

**A**

**PROFILE OF DR. ESSIEN EDEM  
UDO  
DEPARTMENT OF SCIENCE  
EDUCATION  
FACULTY OF EDUCATION  
UNIVERSITY OF UYO, UYO  
AKWA IBOM STATE, NIGERIA**

# CURRICULUM VITAE

## A. PERSONAL DATA:

1. **NAME:** - Udo, Essien Edem
2. **PLACE OF BIRTH:** - Mbiabong Edem Edik, Ibiono Ibom
3. **DATE OF BIRTH:** - 22<sup>ND</sup> July, 1963
4. **NATIONALITY:** - Nigerian
5. **PERMANENT HOME ADDRESS:** No. 10 Ikpedip Street, Afaha Oku, Uyo
6. **CURRENT ADDRESS:** - Science Education Dept. Uniuyo, Uyo
7. **PHONE NUMBER:** - 08023325043/07064541905
8. **E-MAIL ADDRESS:** - essien\_udo63@yahoo.com
9. **MARITAL STATUS:** - Married
10. **NUMBER AND AGES OF CHILDREN:** 4; (22, 27, 28&29years)
11. **DATE OF PRESENT APPOINTMENT/  
ASSUMPTION OF DUTY:** - 27<sup>th</sup> June, 2014/1st July, 2014.
12. **STATUS/RANK AT FIRST APPOINTMENT:** - Lecturer II
13. **PRESENT STATUS:** - Senior Lecturer
14. **DATE OF LAST PROMOTION:** - 1<sup>st</sup>, October 2020
15. **DATE OF CONFIRMATION OF APPOINTMENT:** 30<sup>th</sup> June, 2016
16. **DEPARTMENT/UNIT:-** Science Education/Integrated Science
17. **FACULTY:** - Education
18. **TRANSFER OF SERVICE:-** Nil

## B. ACADEMIC AND PROFESSIONAL BACKGROUND:

### 19. Higher Educational Institutions Attended with Dates

- (i) University of Uyo, Uyo - 2014-2017
- (ii) University of Uyo, Uyo - 2003-2005
- (ii) University of Benin, Benin City - 1983-1986
- (iii) College of Education, Uyo - 1978-1981

### 20. Academic Qualifications with Dates

- (i) Doctor of Philosophy (PhD) in Integrated Science Education- 2017
- (ii) Master of Science (MSc) in Chemistry - 2005
- (iii) Bachelor of Science (BSc) in Chemistry Education - 1986
- (iv) Nigerian Certificate in Education (NCE) in Chemistry/Mathematics- 1981

**21. AREA OF SPECIALIZATION:** Science Education (Integrated Science)

**22. DISTINCTION AND AWARDS WITH DATES**

- (i) Best Science Teacher in Nigeria for Science Teachers Association of Nigeria (STAN) - 1991
- (ii) First Awardee as MSTAN in the Country - 1991
- (iii) Award of excellence performance in UNESCO Activities - 1992
- (iv) Honour Award for Excellent Performance in Uyo Zonal Youth Festival - 1992
- (V) Best Junior Engineers, Technician and Science Teacher Exhibitor. - 1996
- (vi). Honour as an Associate of the Christian Workers International - 1997
- (vii) Fellow of Science Teachers Association of Nigeria (FSTAN) - 2007
- (viii) Silver Medalist for Nigeria in the science project exhibited In South Africa. - 2003
- (ix) Award of Excellence Performance in National Science Teacher Association - 2002
- (x) Award of Excellence Performance in STAN activities In Akwa Ibom state - 2004
- (xi) Honour as the Best Teacher in Mobil Pegasus Schools Consistently for ten (10) years - 2006
- (xii) Award of Excellence Performance in the Regional Conference of International Council of Associations for Science Education (ICASE) - 2009
- (xiii) Honour as Patrons of many Unions and Associations, JETS, Karate, Brigade, Man 'O' war, and PYPAN
- (xiv) Award of Excellence by the PYPAN of the Presbyterian Church Of Nigeria - 2018
- (xv) Award as a well performed Staff Adviser in Science Education dept. Faculty of Education, University of Uyo, Uyo - 2018
- (xvi) Award as the best performed Teaching Practice Coordinator by the Students in the Faculty of Education, Uniuyo - 2019

## **C. WORK EXPERIENCE WITH DATES:**

### **23. Work Experience before Present Appointment**

- i. Senior Science Master Immaculate Conception Secondary School, Itak - 1981-1990
- ii. Part-time Chemistry Lecturer, College of Education, Afaha Nsit, AKS. - 1984-1994
- iii. Science Coordinator, Eastern States for the National Teacher Institute (NTI) Kaduna. - 1986-1994
- iv. Chemistry Lecturer School of Art and Science, Uyo - 1991
- v. Principal Science Master Senior Science College Abak - Oct. 1991-1992
- vi. Vice Principal, Secondary School Aka Offot Uyo - Oct. 1992-1996
- vii. Principal Science Teacher/Head of Department of Science, Mobil Pegasus Schools, Eket - Oct. 1996-2013
- viii. Coordinator of Science/ Jets Activities in Mobil Pegasus Schools. - Oct. 1996-2013
- ix. National Science Fair Coordinator for Science Activities in Nigeria for STAN - 2000-2003
- x. Facilitator, Primary Science Teaching Improvement Workshop for Primary School Teachers in Akwa Ibom State - June 2001
- xi. Resource Person for a Two Day Improvement Training Workshop for Primary School Teachers in Akwa Ibom - Sept. 2001
- xii. National Chairman Integrated Science Panel of STAN - 2004-2008
- xiii. Chairman Writing Team of STAN Basic Science Series - 2006
- xiv. Chairman Writing Team for Nursery Science Series Books for Schools - 2011
- xv. Resource Person for a day Improvement Training Workshop For Chemistry Teachers in Akwa Ibom State - October, 2018
- xvi. Study Centre Manager, National Teachers Institute (NTI), BED Programme, Uyo Study Centre - 2020-2025

## **24. Work Experience in the University:**

### **(i). COURSES TAUGHT WITH DATES:**

SED 214: History and Philosophy of Int. Sc. Edu. (2CH)	-	2014-2020
SED314: African Cosmology and Integrated Science (3CH)	-	2014-2019
SED 411: Practices in Integration of Science (3CH)	-	2014-2021
SED 323: Laboratory and Workshop Practice (3CH)	-	2016-2021
SED324: School Science Laboratory (2CH)	-	2014-2021
SED225: Nigerian Integrated Science Curriculum (3CH)	-	2016-2021
SED422: Int Sc. Curr., Design and Implementation (3CH)	-	2014-2021
SED622: Resources and Instructional Strategies (3CH)	-	2020-2021
SED623: difficult concepts in integrated science (3CH)	-	2020-2021
SED 621: Interaction of Science, Technology and Society (3CH)	-	2020- 2021

### **(ii). COURSES SUPERVISED**

EDU300: Teaching Practice (3CH)	-	2014-till date
EDU400: Teaching Practice (3CH)	-	2014-till date
EDU421: Seminar in Integrated Science Education (3CH)	-	2014-till date
EDU 499: Project in Science Education (4CH)	-	2014-till date
EDU 631: PG Seminar in Science Education	-	2020 till date
EDU 699: Dissertation in Science Education	-	2020 till date

## **D. RESPONSIBILITIES**

- i. Secretary Academic Staff of the Department - 2015-2021
- ii. Departmental Staff Adviser. - 2015-2021
- iii. Post Graduate Education Students Adviser - 2016-2021
- iv. Supervising students' projects, seminars and teaching practice.
- v. Coordinator, Teaching Practice Unit, Faculty of Education. - 2018-till date

## **E. COMMITTEE/COMMUNITY SERVICE WITHIN THE UNIVERSITY**

- i. Member of the central time table committee of the University - 2016 till date
- ii. Member of the accreditation committee for the department in charge of the physical science laboratory and Integrated Science Laboratory - 2016
- iii. Chairman, Teaching Practice Unit, Faculty of Education, Uniuyo.- 2018 till date
- iv. Member, University of Uyo Convocation Committee (Transport) - 2019

## **F. NATIONAL/STATE/COMMUNITY SERVICE OUTSIDE THE UNIVERSITY**

- i. Secretary General of the National Association of Cross River State Students, University of Benin - 1984-1986
- ii. Secretary General of Mbiabong Development Association of Ibiono Ibom Local Government Area - 1981-1996
- iii. Secretary General of the State Man 'O' War - 1992-1994
- iv. Patrons to many Unions and Associations
- v. President in-charge of all Ibiono Ibom Indigenes living in Eket and its Environs. - 2000-2006
- vi. President Uyo Presbytery Men Christian Association of Nigeria of the Presbyterian Church of Nigeria - 2005-2008
- vii. Secretary General, Ibiono Ibom Welfare and Development Union (IWADU), National - 2006-2009
- viii. Secretary Board of Trustees of IWADU - 2006-2009
- ix. Vice President General, Ibiono Ibom Welfare and Development Union, National - 2010-2013
- x. Chairman, Presbyterian Ruling Elders Fellowship of Nigeria (PREFON), Akwa Synod - 2009-2015
- xi. National Chairman STAN Science Quiz and Fair Bureau- 2018-2020

- xii. National Science Quiz Master for STAN, Broadcast by NTA - 2014-2020
- xiii. Presenter of Academic Pursuit in AKBC - 2017-2020
- xiv. President of Uyo Metropolitan Lions Club - 1984-1986
- xv. Blue Belter of the International Association of Karate - 1985 till date
- xvii. Unit Secretary of Special Marshal of the FRSC - 2007-2015
- xviii. Unit Coordinator of Special Marshal of the FRSC, Unit 10 - 2021-till date
- xix. Chairman Patrons' Committee, Uyo North Battalion Council - 2018-till date
- xx. Organizer/Quiz Master for Inter Schools, School Quiz in Uyo Senatorial District - 2021

## **G. MEMBERSHIP OF PROFESSIONAL BODIES**

- i. Fellow Science Teachers Association of Nigeria (FSTAN).
- ii. Member Mathematics Association of Nigeria(MAN)
- iii. Member Chemical Society of Nigeria
- iv. Member National Science Teachers Association(NSTA)
- v. Member International Council of Association for Science Education (ICASE)

## **H. PUBLICATIONS**

### **(25.) PROJECT/THESIS/DISSERTATION**

- i. Udo, E. E. (1981). Preparation of acid/base indicator from locally sourced materials. **NCE Project**. College of Education, Uyo.
- ii. Udo, E. E. (1986). Students Perception of their Teachers' attitude towards Teaching of Chemistry in Oredo L.G.A of Bendel State. **B.Ed.** Chemistry Project. University of Benin, Benin City.
- iii. Udo, E. E. (2004). Comparative Studies of Concentrations of some Metals in Fish, Water and Sediment for Ikot Abasi River in Ikot Abasi Local Government Area of Akwa Ibom State. **M.Sc** Dissertation, UniUyo.

- iv. Udo, E. E. (2017). Effects of Cooperative and Collaborative Learning Strategies on upper basic students' performance and retention in Basic Science and Technology. **Ph.D.** Thesis. University of Uyo, Uyo.

## **I. PUBLICATIONS BEFORE PROMOTION**

### **26. Journal Articles**

1. Udo E. E. (2015). Instructional Approach to entrepreneurship Teaching of Basic Science and Technology at the Basic Education Level. *Journal of Education, University of Uyo, Uyo, 8, (1), 204-210.*
2. Udo E. E. (2015) Effect of Class Groupings on Students' Academic Performance and Retention in Junior Secondary School in Basic Science. *Ireland International Journal on Education, 9, (4), 240 - 249. IRELAND (DUBLIN).*
3. Udo E. E. (2016). Effect of Peer Tutoring on Students' Academic Performance and Retention in Junior Secondary School Basic Science in Akwa Ibom State, Nigeria. *International Journal of Educational Benchmark (IJEB), 3, (1), 91 -100.*
4. Udo, E.E. (2016). Creativity in Science, Technology and Mathematics (STM) Education: A Gateway to Empowering Youth for self- reliance. *Journal of Education, Uniuyo 9, (1), 257 - 262.*
5. Udo, E. E. (2016). The Role of Basic Science Curriculum in the Amelioration of Economic Depression in Nigeria: Implication for Teacher Preparation. *International Journal of Research in Basic and Lifelong Education, Volume 5, (No. 1 and 2), 223 -229.*
6. Udo, E. E. (2016). Teaching the Production of different types of Soap using Local Resource Materials to Basic Science Teachers. *STAN Journal of Education, 7, (1), 1-8.*
7. Udoh, N. M., Ado, I. B. and Udo, E. E. (2017). Science Teachers' Level of Awareness and Utilization of Blended Learning Approach for Effective STEM Teaching in Uyo Municipality, Akwa Ibom State. *Journal of Science Education, STAN 60<sup>th</sup> Conference, (18), 136-142.*



## J. PUBLICATIONS AFTER LAST PROMOTION

8. Udo E. E. (2018). Infusion of Some Indigenous Practices in the Society into the Teaching and Learning of Basic Science and Technology: A Veritable Tool for Functional Basic Education in Akwa Ibom State, Nigeria. *Journal of Education, University of Uyo, 10, (1), 32 - 37.*
9. Udo E. E. (2019). Effects of Acronym and Expression Mnemonics on Science Students' Academic Achievement and Retention in Animal Hormones in Uyo Municipality. *Nigerian Journal of Science and Science Education, 8, (3), 85-105.*
10. Udo E. E. and Babayemi, J. O. (2019). Pedagogical and Content Knowledge Challenges of Integrated Science Pre- service Teachers: Implication for Curriculum Implementation for National Development. *Journal of Education, University of Uyo, 11, (2), 220-227.*
10. Udo E. E. (2019). Impact of Cooperative learning on Junior Secondary School Students' Achievement in Basic Science and Technology (BST) in Akwa Ibom State, Nigeria. *Journal of Education and Practice, 10, (14), 132-138.India*
11. Udo E. E. (2019). Efficacious Use of Micro Teaching as a Preparatory Technique\Procedure for Quality Teachers in Akwa Ibom State, Nigeria. *International Journal of Education and Evaluation, 5, (5), 101-112. Kenya.*
12. Udo, E.E. (2019). Methods of Teaching Science: Exploring the Surrounding. *STAN Basic Science and Technology Journal, 10, (1), 89-105.*
13. Udo, E. E. and Edet, A. O. (2019). Innovation in Basic Science and Technology (BST) Education through Effective Pedagogical Principles. *Journal of Science Education, STAN 60<sup>th</sup> Annual Conference, (28), 273 - 279.*
14. Udo E. E. (2020). Communicating Basic Science and Technology to Lower and Middle Basic Science Education Pupils through Effective use of Electronic Smart Board and Iconic Model: Implications for the Teacher. *Journal of Sustainable Education (JOSE), University of Uyo, 10, (1), 45-52.*

15. Udo E. E. (2020). Enhancing Hygienic Practices among Food Vendors in Primary Schools in Uyo Local Government Area, Akwa Ibom State, Nigeria. *International Journal of Advancement in Education, Management, Science and Technology*, 3, (1), 124-131. **California.**
16. Udo, E. E. (2020). Effect of Concept Mapping on Academic Achievement of Upper Basic Students in Basic Science in Uyo, Akwa Ibom state. Nigeria. *International Journal of Eminent Scholars*, 6, (1), 94-101. **Europe.**
17. Udo, E. E. and Eberechukwu, D. M. (2020). An Empirical Research on Covid-19 Pandemic as a threat to human health: A case study of Science Teachers in Uyo Metropolis. *World Atlas International Journal of Education and Management*, 3, (1), 66-78. **New York City.**
18. Udo, E. E., and Nkang, I. E. (2020). Application of Online Platform in Mitigating Covid-19 Pandemic Effect on Secondary School Administration for Effective Teaching and Learning in Akwa Ibom State. *Universal Journal of Education, Science and Technology*, 4, (1), 11-24. **United Kingdom.**
19. Udo, E. E. and Essien, E. C. (2021). Assessment of Women's exploits in Science Education : An empirical Survey of the Views of Science Educators in Akwa Ibom State. *International Journal of Research in Education, Science and Technology*. 4(1):145-154 **California.**

### **(27) Books/Monograph:**

1. Udo, E. E. (2006). Coping with the problem of large classes practical work in Primary Science, Uyo: Guidepost Publishers Press.
2. Udo, E. E. (2015). Centered Approach (INTEBLECEA) in teaching the concept of weather to Pupils in Primary Schools, Ibiono Ibom: E & P Computer Press.

### **(28) Book Chapters:**

1. Udo, E. E. (2006). STAN Primary Science (2<sup>nd</sup> Ed,) Books One, two and three, Modules 3, 4 and 5: Using the senses; sense of hearing, smell, Taste and Touch; Water and Measurement, Ibadan, University Press PLC.

2. Udo, E. E. (2006). STAN Primary Science Workbooks 1 and 2, Modules 3,4, and 5, Ibadan, University Press PLC.
3. Udo, E. E. (2006). STAN Primary Science, Teachers' Guide, Volume One, Ibadan, University Press PLC.
4. Udo, E.E. (2006). STAN Primary Science (2<sup>nd</sup> Ed,), Book 4, Modules 3 and 12: Colour and Measurements; Ibadan: University Press PLC.
5. Udo, E. E. (2006). STAN Primary Science Students 'Workbook 4, Modules 3 and 12, Ibadan: University Press PLC.
6. Udo, E. E. (2006). STAN Primary Science, Teachers' Guide, Volume 2, Ibadan, University Press PLC.
7. Udo, E. E. (2006). STAN Primary Science (2<sup>nd</sup> Ed,), Book 5, Modules 2 and 8, Ibadan, University Press PLC.
8. Udo, E. E. (2006). STAN Primary Science Students' Workbook 5, Modules 2 and 8, Ibadan, University Press PLC.
9. Udo, E. E. (2006). STAN Primary Science (2<sup>nd</sup> Ed,), Book 6, Modules 9 and 15: Minerals; Our Earth and the Sky, Ibadan, University Press PLC.
10. Udo, E. E. (2006). STAN Primary Science Students' Workbook 6, Modules 9 and 15, Ibadan, University Press PLC.
11. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Books 1 and 2, Module 10, Theme 5, Modules 14 and 15: Simple Machine Group Similar Objects and Ordering Objects, Ibadan : University Press PLC.
12. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Students' Workbooks 1 and 2, Theme 5, Module 14 and 15, Ibadan, University Press PLC.
13. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Teachers' Guide, Volume 1, Ibadan, University Press PLC.

14. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Book 4, Theme 2, Module 9,12 and 13; The human body (feeding system), Food and Balanced Diet, Ibadan, University Press PLC.
15. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Students' Workbook 4, Theme 2, Modules 9, 12 and 13. Ibadan, University Press PLC.
16. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Book 5, Theme 1, Module 3: Waste and waste disposal, Ibadan, University Press PLC.
17. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Students Workbook 5, Theme 1, Module 3, Ibadan, University Press PLC.
18. Udo, E. E. (2010). STAN, Basic Science and Technology for Primary Schools, Teachers Guide, Volume 2, Ibadan, University Press PLC.
19. Udo, E. E. (2016). STAN, Basic Science and Technology for Primary Schools, Books 1 and 2, Theme 1, Chapter 1; Theme 4, Chapter 9: The Senses, Forms of energy (sound) Ibadan, University Press PLC.
20. Udo, E. E. (2016). STAN, Basic Science and Technology for Primary Schools. Books 3 and 4, Theme 1, Chapter 2; Theme 2, Chapter 6: Our Weather, Water, Ibadan, University Press PLC.
21. Udo, E. E. (2016). STAN, Basic Science and Technology for Primary Schools, Book 5, Theme 2, Chapter 7: Acids and Bases, Ibadan, University Press PLC.

## **K. EXHIBITIONS**

- (i) Production of Ceiling Board using locally sourced Materials; Project Exhibited during National Science Competition. (Jos 2002)
- (ii) Production of Water based Paint using Local Materials; project work Exhibited in South Africa (2003). It won several medal to Nigeria.

## **L. CONFERENCES/WORKSHOPS WITH PAPERS PRESENTED WITH DATES:**

1. Practical Ability Skills (PAS) in the Teaching of Integrated Science; JAEWP Publications, University of Calabar, Cross River State. 17<sup>th</sup> – 24<sup>th</sup> June, 2002.

### **Paper Presented**

- The teaching of Science through games.1-9.
2. The influence of Tradition/Culture in the Teaching and Learning of Science, Queen’s School Enugu, Enugu State. 3<sup>rd</sup> – 7<sup>th</sup> June, 2003.
3. Environment as a Resource for teaching Primary Science. Federal Government girl’s college, Jalingo, Taraba State. April 21-25, 2004.

### **Paper Presented**

- Making the learning of Primary Science delightful within our environment. 15-22.
4. New Technologies and Primary Science Teaching and Learning. Oyemekun Grammar School, Akure, Ondo State. 5<sup>th</sup> – 9<sup>th</sup> April, 2005.

### **Paper Presented**

- Resource materials and strategies: A technological tool for effective teaching and learning of Primary Science.19-28.
5. Science, Technology and Mathematics (STM) Education and Professionalism. Jos, Plateau State. 15<sup>th</sup> -20<sup>th</sup> August, 2005.
6. Resources for Science, Technology and Mathematics Education.47<sup>th</sup> STAN Annual conference. 21st-27<sup>th</sup>July, 2006.

### **Paper Presented**

- Udo, E. E. (2006).Resources as an enhancer for effective teaching and learning of Science.335-338.
7. Hands-On-Minds-On strategies in the teaching of force. Ilorin, Kwara State. 16<sup>th</sup>-19<sup>th</sup> May, 2007.

### **Paper Presented**

- Strategies for effective teaching of force in Primary Science through the participatory learning approach. 1-10.
8. Effective Teaching and Learning of Simple Machines in Primary Schools.

Uyo, Akwa Ibom State.

17<sup>th</sup>-20<sup>th</sup> June, 2008.

### **Paper Presented**

Resource materials for effective teaching and learning of simple machines in Primary Schools.10-17.

9. Curriculum Development in Science, Technology and Mathematics (STM) Education. Yenagoa, Bayelsa State. STAN 49<sup>TH</sup> annual conference. 25-30 August 2008.

### **Paper Presented**

Activity techniques and its implications for Science Curriculum innovation in Nigeria.36-40.

10. Strategies for Teaching Magnetism in Primary School. St. John's College, Jos, Plateau State. 14<sup>th</sup>-18<sup>th</sup> April, 2009.

### **Paper Presented**

Strategies for teaching Magnetism in Primary School.21-26.

11. Environmental changes-meaning, types; pollution and erosion, Ebonyi, Ebonyi State. 19<sup>th</sup>-23<sup>rd</sup> August, 2011.
12. Attaining the MDGs through STEM Education, Uyo, Akwa Ibom State. 11<sup>th</sup> - 15<sup>th</sup> August, 2015.
13. Exploring our surroundings, weather and environmental changes. Enugu, Enugu State. 11-14 May, 2015.
14. Terrorism: A Threat to global peace and security, its Educational imperatives. Calabar, Cross River State. 15-17 Sept. 2015.
15. Entrepreneurial Education in Nigeria: Issues and Challenges. 27-29 Sept.,2015.
16. Concepts of Water, Air, Acids, Bases and Soap. STAN Basic Science and Technology workshop. Uyo, Akwa Ibom State. 15-21,May, 2016.

### **Paper Presented**

The concept of Soap and its production.1-8.

17. Communication Technologies and STEM Education. STAN Basic Science and Technology workshop. Ado Ekiti. 14<sup>th</sup>-19<sup>th</sup> August, 2016.

### **Paper Presented**

The use of concept mapping in teaching animals and human body to Basic Science.

18. Education and Economic diversification for self-reliance in Nigeria. Uyo, Akwa Ibom. 7-10 Sept.2016.
19. STEM and Society. River State University, Port Harcourt, River State. STAN 60<sup>th</sup> annual conference. August 17-22, 2017.

**Paper Presented**

Science teachers' level of awareness and utilization of blended learning approach for effective STEM teaching in Uyo Municipality, Akwa Ibom State.136-142.

20. Beyond literacy and numeracy: Implication for functional Education. Uyo, Akwa Ibom, 16-18 Oct., 2017.
21. STEM and Economic Growth. Katsina State. August 13-18, 2018.
22. Utilizing Educational instrument for Nigeria's National Development. Uyo, Akwa Ibom 16<sup>th</sup>-19<sup>th</sup> Sept. 2018.
23. Festival of Chemistry (Hands-on-experiment in chemistry). Civil Service Auditorium, Uyo, Akwa Ibom State. November 15, 2018.
24. Innovation in STEM Education. Kano, Kano State. STAN 60<sup>TH</sup> annual Conference. 19-24 August 2019.

**Paper Presented**

Innovation in Basic Science and Technology education through effective pedagogical principles in Nigeria. 273-279.

**M. ANY OTHER RELEVANT INFORMATION**

**(i) Personal Skills:**

Good communication skills, Excellent inter relations, Highly reliable, Excellent teaching and research ability, High level of initiative, Good co-ordination and Excellent administrative skills.

(ii)Visited California in USA in 2002 and South Africa in 2003 for Science activities.

**SIGNATURE AND DATE** \_\_\_\_\_