

## CURRICULUM VITAE

**Full Names:** Michael Osahon Osuide

**Date & Place of Birth:** 19<sup>th</sup> May 1959, at Sapele, Delta State , NIGERIA.

**Qualifications with dates:** (i) B.Sc. Biochemistry, 1983; (ii) M.Sc. Industrial chemistry 1988;  
( ) Ph.D Environmental Chemistry, 2004

**Contacts:** **Phone:** 0803 828 79 25 ; 0807 100 21 40  
**E-mail:** [moosuide@gmail.com](mailto:moosuide@gmail.com). OR P.O. Box 556, Ekpoma

**Official:** Chemistry Department,  
Ambrose Alli University,  
Ekpoma , NIGERIA.

**Residence:** 2, Major Ano. Avenue, off Upper Afua Street  
Ekpoma, Edo State, Nigeria.

### Secondary & Tertiary Schools Attended with dates:

- (i) St Paul's Seminary (College), Benin City : 1972 – 1974.
- (ii) Annunciation Catholic College (ACC ), Irrua , Edo State: 1974 – 1976
- (iii) University of Benin, Benin City: 1980 – 1983 ; 1985 – 1988 ; 1996 – 2004.

### Positions Held / Scholarship / Awards

- i) Class Prefect, Forms I and II, 1972 & 1973 (St. Paul's Seminary, Benin City)
- ii) Assistant Senior Prefect (ASP),1975-1976 (Annun. Cath. College (ACC), Irrua, Edo State)
- iii) Awarded Rev. Fr. Francis McGrath Scholarship for best Science Student for three years Sept. 1974 - June, 1976 , tenable at ACC, Irrua, Edo State.
- iv) Awarded Prize for Best Behaved Student, 1976 at ACC, Irrua, Edo State

**Previous Appointments :** i) National Youth Service Corps (NYSC) – Graduate Asst ;  
Chemistry Department, University of Port Harcourt – 1983 /  
1984.  
ii) Master II- Ikekato Secondary Sch. Irrua, Edo State- 1987-  
1990

**Present Employment:** Academic Staff- Chemistry Department, Ambrose Alli  
University, Ekpoma NIGERIA.

**Date of Appointment:** 30<sup>th</sup> March 1990  
**Present Academic Status :** **Professor of Chemistry**, 1st October 2011.

**Administrative Positions:**

1. Departmental Examination Officer, 1992-1993
2. Departmental Colloquium Officer: 1993 -1995
3. Sub – Dean, Faculty of Natural Sciences: 2006 – 2008.
4. Departmental Postgraduate Studies Co-ordinator: 2006 – 2008; 2010 – 2011
5. Chairman – Faculty Examination Malpractice Committee: 2006 – 2008.
6. Ag. Head – Department of Chemistry: 1<sup>st</sup> Oct, 2008 – 13<sup>th</sup> Feb. 2009.  
Head – Department of Chemistry 1<sup>st</sup> Oct. 2011 - 1<sup>st</sup> Oct . 2014.
7. Member, Screening Committee on University Outreach Programmes.
8. Faculty Rep., Business Committee of Senate 2010-2011
9. Member, Ambrose All University Senate. 2008 - 2009
10. Member, Ambrose All University Senate. 2011 – till date

**Editorial Board Membership:**

1. Nigerian Annals Of Natural Sciences.
2. Advances of Natural And Applied Science Research.
3. International Journal Of Physical Sciences.
4. Editor, SAU Science-Tech Journal.

**External Examiner:** School of Science Laboratory Technology (SLT), Federal Polytechnic Auchi; 1992 – date.

**Experiences with Oil companies:**

(I) **Leo Richardson Oil Services Company:** Consultant Chemist to SPDC Forcados Terminal Laboratories during the 2005 ISO 14001 certification exercise for the Forcados Terminal.

(II) **Attendance at kick off meetings in SPDC, Port Harcourt for :**

- (a) Environmental Service Study Contract (ESSC)
- (b) Environmental Impact Assessment (EIA)
- © Environmental Monitoring.

**(III) Sabbatical Attachment :** In Shell Petroleum Development Company (SPDC), Port Harcourt / Warri.- **Research Advisor and later upgraded to Senior Research Advisor** – in Corporate Environmental Department. 6<sup>th</sup> February, 2009 – 5<sup>th</sup> February, 2010.

**Duties Performed:**

- a) On-boarding training on SPDC's literatures and processes
- b) Reviews of:
  - (i) 11 Environmental Impact Assessment (EIA) Reports
  - (ii) 16 Environmental Evaluation Report (EER)
  - (iii) 28 Environmental Monitoring Reports (ESSC)
  - (iv) 5 Post Impact Assessment (PIA) Report
- c) Participated in Writing EIA Report for Opokunou Appraisal Well.
- d) Participated in Challenge and Technical Sessions.
- e) Supervised four Shell Master's degree Interns with the following project titles :
  - (i) Environmental Leachate Evaluation at an Engineered Dump Site ( M.Sc. Geology)
  - (ii) Drill Cuttings Waste Management ( M.Sc. Geology)
  - (iii) Application of Biosolids In Soil Remediation ( M.Sc. Environmental Biology)
  - (iv) Phytoremediation of Hydrocarbons Spills Using Water plants  
( M.Sc. Environmental Biology ).
- f) Participated in the conduction of QA/QC activity in Contractors' Laboratories.
- g) Studies conducted include :
  - (i) Trend Analysis of Some Data On Environmental Quality Parameters In Ten SPDC's Facilities In the Western Division Of SPDC's operations
  - (ii) Correlation Studies On Environmental Quality Parameters Using Data on ground.
- h) Seminars Attended with Paper presentations :
  - (i) Managing Stakeholders Expectations
  - (ii) Need for PIA and EER on SPDC's Operations
  - (iii) Managing Natural Occurring Radioactive Materials (NORM) in SPDC's Operations.
  - (iv) Presented Seminar on Odidi Node Further Development Opportunity

i) Capacity Building Workshops:

- (i) Participated in the capacity building workshop for the Environmental Consultants involved in PIA and EER Studies.
- (ii) Slated as a Resource Person at Impact Assessment (IA) Capacity Building workshop for Project Engineers , Security Advisers, Line HSE and Community Relations Staff in the Western operations division.
- (iii) Participated in the review of the joining instructions for Environmental Impact Assessment Process Manual review workshop.
- (iv) Environmental Litigations- Participated in Court Proceedings on Environmental Issues.

**(IV) Other Environmental Service Contracts;**

- i) Aquatic Studies Consultant with AMACON Environmental Service Co. – SPDC Gbarain Gas flare EER (Nov. 2010)
- ii) Air Quality Consultant with Michhary & Co Nig. Ltd.SPDC Forcados PIA Study.( Dec. 2010)
- iii) Air Quality Consultant with Thermosteel Nig. Ltd .- SEPTA Energy Oron – Esit Eket Gas Pipeline EIA Study.(Feb. 2011)
- iv) Air Quality Consultant with Thermosteel Environmental Co. SEPLAT PETROLEUM DEVELOPMENT CO. OML 38 Divestment Project ( March & June, 2011)
- v) Air Quality Consultant with AMACON Environmental Service Co. SPDC Ogale – Bonny Trans Niger Pipeline Replacement EIA Project .( March & April, 2011).

**Research ( Thesis)**

- (a) Growth of *Aspergillus niger* on Hydrolysed Cassava Waste (B.Sc.(Hons) thesis). University of Benin, Benin City, Nigeria( 1983).
- (b) Sorption of Heavy Metal Ions from Aqueous Solutions Using Cellulosic Materials (M.Sc thesis). University of Benin, Benin City, Nigeria.( 1988).

- (c) Studies On the Application of Chemical Clarification and Adsorption Techniques To Selected Industrial Effluents.( Ph.D thesis ). University of Benin, Benin City, Nigeria.(2004).

### **Current Research Interest**

Major Theme: **Industrial Ecology/ Environmental Chemistry.**

Specialty: i) Water/Wastewater Treatment & Soil Remediation

ii) Sourcing Biofuels/Biodiesel from Organic Wastes /Oils/Cellulose/ Carbohydrate Materials.

iii) Solid Minerals Development (Extension of utilization).

iv) Chemo metrics & Statistical Analysis.

**Other Interest :** Chemistry Education

**Teaching Courses:** Physical, Inorganic, Organic, Industrial, Analytical and Environmental chemistry.

**Undergraduate Project & Seminar Supervision :** Supervised 233 projects and 239 seminar works from 1990 – 2016.

### **Postgraduate Supervision :**

#### **(a) Ph.D Supervision :**

- i) Application Of Thermally Treated Clays in the Tertiary Treatment Of Secondary Domestic & Industrial Effluents (On-going).

#### **(b) M.Sc Supervision :**

(i) Application Of Natural Polymers In the Tertiary Treatment of Chemically Clarified Storm water (Successfully Defended).

(ii) Some Heavy Metals Interferences On the Determination Of Biochemical Oxygen Demand Of A River Water (completed).

(iii) Studies On The Presence and the Correlation Of Nitrites and Nitrates In Waters Used In Central & Teaching Hospital In Edo and Delta States (completed).

(iv) Studies On the Correlation Of Some Organic & Inorganic Parameters In Selected Soil Samples(On-going).

(v) Studies On the Correlation Of Some Quality Parameters Of Common Effluents Of the Petroleum Industries(copleted).

(vi) Physico-chemical Characteristic of Physiologically active components of *Mormodica charantier* (Completed).

© *Postgraduate Diploma Supervision:*

- (i) Effects of Heavy Metal on BOD<sub>5</sub> Determinations in Wastewater
- (ii) Correlation of Dissolved Oxygen with Biochemical Oxygen Demand at different temperatures in a Freshwater Stream

**Publications:**

**(a) Journals Papers:**

- (1)** F.E. Okieimen. **M. O. Osuide** and C.O Oriakhi (1985): Sorption of Cadmium, Lead and Zinc ions from Aqueous solutions By Maize Cobs. *Nig. J. Appl. Sci. Sci.* 3 (1) 121 – 126
- (2)** F.E. Okieimen. V.U. Onyenkpa and **M. O. Osuide** (1986): Binding of Cadmium, Copper, Lead and Nickel ions with Melon Seed husks. *Nig. J. Appl. Sci.* 4 (2) 91 – 98
- (3)** V.U Okojie, C.L. Ndiokwere and **M.O. Osuide** (2002): Physico-Chemical characteristics of some water bodies of Esan Plateau, Edo State of Nigeria”. *Nig. J. Appl. Sci* 20.; 60 – 67.
- (4)** **M.O. Osuide**, C.M.A. Ademoroti and V.U. Okojie (2003): Integrated physico-Chemical and Fluididized Sorptive Treatment of Palm Oil Mill Processing Wastewater. *Adv. In. Nat. & App. Sci. Res* 1\_ (1). 99-119.
- (5)** C.L Ndiokwere, V.U. Okojie , and **M.O. Osuide** (2003): Uptake of Heavy metals in two vegetable crops: *Amaranthus species* (green) and *Talinum triangulae* (water leaf) grown on amended soil as determined by Atomic Absorption Spectrophotometric technique. *Adv. In. Nat. & App. Sci. Res.* 1 (1) 77 - 87
- (6)** **M.O. Osuide** and V.U. Okojie (2007): Optimum Conditions for Chemical Treatment of Natural Rubber Processing Wastewaters. *Journal of Chem.. soc. of\_Nigeria* 32 (1); 177 – 185.
- (7)** **M.O. Osuide**, A. Odia, B. Omaifuaire, B. Etaghene and M. Omoregbee. (2005): Proximate Analysis Of Some Mineral Elements in the Eggs of some common Domestic Birds. *ChemTech Journal* 1 156 – 159.
- (8)** **M.O .Osuide**; C.M.A. Ademoroti; V.U. Okojie and C. Eromosele (2005): Chemical Coagulation Characteristics of Palm Oil Mill Effluent Using Some primary coagulants. *Inter. Jour. Chem.* 15 (3) 16-22 (**Foreign**)

**(9) Osuide, M.O;** Ademoroti, C.M.A; Agbaire, P.O.; Okpamen, S.O and Esebelahie, G . A. (2005): Performance Efficiency Of A Palm Oil Mill Effluent Stabilization Pond System In Benin City, Nigeria. *ChemTech Journal 1*; 179 - 187

**(10)M.O.Osuide;** C.M.A.Ademoroti; V.U.Okojie, F. E Igbinavbiere (2006):Comparative Studies on the Adsorption Properties of Powdered Activated Carbon and Propenoic acid modified Sawdust in the Treatment of secondary Palm Oil Mill Effluent. *Pak. J. Sci. Ind. Res. 49* (5) 335 - 340 **(Foreign)**

**11)** Okojie,V.U; Ndiokwere, C.L; **Osuide, M.O;** Onogbosere, C.O and Egharevba, F (2006): Characteristics of Soil and Vegetable Crops Uptake of Heavy Metals Grown on Soils Amended with Municipal Waste Compost. *Adv. Nat. & Appl. Sci. Res. 4* ; 81- 87.

**(12)** V.U. Okojie , **M.O. Osuide**, C.L. Ndiokwere, C.O. Onogbosele. (2007): The Chemical Forms Of Eight Heavy Metals In Natural Manures Obtained From Two Dumpsites. *Inter. Jour. Chem. 17* (3) 205 -210. **(Foreign)**

**(13)**V.U.Okojie,;**M.O.Osuide**, C.L. Ndiokwere,(2007) : An Assessment of Heavy Metals Uptake By Selected Vegetable Crops Grown In Poultry Dung Amended Soils. *Inter. Jour. Chem. 17* (4) 323 -328. **(Foreign)**

**(14) M.O.Osuide**, V.U. Okogie and Ademoroti (2010): Fluidized Bed Sorption and Disinfection Of Palm Oil Mill Effluent: A Supplementary Treatment Technique for Recycle Wastewater Purification. *Inter. Jour. Chem. 20* (1) 43 - 52. **(Foreign)**

**(15)** Okojie, V.U and **Osuide, M.O** ( 2010): Phisico-Chemical Properties of Effluent obtained from Groundnut Oil Processing Factory and its Impact on Environment . *Adv. Nat. and Applied Sci. Res. 7*; 177-182.

**(16)** Obodeh , O and **Osuide, M.O.** (2010): Performance Evaluation Of Silver – based Catalytic Filter System In A Light Duty Diesel Engine. *Am. J. Sci. Ind. Res. 4* (3) 31-39 . **(Foreign)**

**(17). M. O. Osuide**, V. U Okojie, M. N. Abdulkadri and A.O. Imasuen, (2010): Solid Waste: Generation, Classification And Management. *Journal Of Academics* ; 5 (2) 200 – 205.

**(18). M. O. Osuide**, V. U Okojie, M. N. Abdulkadri, A.O. Imasuen, (2010): Solid Minerals In Edo State: Inventory, Nature, Applications And The Environment . *Journal Of Academics. 5* (2). 193 – 199.

**(19) Osuide, Michael O;** Ezeaku, Emeka; ,Nwaiwu, Peter- Claver; Akeno, Stephen E; Okojie, Victor U; Edokpa I .W (2011) Studies On the Correlation Of Some Aggregate Parameters In The Drains Of A Service Facility. *Global Jour. Of Pure & Appl. Sci. 17* (3) ; 311- 318.

(20) **M. O. Osuide**, P-C. Nwaiwu, S. E. Akeno, V.U.Okojie (2010) . Studies On the Trend Analysis Of Some Physico-Chemical Parameters Of A Recyclable Waste Depot Drain In Warri , Nigeria. *Nig. Annals of Natural Sciences*. 11,(1)

(21). **Osuide, M. O** ; Okojie, V.U and Adoghe, O.E.(2010) Sorption of Metal Ions from Aqueous Solutions on Maize Stalk Metal. *Adv. Nat. and Appl. Sci. Res.* 8 ; 264 – 271.

(22) Osaro K. Ize-Iyamu, Osayanmo Eguavoen, **Michael Osuide et al** (2011): Characterization and Treatment of Sludge from Brewery using Chitosan. *The Pacific Journal of Science and Technology* 12 (1) ; 542 - 547

(23) Okojie,V.U; **Osuide,M.O** and O. Ejemah . (2010): Effect of Piggery and Poultry dung on the physico-chemical properties of Humus soils. *Scientia Acta Xaveriana (An International Science Journa)*; 1 (2); 31-40.

24) Okogie, V.U ; **Osuide, M.O** and Nuhu, R.(2011) An assessment of some heavy metal profile of soil and their bioavailability in mushrooms from selected farmlands in Auchi , Edo State , Nigeria. *Nig. Annals of Nat. Sci.* 11

25) **Osuide, M. O.**; Nwaiwu, P. C.; Akeno, S. E. And Okojie, V.U (2012): Studies on the trend analysis of some physico-chemical parameters of a recyclable waste depot drain in Warri, Nigeria. *Nig. Anals of Nat. Sci.* 11 (2); 21- 28.

26) **Osuide, M.O**; Okojie, V.U; Unemhilin, E.D (2013): Implications of pH adjustments in the chemical treatment of palm oil mill processing wastewater using hydrated iron(III)chloride. *ChemTech journal.* 8; 51 - 59

27) **Osuide, M .O.**; Ighalo, C; Odogu, O; Odia, A and Inetianbor, **C (2013) comparative studies of cow, goat and donkey meat.** *ChemTech journal.*8, 114 – 115

28) Aishat IMASUEN, Festus INEGBEDION , Chritpher ERHABOR and **Michael OSUIDE** (2013): Isolation and Characterization of Castor Oil and its Utilization Potential in the Production of Polyurethane Foam. *Walailak J. Sci & Tech.* 11 (5); 421 – 427

#### **(b) Conference Papers Published In Proceedings:**

(29) Okojie, V. U and **Osuide, M.O** (2001): Physico-chemical Characteristics of the fruit *Nauclea latifolia*. *Proceedings of the 32nd Annual Conference – Nutrition Society of Nigeria* Ekpoma. 28<sup>th</sup> -30<sup>th</sup> November. 177 – 182.

(30) **M. O. Osuide** and V. U. Okojie (2002): A fluidized Two-Pronged Biological Clarification Step Proceeding Disinfection in the Treatment of Natural Rubber Processing

Effluent. *15<sup>th</sup> Annual Conference of Biotechnology Society of Nigeria (BSN)*. Ekpoma. 31<sup>st</sup> September – 3<sup>rd</sup> August, 2002.

**(31)** Okojie, V.U; Ndiokwere, C.L and **Osuide, M. O.** (2002): Uptake of Heavy Metal in Two Vegetable Crops: *Cortorus oltorius*(*Ewedu*) and *Telfaria occidentalis* (*Pumpkin*) Grown on Amended soil as Determined by Atomic Absorption Spectrometric Techniques– *15<sup>th</sup> Annual conference of biotechnology society of Nigeria*. (BSN). Ekpoma. 31<sup>st</sup> September – 3<sup>rd</sup> August, 2002.

### **Book Publication:**

**(32)** H.O. Edeoga , **M. O. Osuide** A. M. O. Obiazi O. A. Obanewa (1994) *In History and Philosophy of Science and Technology*(**Four Chapters**) ISBN: 978 – 32371-2-8. Pon Publishers, Nigeria.

**(33)** **M. O. Osuide** (ed) (1995) In “*Chemistry through Experiments*” ISBN: 978-32816-7-4 (Graded exercises in Practical Chemistry). Eguavoen Publishers Nigeria.

**(34)** I. O. Eguaveon, J.E. Ebhoaye, **M. O. Osuide** and F. Egharevba (1999) *In basic University chemistry (An Introduction to Chemical Concepts, Principles and their Applications)*. ISBN: 978-32816-9-0 Aniko Publishes, Nigeria.

**(35)** **M. O. Osuide** (1997) In *University Chemistry Module I (Four Chapters)*, I. O. Eguavoen (ed) ISBN: 987-2884-03-0 Chemistry Advancement Society (CAS), Ekpoma, Nigeria.

**(36)** **M.O.Osuide**, I.O.Asia and V.U.Okogie (2009) : Research Methods In Chemistry ( Guidline For Writing Research Reports) Chem.Adv.Soc.(CAS) Publications. ISBN: 978-8018-18-27-0

### **Conference Attendance with Paper Presentation**

**(1)** **M. O. Osuide** and V. U. Okojie (2001):Implication of pH Adjustment in the Chemical Treatment of Palm oil Mill Processing Wastewater using Hydrated Iron (III) Chloride: *39<sup>th</sup> Annual Conference of Science Association (SAN)*. Lagos.25<sup>th</sup> – 29<sup>th</sup> November, 2001

**(2)** Okojie, V. U and **Osuide, M.O** (2001): Physico-chemical Characteristics of the fruit *Nauclea Latifolia*. *Proceedings of the 32nd Annual Conference – Nutrition Society of Nigeria*. 177 – 182. Ekpoma.

**(3)** **M. O. Osuide** and V. U. Okojie (2002): A fluidized Two-Pronged Biological Clarification Step Proceeding Disinfection in the Treatment of Natural Rubber Processing Effluent. *15<sup>th</sup> Annual Conference of Biotechnology Society of Nigeria (BSN)*. Ekpoma. 31<sup>st</sup> September – 3<sup>rd</sup> August, 2002.

(4) Okojie, V.U; Ndiokwere, C.L and **Osuide, M. O.** (2002): Uptake of Heavy Metal in Two Vegetable Crops: *Corchorus olitorius*(Ewedu) and *Telfaria occidentalis* (Pumpkin) Grown on Amended soil as Determined by Atomic Absorption Spectrometric Techniques–15<sup>th</sup> Annual conference of biotechnology society of Nigeria. (BSN). Ekpoma. 31<sup>st</sup> September – 3<sup>rd</sup> August, 2002.

(5) **M.O. Osuide** and V.U. Okojie (2002): Sorptive Fluidization and Disinfection As Supplementary Treatment Technique for The Clarification of Palm Oil mill Processing Wastewater for Recycling. 25<sup>th</sup> International Annual conference Of the Chemical Society of Nigeria CSN. Calabar. 23<sup>rd</sup> – 27<sup>th</sup> Sept. 2002

(6) V.U. Okojie, **M.O. Osuide** and C.L Ndiokwere. (2003): Uptake of Heavy metals in two vegetable crops: Amaranthus species (green) and Talinum triangulae (water leaf) grown on amended soil as destetermined by Atomic Absorption Spectrophotometric technique. 25<sup>th</sup> International Annual conference Of the Chemical Society of Nigeria CSN. Calabar. 23<sup>rd</sup> – 27<sup>th</sup> Sept. 2002

(7) **M.O. Osuide** and V.U. Okojie (2008): Solid Minerals In Edo State: Inventory, Nature, Application and The Environment. National Universities Commission (NUC) Workshop On Solid Minerals Development In Nigeria. Under the aegis of: Alliance for Earth Sciences, Engineering, and Development In Africa (AESEDA) NIGERIA. Jos. 2<sup>nd</sup> – 5<sup>th</sup> June, 2008.

### Attendance At Workshops

i) Federal Ministry Of Education (Federal Science Equipment Centre) Workshop On ‘Repair, Maintenance & Improvement of Science Equipment. 2<sup>nd</sup> – 13<sup>th</sup> November, 1987. Delta State University, Abraka.

ii) Shell Petroleum Development Company Of Nigeria Ltd – Impact Assessment (Environment ,Social & Health) Training Course./ Capacity Building. 7<sup>th</sup> – 8<sup>th</sup> December, 2009.

iii) Institute Of Public Analyst Of Nigeria (IPAN) 11<sup>th</sup> Mandatory Training Workshop On ‘ The Use Of High Precision Instruments in Laboratory Analysis ‘ . 27<sup>th</sup> – 28<sup>th</sup> April, 2010. Lagos.

iv) Institute Of Public Analyst Of Nigeria (IPAN). 12<sup>th</sup> Mandatory Training Workshop On ‘Health & Safety-What Role for Microbes and the Analyst‘?. 8<sup>th</sup> – 9<sup>th</sup> November, 2010. Lagos.

v) Institute Of Public Analyst Of Nigeria (IPAN) In collaboration with Nigerian Medicinal Plants Development Company (NMPDC), National Agency for Food and Drug Administration and Control (NAFDAC) and National Institute for Pharmaceutical Research and Development (NIPRD) 13<sup>th</sup> Training Workshop, On ‘ Research, Development &

Regulation of Medicinal Plant Products – A Potential Non-Oil Resource for Nigeria.’ 3rd – 4<sup>th</sup> May, 2011. Lagos.

vi) Institute Of Public Analyst Of Nigeria (IPAN). 14<sup>th</sup> Mandatory Training Workshop On ‘Role Of Public Analyst Towards The Achievements Of The Millennium Development Goals.’ 15<sup>th</sup> – 16<sup>th</sup> November, 2011. Lagos.

vii) A Two-Day Training Workshop on Proposal Writing For Grants And Grant Management (Funded By Ford Foundation) at Samuel Adegboyega University , Ogwa Edo State Nigeria; 13<sup>th</sup> – 14<sup>th</sup> August, 2014.

#### **Membership of Learned Society:**

- (i) Member of International Water Association (IWA) London .
- (ii) Member of Chemical Society of Nigeria (CSN).
- (iii) Member , Chemistry Advancement Society ,Nigeria (CAS).
- (iv) Member, Institute Of Public Analyst Of Nigeria (IPAN). Reg. No. 00600
- (v) Member, Nigeria Environmental Society (NES).

#### **REFEREES**

- 1) Prof. C.M.A. Ademoroti,  
Chemistry Department, University Of Benin, Benin City  
NIGERIA  
E-mail:chriscacia@yahoo.com
- 2) Prof. F. E. Okieimen,  
Chemistry Department, University Of Benin, Benin City  
NIGERIA  
E-mail: fexokieimen@yahoo.com
- 4) Barr. C. A. Osuide,  
School of Health Technology,  
University of Benin Teaching Hospital,  
Benin City.

Signed-----

**Michael O. Osuide** *Ph.D MIWA MCSN MIPAN MNES*