physicochemical Properties of**

 **Water*.*** *American Journal of Engineering Research (AJER), 10(2): 96-101*

4. Enemor, V.H.A.; Opara, P.O.; Martins, C.E.; **Okafor, C.S**.; Mbaka, O.P. and Obayuwana,

 E.A.(2020). **Nutritional Composition and In-vitro Free Radical Scavenging**

 **Potentials of S*esamumIndicum*Seeds** *Journal of Biotechnology and*

 *Biochemistry, 6 (3): 52-62*

5. **Okafor,C.S**.,Ogbachebe, C.C.,Okwubanego, M.K., Enemor,V.A., Eneh. F.U and

 Nwenyi.V. Inflammatory and Lipid Peroxidation effects of Canola Oil, Extra

 Virgin Olive Oil, and Sunflower Oil on Albino Rats Fed With the Oils.(2020).

*Journal of Environmental Science, Toxicology and Food Technology 14 ( 6): 33-39*

6. Nwaiwu, N.E., Onu, C.A. and **Okafor, C.S**. (2020). A Novel Procedure for Selecting

 Optimum Dosage and Coagulant Activity of Protein Extract from Stored *Moringa*

 *Oleifera* Seed.American Journal of Engineering Research, 9(9): 25-31

7. Nwaiwu, N.E., Onu, C.A. and **Okafor, C.S**. (2020).Effect of Storage Conditions on

 Coagulation Properties of *Moringa oleifera* Seed. Journal of Engineering and

 Applied Science. 16(1): 52-63

8. V.H.A. Enemor, C.E. Oguazu, A.U. Odiakosa and **S.C. Okafor** (2019).

 **Evaluation of the Medicinal Properties and Possible Nutrient**

 **Composition of *Citrullus lanatus* (Watermelon) Seeds** Research Journal of

 Medicinal Plants13(4):129-135.

9.Nwaiwu, N.E., Onu, C.A. and **Okafor, C.S**. (2019).Microbial Regrowth Assessment of

 *Moringa oleifera* Seed Protein-TreatedWater**.** Nigerian Research Journal of

 Engineering and Environmental Sciences 4(2): 863-873

**10. Okafor C S,** Ononuju C. O, Eze C. G, Nwosu O.K, Ifedilichukwu N. H.(2019).

 *Chromolaena odorata* (Siam Weed) as Bio-pesticide Against Beans

 Weevils**.** Agricultural and Biological Sciences Journal,5 (3): 105-109

 **11.**Ifedilichukwu N. H, **Okafor C.S**, Nwosu O .K, Ezeigwe O.C.(2019). Evaluation

of Wound Healing Properties of Nigerian *Archacatina marginata* mucin

 and Its Combination with Honey in Wistar Rats. International Journal of

 Biomedical and Clinical Sciences4(2):47-62

**12. C.S Okafor** and N C. Muoto (2019). Comparative Analysisa of Essential Oil

Extracted from Scent Leaf Ocimum gratissimum by Cold and Soxhlet

 Extraction Methods Journal of Biological and Chemical Research.

 36(1):56-60.

**13. C.S Okafor**, O.E. James, and C.N.Ezekwesili. (2017). Heavy Metal Contents of Meat

 Samples Sold in Awka Metropolis, Anambra State, Nigeria . Journal of

 Biological and Chemical Research. 34(1):68-71.

14. C.E.Nwumeh,**C.S Okafor**, and C.N.Ezekwesili. (2017). Effect of formalin in local

 and foreign instant noodles on haemaological, biochemical parameters of

 male albino rats .Journal of Biological and Chemical Research. 34(1):171-

 180.

15. **C.S Okafor**, M.A Okwudiri and G. Ekwulundu (2016). Determination of

 Aluminum Contents OF Distilled Water Heated in Aluminum Foil only, and

 Food Samples (MOIMOI) Cooked in Alumuinum Foil Plantain Leaves and

 Transparent Water Proof. Journal of Biological and Chemical Research 33

 (1): 314-317

 16. **C.S Okafor**, K.S. Onuorah and V. Anyaorah. (2015). Palm Wine Preservative Using

 Bitter Leaf (Vernonia amydalina). Journal of Biological and Chemical

 Research. 32(2):878-882.

 17. **C.S Okafor**, O.O. Dickson, C.G. Agulefo and V.H. Enemor.(2015). The Effect of

 Exposure to Atmosphere on the Vitamin A and Vitamin E Contents of

 Wheat Flour. Journal of Biological and Chemical Research. 32(1):84-88.

18. **Okafor C.S**, Ifezulike, CK, Agulefo, G and Ogbodo, S.O. (2015). Qualitative and

 Quantitative Analysis of The Ethanolic Extract of Watermelon Peels.

 *International Journal of Developmental Research. 5(6):4686-4688*

.

19. Ogbunugafor, H.A Ajaghaku, D.L, Ezekwesili, C.N, **Okafor, CS**, Igbokwe, GE,

Ajuezieogu, C.F. Ezeonmumelu, I.J (2014). Effects of Cooked Discorea

 dumetorium, Based Diet on Blood Glucose, Antioxidant Enzymes and

 Lipid Profile of Streptozotocin induced Diabetic Rats. Nigerian Journal

 of Biochemistry and Molecular Biology. 29920;107-116.

20. Ogbodo, S.O., Okaka, A.N.C, Nwgha, U.I., **Okafor, CS**. (2014). Oxidative Stress in

 Symptomatic Malaria Parasitemic Pregnant Women from Malaria Endemic

 Area of Nigeria. American Journal of Medicine and Medical Science.

 4(5): 168-174.

21. **Okafor, C.S**. Amuluche, CS., Ezinwa, LL, NNabuenyi, O.H and Okafor, N.C.

 (2014). The Effect of The Extract of The Leaf of *Chromolaena odorata* on

 The Liver of Wistar Albino Rats, the Bioscientist, 2(1); 37-40.

22. **C.S Okafor**, V.H.A Enemor, A. Obidinma, and H.O. Nnabuenyi. (2014).

Determination of the Heavy Metal and Moisture Contents of Some Samples of Red Palm Oil Sold in Awka Metropolis, Nigeria. Journal of Biological and Chemical Research. 31(2):708-712.

23. Henrietta Artetsoma Ogbunugafor, Emmanuel Emeka Ilodigwe, Daniel Lotanna

 Ajaghake, Chinwe Nnoyelum Ezekwesili, **Chike Samuel Okafor**, Chidinma

 Felicia Ajuzieogu, Shedrack Uche Madunatum(2014). Diocorea dumetorum-

 Fed Rats Exhibited Decreased Body Weight, Blood Glucose, and insulin in

 STZ-induced Diabetes. Functional Food in Health and Disease; 4(2):87-97.

24, Enemor, V.H.A, Okaka, A.N.C, and **Okafor, CS**. (2013). Free Radical Scavenging

 Potential of *Sorcocephalus lotifollus* (African peach) Leaf and Screening for

 Possible contamination with some Heavy Metals. The Bioscientist, 1(2):158-

 163.

25. **Okafor, C.S**, Igwilo, I.O. and Amoke, C.I (2013). Assessment of the Quality of

 Fresh Fish Sold in Awka Metropolis, Anambra State Nigeria. The

 Bioscientist: 1(1):86-88.

26. Igwilo , I.O., Ogokw T.J, Igwilo, S.N., Udedi, S,C, Abdulsalami, M.S. and **Okafor,**

 **CS.** (2013). The Effect of De-fatted Moringa Oleifera Seed Powder on

 Growth Rate and some Biochemical Parameters of Albino Rats.The

 Bioscientist. 1(1):28-31.

27. V.H.A Enemor, LA Afuwape, **CJ Okonkwo** and CS Okafor. (2013). Mineral,

 Vitamins And Phytochemical Profile of *Side acuta* (Broom Weed): Indices for

 the Evaluation of safety and Antioxidant Potentials of the Medicinal Plant.

 Journal of Biological and Chemical Research. 30(2)-840-848.

28. **Okafor C.S** Ugochukwu A.C, Ubaoji, K.I., Nnabuenyi, O.H and Okafor, N.C. (2013).

 The Effect of the Ethanolic of the Leaf of Chromolaena Odorata on the Packed

 Cell Volume (PCV) of Wistar Albino Rats. Research Journal of Science and IT

 Management, Singapore, 02(03):17-21.

29. **Okafor C.S**, Igbokwe .A., Ogbodo, S.O (2013). Alcohol Content of Herbal

 Preparation Sold in Awka Metropolitian Nigeria. Journal of Science and IT

 Management, Singapore, 02 (05):19.

30. **Chike S. Okafor**, Desmond Okeke, Chike C. Okoli (2013). Determination of the

Levels and Hepatic Effects of Potassium Bromte in Bread Samples Sold in Awka Metropolis, Nigeria. Research Journal of Science and IT Management, Singapore, 02(03):17-21

31. Ogbodo .S, Oti, M.E, Okeke, A.C, **Okafor, C.S**. (2013). Pneumoconiosis Among

Quarry Workers in a Metropolitan Town in Southeastern Nigeria. International Journal of Environmental Sciences 3(5):1437-1445.

32. Ogbodo, S.O., Nwagha, U.I. Chukwurah, E.F. and **Okafor, CS**. (2012). Intermittent

preventive treatment in pregnancy in malaria-endemic rural areas: Outcomes and areas of improvement American Journal of Medicine and Medical Science. 3(13): 819-824.

33. **Okafor, CS**., Okeke, CE, Omuku., P.E., Okafor, N.C (2012). Heavy Metal Contents \ Assessment of Cowhide Singed with Firewood(Bamboo),. Biochemistry: an

 Indian Journal 6(7):243-245.

34. **Okafor, CS**, Ezeonu F.C. Anajekwu. B.A (2012). The effect of potassium bromate

on the vitamin E content of wheat flour and dough. Biochemistry: An Indian Journal, 6(2):57-59.

35. **Okafor, CS**, Ezeonu F.C. Anagonye, C.O., N.C. (2011). The effect of potassium

Bromate on the packed Cell Volume (PCV) of Wistar albino rats. Biochemistry:An Indian Journal 5(5):313-315.

36. **Okafor, CS,** Ezeonu F.C.ogbodo .S. (2011). The effect of potassium bromate on the

vitamin A and iron contents of wheat flour and dough. Biochemistry: An Indian Journal, 5(4):245-248.

37. Igwilo, I.O., **Okafor, CS**., Ezeonu F.C, Udedi, S.C. Nsofor C.I. (2011). The anti-

 Nutritional factors in the stems of a local cultivar of Moringa Oleifera (LAM).

 Biochemistry. An Indian Journal, 5(4):249-252.

38. **Okafor, CS**., Igwilo, I.O. Oparaji CA., Umoguaju, U.F. Enemor, V.A (2011). Effects

of gas flaring on the environment, using the Niger Delta area of Nigeria as a case study. Environment science: An Indian Journal, 6(4): 209-211.

39. **Okafor, CS**., (2010), analysis of Locally And Industrially Made Soymilk For Lactic

 Acid and Microbial Content. African Journal of Science. 11(1): 2657-2661.

40. **Okafor, CS**., and Ozokwe, B.F. (2009): Quantitative analysis of nitrate in bottled

 water samples sold in Awka metropolis. Anachem Journal. 4(1):673-474.

41. **Okafor, CS**., (2008): Shelf life of Exposed and Unexposed lodized Salt with respect

 to their iodine contents. Anachem Journal 3(2):535-536.

42. **Okafor, CS**., (2008) Chemical Biotechnology: Siderophores and Biotechnology

 Anachem Journal 3(2): 525-536.

43. **Okafor, CS**., (2007) Estimation of vitamin A and iodine levels in flour samples and

 Table Salts. African Journal of Science. 8(2): 1940-1944.

44. **Okafor, CS**., (2006). Proximate and Microbal Analysis of some locally made Cocoa

Food Drinks Journal of Science Engineering & Technology. 13(3): 6938-6944,

**Google Scholar Web Page (file) with Chike Samuel Okafor**.

NEWS PAPER ARTICLE:

1. Okafor, CS., (July 5, 2012) Forget Vision 20-2020 Without A Healthy Population.

 Vanguard Newspaper.

**CONFERENCES ATTENDED:**

1. 11th South East Zonal Scientific Conference of Nigerian Society of Biochemistry and

 Molecular Biology **“**Nutritional Composition and in-vitro free radical

 scavenging Potentials of *Sesamum indicum* Seeds”29th 30th, August,

 2019,University Auditorium, Imo State University, Owerri.

2. 9th South East Zonal Scientific Conference of Nigerian Society of Biochemistry and

 Molecular Biology **“**A comparative study of the Proximate composition,

 aminoacid and vitamin content of battery-cage and free-range chicken

 eggs”19th July,2017,Dept. of Biochemistry, Imo State Polytechnic, Umuagwo.

3. First Annual Lecture and Conference of the Faculty of Biosciences Nnamdi Azikiwe

 University, Awka, Nigeria, July 1st, 2015.Assay of serum superoxide dismutase

 activity in rats administered with methanol extract of *Sarcocephalus latifolius*

 root extract.

4. 5th South East Zonal Scientific Conference of Nigerian Society of Biochemistry and

Molecular Biology “The Effect of exposure to Atmosphere on The Vitamin A and Vitamin E Content of Wheat Flour. 29th August, 2014, Nnamdi Azikiwe University, Awka, Nigeria.

 5 5th South East Zonal Scientific Conference of Nigerian Society of Biochemistry and

Molecular Biology “Proximate, Phytochemical, and Lipid Analyses of *Dialium guineense* leaves, 29th August, 2014, Nnamdi Azikiwe University, Awka, Nigeria.

6 Ogbunugafor H.A., Ajaghaku, A.L Ezekwesili, C.N, Okafor, CS., Igbokwe, G.E,

Ajuzieoge, C.F and Ezeonwumelu, I.J(2014). Evaluation of Dioscorea Dumetorium Feed on Antioxident Enzymes and Lipid Indices in STZ. Induced Diabetic Rats. 17th World Congress of Basic and Clinica Pharmacology, 13th -18th July, 2014 in South Africa.

7 South East Zonal Scientific Conference of Nigerian Society of Biochemistry and

Molecular Biology “The Effect of De-fatted Moringa Oleifera Seed Powder on Growth Rate and Some Biochemical Parameters of Albino Ratd “22nd-24th August, 2012, Ebonyi State University, Abakaliki, Nigeria.

8 The 2011 Annual ANACHEM Conference. “Scientific and Technology Effects of

Man’s Activities on The Environment”. 1th -4th November, 2011. Nnamdi Azikiwe University Awka.

9. The 2001 Annual ANACHEM Conference. “Estimation of Aluminium

Decomposition From Aluminium Foil into Water”. 1th- 4th November, 2011,Nnamdi Azikiwe University, Awka.

10. The 2008 Annual ANACHEM Conference. “Shelf-life of Exposed and Unexposed

iodized salt with Respect to their iodine contents”. 30th-31th October, 2008. Anambra State University Uli .

11. The 27th Annual Conference of Nigerian Society of Biochemoistry and Molecular

Biology. “Analysis of Refrideerated and Unrefridgerated Yoghurts For protein, Lactic acid , and Microbial load.” 6-9Nov.2007, FUTO, Owerri.

12. The 2007 ANACHEM Conference. “Conference Biotechnology: Siderophores And

 Biotechnology”. 26th October, 2007. Nnamdi Azikiwe University, Awka.

13. The 2007 African Education Initiative International Scientific Conference. “The

Application of Pharmacogenomics in Drug Development”. 11-14th June, 2007. Nnamdi Azikiwe University, Awka.

14. 3rd Annual National Conference of Society for Occupational Safety and

Environmental Health (SOSEH). “Environmental And Health Impacts of Burning Mosquito Coils” 8th-11th. Nov. 2006.

15. The 2005 Annual National Conference of the Federal Polytechnic Oko. “HIV/AIDS”ANY HOPE YER? 15th-18th Nov. 2005.

16. The 2004 Annual National Conference of the Federal Polytechnic Oko. “Quality

Control In Cocoa Beverages Industry-the basis for national development 18th-22 Oct. 2004.

**WORKSHOPS:**

1. Afri Hub Computer training “Computer Appreciation and Internet Utility 6th

 December, 2006 Nnamdi Azikiwe University..

2. Institute of Chartered Chemists of Nigeria (ICCON). 2nd Mandatory Training

 Workshop. WEALTH CREATION-THE CHEMIST APPROACH. 24th-25th

 August, 2010.

3. 5th South East Zonal Scientific Conference of Nigeria Society of Biochemistry And

Molecular Biology “Techniques in Bioinformatics and Computer Biochemistry-Driving Entrepreneurship Through SMF Financing. 28th August, 2014, Nnamdi Azikiwe University, Awka.

4. Postgraduate Research Workshop: Train the Trainers (2016). 31st October- 24th Nov.

 2016, Nnamdi Azikiwe University, Awka.

**ACADEMIC LEADERSHIP:**

**A). Post graduate supervision**

I was appointed M.Sc Supervisor on 4th March, 2013.

I have successfully supervised the following **M.Sc** students:.

 NAME REG. NO DATE OF FINAL DEFENCE

1.) Aguzie Nkechi. M M.Sc/2014476028F. 19/7/2017.

2.) Ifedilichukwu,Nma.H M.Sc/2014478001F. 04/8/2017.

3.) Onyewuchi Kennedy.C M.Sc/2013476011 16/10/2019

4.) Yakubu Mamman.W M.Sc/2012226007F 1/11/2019

I have successfully supervised the following **PhD** students;

 NAME REG. NO DATE OF FINAL DEFENCE

1.) Onu Awuse Chikaodi PhD/2014357003F. 18/5/2021.

2.) Oladejo Afees Adebayo PhD/2017477004F. 19/8/2021.

**B). External Examination:**

External examiner to the Department of Science Lab. Technology (Biochemistry option)

Federal Polytechnic Oko, Anambra State, Nigeria from 2016-till date.

**C). Editorship:**

i). Editor, Journal of Science and Technology Federal Polytechnic, Oko Anambra State.

ii). Editor, Bokkos Journal of Scientific Research (B- JASREP),Faculty of Natural and

 Applied Science, Plateau State University, Bokkos.

**ADMINISTRATIVE EXPERIENCE:**

1). I was the Unit Head of Biochemistry Option, Department of Science Lab.Technology, Federal Polytechnic, Oko.2004/2005 session.

 2).I piloted the affairs of the Department of Applied Biochemistry in the absence of the HOD between Monday 21st November to 5th December, 2016.

3). Chairman, Departmental Committee on Lab Resources, 2017.

**CONTRIBUTION TO UNIVERSITY/ SOCIETY:**

1.) Member, UNIZIK Electoral Commission (UNECO) 2008, for SUG Elections.

2.) Member Examination Monitoring Group for Applied Biochemistry Dept. 2011/2012 Session.

3.) Undergraduate Seminar Cordinator 2011-Till date

4.) Member Committee on Welfare for NSEMB 2014 South East Zonal Conference.

5.) Chairman, Departmental Committee on Lab Resources.2017

6). Member , Faculty of Biosciences Examination Misconduct Committee,2021.

7.) Member of the academic board of Seat of Wisdom Schools, Nkpor.

8.) Member of Board of Governors, Immaculate Heart of Mary Sister’s School of Medical

 Lab. Technician, Nkpor-Agu

9.) Exco-Member Okofia Landlords Association. Nkpor.

 .

**CONSULTANCY;**

Toxicological analysis of 3 herbal preparations undertaken for native Dr.Ezeodunejeogu for NAFDAC registration. Sept-Oct., 2008.

 **MERIT AWARD:**

1. Technological of excellence by National Association of Science Lab. Technology Students (NASTES) Federal Polytechnic Oko, Anambra State, Nigeria on 23rd July, 2008.

**MEMBERSHIP OF PERSONAL BODIES:**

1. Member of Nigerian Society of Biochemistry and Molecular Biology.

2. Member of the Association of African Biomedical Scientist, Inc.

3. Member of the Institute of Chartered Chemist of Nigeria (MICCON).

**REFERENCES:**

**PROF. F .C. EZEONU**

**DEPT. OF APPLIED BIOCHEMISTRY**

**NNAMDI AZIKIWE UNIVERSITY,**

**AWKA.**

**DR. ALLEN NWOSU**

**DEPT. OF SCI. LAB. TECH.**

**FEDERAL POLYTECHNIC OKO,**

**NIGERIA.**

**ASSOC PROF. EMEH, J.K.**

**DEPT. OF APPLIED BIOCHEMISTRY**

**NNAMDI AZIKIWE UNIVERSITY,**

**AWKA.**