

**Obot Jackson Ekwere, Ph. D.**  
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**OBJECTIVE:** To obtain a position where my education and background will be maximized fully for professional and personal advancement.

### **PROFILE**

- A highly motivated, analytical and goal-oriented professional with more than 12 years of educational research and teaching marked by effective human relations and operational efficiency
- Creative individual capable of constructing strategies for solving educational and technological problems in areas of Science Education and Research
- Proficient in coordinating multiple tasks, clarifying difficult concepts and motivating students to attain goals in an efficient and timely manner as well as implement viable solutions to scientific problems

### **EDUCATION**

**Ph. D. Science Education (Chemistry)**, University of Ibadan, Oyo State, Nigeria, 1998

Thesis: “Metacognitive Instructional Strategies and Students’ Concept Attainment in, and Attitudes Towards Chemistry in Ibadan Municipality”

**M.ED. Teacher Education (Science Education)**, University of Ibadan, Nigeria, 1990

Thesis: “Effects of Schema Activation and Concept Attainment Instructional Models on Secondary School Students’ Attainment of the Mole Concept”

**B. Ed., Science Education (Chemistry)**, Ahmadu Bello University, Zaria, Nigeria, 1985

Project: “A Survey of Scientific Attitudes Possessed by Students in Selected Secondary Schools in Kano Metropolis”

### **LICENSURE**

**Nigeria Certificate in Education (Biology and Chemistry)**, Advanced Teachers College/Ahmadu Bello University, Kano, Nigeria, 1982

### **AREAS OF SPECIALIZATION**

- Teacher Education
- Science Education (Chemistry)

## **PROFESSIONAL ACADEMIC EXPERIENCE**

Sept 2010- Present: **Adjunct Professor**, Department of Chemistry; Texas Southern University, Houston, Texas

### **Teaching Assignments and Related Duties:**

- General Chemistry I course
- General Chemistry II course
- Organic Chemistry I course
- Keeping 6 hours of office hours per week
- Preparing course materials and lectures using Power Point, Excel and Microsoft Word, Texts and other required materials
- Using Blackboard and Mastering Chemistry as e-Education platforms designed for teaching and learning: Posting of Syllabus, Course information, Course documents, Notes, Assignments, and Announcements Reporting Students' Tests, Quizzes and Assignment Grades on Blackboard regularly
- Computing daily attendance grades
- Assessing assigned courses: Grading of students papers for Exams, Assignments and Quizzes, as well as Computing tests and assignment grades weekly
- Using e-mail and other electronic forms of communication with students where appropriate.
- Serve as the Training Coordinator for the Global Learning and Observations to Benefit the Environment(GLOBE) program
- Plan and Execute Teacher Training and Train-the-Trainer Workshops in GLOBE program

Sept 2009 – Aug 2010: **Visiting Assistant Professor, Adjunct Professor**, Department of Chemistry; Department of Curriculum and Instruction; **Research Associate**, Center for STEM Education and Outreach; Texas Southern University, Houston, Texas

### **Teaching and Research Assignments:**

- General Chemistry I course
- General Chemistry II course
- EDCI 430 course for pre-service teachers in the College of Education
- Developed the Science curriculum for Integrated Science, Mathematics, and Health (EDCI 430) course using an interdisciplinary approach for teaching and learning of science concepts in K-8 classrooms adopting the 5E (Explore, Engage, Explain, Elaborate and Evaluate) learning modules.
- Observed candidate teachers on clinical practice (student teaching)

- Participated in faculty research project (Achieving-the-Dream), using Metacognitive instructional strategies for students' concept attainment in entry level college Chemistry.
- Serve as the Training Coordinator for the Global Learning and Observations to Benefit the Environment(GLOBE) program
- Planned and Executed Teacher Training and Train-the-Trainer Workshops in GLOBE program
- Contributed immensely to proposal development that led to the establishment of the Center for STEM Education and Outreach (C-SEO)
- Provided project management support in the Center for STEM Education and Outreach

Jan 2009-May 2009: **Research Associate**, Department of Chemistry and Department of Curriculum and Instruction, Texas Southern University, Houston, Texas

- Provided project management support to the *Social Networks for Earth Systems Understanding GLOBE HBCU Initiative* project and Assist Project Investigator.
- Supported development of 3 new courses (Campus Ecology, Hurricane Ike, and Carbohydrate Economy) for Earth System Science Education Alliance (ESSEA) project
- Assess and engage TSU distance course delivery assets
- Served as the Training Coordinator for the Global Learning and Observations to Benefit the Environment(GLOBE) program; Planned and Executed Teacher Training and Train-the-Trainer Workshops
- Served as Lead on Science Technology Engineering and Mathematics (STEM) Curriculum Development for TSU Laboratory Charter School
- Observed candidate teachers on clinical practice (student teaching)
- Tutored students for Texas Higher Education Assessment(THEA) and Texas Examination of Educator Standards (TEXES)
- Performed additional tasks, including assisting to write grant proposals, attending meetings to represent the university, write reports, communicate with participating institutional representatives as projects evolved.

Oct 2008- Dec 2008: **Laboratory Assistant**, Department of Chemistry and **Research Associate**, HBCU/GLOBE-centric Earth System Science (ESSEA) teaching and research project, Texas Southern University, Houston, Texas

- Taught Chemistry Laboratory Course
- Provided project management support to the *Social Networks for Earth Systems Understanding GLOBE HBCU Initiative* project and assisted Project Investigator.

Responsible for carrying out work elements as itemized below:

- Develop and gain approval for a Revised Work Plan
- Assess and engage TSU distance course delivery assets

- Review and update Participating Institution Data Base
- Revise and distribute Participating Institutional Survey (include proposed courses)
- Conduct survey analysis
- Develop working knowledge of ESSEA course web site and integration with TSU Blackboard
- Provide support for development of Course #1 for offering in Spring 2009
- Support Faculty Participants' training in online course development
- Assist in planning the GLOBE Train-the-Trainer Work shop for February 2009
- Support development of 3 new courses (Campus Ecology, Hurricane Ike, and Carbohydrate Economy).
- Perform additional tasks, including attend meetings, write reports, assist with IT tasks, communicate with Co-PIs and participating institutional representatives as the project evolves.

Jun 2007-Jul 2007: **Summer Faculty**, Department of Biology, Texas Southern University, Houston, Texas

- Taught Biology Lecture courses

Jan 2004- Sep 2007: **Visiting Assistant Professor**, Department of Biology, Texas Southern University, Houston, Texas

- Taught Biology Lecture courses (Majors and Non-majors Courses)
- Taught Biology Laboratory courses (Non-majors Course)

1. Taught Biology courses to 500 – 800 undergraduates per semester in 12 credit hours (6 hours of classroom and 6 hours of lab), Kept 8 hours of office hours per week, Prepared course materials and lectures using Power Point, Excel and Microsoft Word, Texts and other required materials; Used Blackboard- an e-Education platform designed for teaching and learning: Posting of Syllabus, Course information, Course documents, Notes, Assignments, and Announcements Reporting Students' Tests, Quizzes and Assignment Grades on Blackboard regularly; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for Exams, Assignments and Quizzes, as well as Computing tests and assignment grades weekly; Used e-mail and other electronic forms of communication with students where appropriate.

2. Served on Departmental and University Committees

(a) Student development and student organization

The committee oversees activities of all student organizations in the College. Schedules programs for student enrichment such as outside speakers from industry, business roundtable

(b) Committee on Teacher Certification/ExCET and exit exams for freshman major and non-major biology courses (c) Recruitment Committee (For Students and Faculty)

3. Assumed special assignments as follows:

- Contributed to the development of a proposal to support certification of 4-8 Science

program through the National Council for Accreditation of Teacher Education (NCATE);

- Supervised College of Education students on clinical practice (student teaching)
- Served as Training Point of Contact for TSU in Global Learning and Observations to Benefit the Environment (GLOBE) Program
- Provided student advisement and counseling.
- Served as Lead on Education and Workforce Improvement Summit Proposal development for TSU, working cooperatively with Oak Ridge National Laboratory staff
- Worked on team to develop a Science, Technology, Engineering, and Mathematics (STEM) Initiative
- Represented TSU at a proposal development session to plan a National Science Foundation Aerospace Academy for Young Scientists (NSFAYS) Project.

Sep 2003- Dec 2003: **Adjunct Professor**, Department of Biology, Texas Southern University, Houston, Texas

- Taught Biology Lecture course (Majors course)

Taught three credit hours of Biological Science 1 course to 300 undergraduate students; Prepared course materials and lectures using Power Point, Excel and Microsoft Word, Texts and other required materials, Computed daily attendance grades; Assessed assigned courses: Grading of students papers for Exams, Assignments and Quizzes, as well as Computing tests and assignment grades weekly.

Aug 2002- Aug 2003: **Science Teacher**, Houston Independent School District, Houston, Texas

- Taught Chemistry course(in High School)
- Taught Biology course(in High School)
- Taught Integrated Physics and Chemistry (in High School).

1. Taught three different science courses per week. Prepared course materials and lectures using Microsoft Word, Texts and other required materials; Used IGPRO- an e-Education platform designed for teaching and learning: Reported Student's Tests, Quizzes and Assignment Grades regularly; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for Exams, Assignments and Quizzes, as well as Computing tests and assignment grades weekly; Used e-mail and other electronic forms of communication with students and parents where appropriate.

2. Assisted in school and departmental duties.

Aug1999-June 2002: **Assistant Professor of Science Education**, Department of Science Education, University of Uyo, Akwa Ibom State, Nigeria

- Taught Science Education course (Majors course)
- Taught Environmental Education course(Majors course)
- Taught General Chemistry for Integrated Science course (Majors and Non-Majors course)

1. Taught majors and non-majors lecture courses to undergraduates per semester. I kept office hours Monday through Friday. Prepared course materials and lectures using Texts and other required materials; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for Exams, Assignments and Quizzes, as well as Computing tests and assignment grades weekly.

2. Assumed Special assignments as enumerated:

- Supervised undergraduate and graduate student's project.
- Served as major advisor for seven undergraduates who were awarded bachelors degree in science education.
- Supervised student teachers on practical teaching (clinical practice).
- Trained teachers to use Metacognitive strategies of teaching difficult concepts in chemistry
- Structured the Environment and Population course to meet the challenges of the 21<sup>st</sup> century.
- Conducted departmental seminars for students
- Served in thesis review committee.
- Served as lead person in the exam review committee to compile final 4-year grades for Science Education(Chemistry) graduating students
- Served as departmental treasurer
- Assisted in various departmental duties.

Nov 1993- Aug 1998: **Graduate Teaching Assistant (part-time)**, Department of Teacher Education, University of Ibadan, Nigeria

1. Supervised undergraduate student's projects.
2. Supervised student teachers on practical teaching (clinical practice).
3. Assisted in other departmental duties.

Sep 1985-Nov 1988: **Secondary School Teacher**, State Secondary Education Board, Uyo, Akwa Ibom State, Nigeria.

- Taught Chemistry in high school
- Taught Mathematics in high school
- Taught Integrated Science in middle school.

1. Taught three different science courses per week. Prepared course materials and lectures using texts and other required materials; Reported student's tests, quizzes and assignment grades regularly; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for exams, assignments and quizzes, as well as Computing tests and assignment grades weekly;
3. Participated in departmental and school duties
4. Organized Science Fairs and Quizzes.
5. Coordinated effective implementation of the science curriculum using an interdisciplinary approach to the teaching and learning of science.

Sep 1983-Nov 1983: **Secondary School Teacher**, State Secondary Education Board, Uyo,  
Akwa Ibom State, Nigeria.

- Taught Chemistry in high school
  - Taught Integrated Science in middle school;
1. Taught two science courses per week. Prepared course materials and lectures using texts and other required materials; Reported student's tests, quizzes and assignment grades regularly; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for exams, assignments and quizzes, as well as Computing tests and assignment grades weekly.
  2. Provided leadership in setting up of chemistry and biology laboratories in a way that expedited accreditation for the community school
  3. Participated in other departmental and school duties

Aug 1982-Aug 1983: **Secondary School Teacher**, St. Mary's Grammar School, Ikole-Ekiti,  
Ekiti State, Nigeria.

- Taught Chemistry course in high school
  - Taught Biology course in high school
  - Taught Integrated Science in middle school
1. Taught three different science courses per week. Prepared course materials and lectures using texts and other required materials; Reported student's tests, quizzes and assignment grades regularly; Computed daily attendance grades; Assessed assigned courses: Grading of students papers for exams, assignments and quizzes, as well as Computing tests and assignment grades weekly
  2. Served as lead person to organize community projects in science teaching and learning assisted by other youth service corps members, colleagues, education officials and community leaders

Sep 1978-Sep 1979: **Elementary School Teacher**, Etinan Local Government Education

District Etinan, Akwa Ibom State, Nigeria

- Taught General Science in grades 4-6.
1. Taught general science Monday through Friday in 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> grades, prepared daily lesson plan, checked attendance daily, administered weekly tests every Friday, and compiled final grades at the end of the term.
  2. Supervised students during environmental sanitation in and outside of the classroom, inspected children before devotion, supervised children during worship and in class.
  3. Supervised students during manual labor on Fridays and for craft (handwork) on Tuesdays and Thursdays
  4. Coordinated excursions and field trips

**PUBLICATION**

EKWERE, O. J. (1997) Metacognitive Instructional Strategies: Innovations in Chemistry Teaching. Proceedings of the 40<sup>th</sup> Annual Conference of Science Teachers' Association of Nigeria, pp. 168-172.

**PRESENTATIONS**

EKWERE, O. J. (2007) Global Learning and Observations to Benefit the Environment (GLOBE): Interdisciplinary Approach to Teaching and Learning. Paper presented to pre-service teachers, College of Education, Texas Southern University, Houston, Texas

EKWERE, O.J. (2000) Metacognitive Inquiry and Student's Concept Attainment in Chemistry, Paper presented at faculty and staff seminar, Faculty of Education, University of Uyo, Akwa Ibom State

EKWERE, O.J. (1998) Metacognitive Instructional Strategies and Students Concept Attainment in, and Attitude Towards Chemistry in Ibadan municipality. Paper presented at faculty, staff and students' seminar, Department of Teacher Education, University of Ibadan.

EKWERE, O. J. (1996) Metacognitive Instructional Strategies of Concept Mapping and Rehearsal and Students' Performance in Secondary School Chemistry, Paper presented at the joint staff/higher degree students' seminar series, Department of Teacher Education, University of Ibadan.

EKWERE, O.J. (1994) Metacognitive Instructional Strategies, Cognitive Style and Gender as determinants of Students' Concept Attainment in and Attitude towards Chemistry. A research paper presented to the Association of African Universities Accra - North, Ghana.

EKWERE, O. J. (1993) Metacognitive Instructional Strategies, Cognitive Style and Gender and Students' Concept Attainment in Chemistry in Senior Secondary Schools. Paper Presented at Departmental Seminar, Department of Teacher Education, University of Ibadan.

EKWERE, O. J. (1991) Teaching Science Students in Secondary Schools, Paper Presented at



Science Unit Seminar, Department of Teacher Education, University of Ibadan

EKWERE, O. J. (1989) Effects of Schema Activation and Concept Attainment Instructional Models on Secondary School Students' Attainment of the Mole Concept. Paper presented at Departmental Seminar, Department of Teacher Education, University of Ibadan.

### **RESEARCH IN PROGRESS**

Curriculum Design: Development of Innovative Learning Strategies for "Hard-To-Reach" Science Students.

### **AWARDS, HONORS AND GRANT RECEIVED**

- Certification, GLOBE program , March 2007
- Letters of appreciation for participation in clinical practice at College of Education, TSU, 2006 & 2007
- Letters of appreciation for contributions to development of a proposal to support certification by National Council for Accreditation of Teacher Education (NCATE), 2007
- Doctoral Thesis Support Grant from Association of African Universities, P. O. Box 5774, Accra- North, Ghana. 1995
- Certificate of national service from National Youth Service Corps(NYSC) in accordance with section 11 of the NYSC degree # 24 of 1973, August 1983

### **SPECIAL SKILLS:**

1. Applied research and knowledge of computer applications, including: Multimedia- Microsoft Word; Spreadsheet- Microsoft Excel; Graphics- Power Point, Publisher and Statistical Package- SPSS 2. Leadership and Organizational Skills; 3. Teaching, Research and Writing Skills

### **COMMUNITY INVOLVEMENT ACTIVITIES**

- (1) Participates in recruitment activities for schools and colleges, 1978-September 2007; October 2008-present
- (2) Current High Commissioner, USA/CANADA, Mboho Mkparawa Ibibio (MMI). MMI is a socio-cultural organization with over 10,000 members all over the world.
- (3) Houston Chapter Secretary (2011-2014), Mboho Mkparawa Ibibio USA, Inc.
- (4) Chairman of Planning Committee (2013) and Secretary of Planning Committee (2011 and 2012) for Mboho Mkparawa Ibibio (MMI) Annual International Convention in Houston, Texas and Detroit, Michigan that participants attended from Europe, Africa and USA
- (5) Houston Chapter Assistant Secretary, (2010-2011), Mboho Mkparawa Ibibio USA, Inc.
- (6) Houston Chapter Secretary, Mboho Ndito Etinan ke USA, (2008-2012)
- (7) Member, Planning Committee, 2013 Our Daily Manna Convention held in Houston
- (8) Attended Convocations & Commencement activities, 1978-Sept. 2007; Oct. 2008-present

- (9) Corps Cadet Counselor (Bible student's teacher), and substitute Sunday school teacher 2004-present), Songster leader (Choir director-2005) at The Salvation Army, Houston International Corps.
- (10) Participates in community holiday programs of the Salvation Army such as:
- (i) Angel Tree Program, 2007-present
  - (ii) Assistance program for needy families, 2007-present
  - (iii) The Red Kettles and bell ringers program, 2006-present
  - (iv) Visitation to the elderly in nursing homes, 2005-present
  - (v) Camping (Youth and Women's), 2005-present
- (11) Member, University of Ibadan Choir, Nigeria, 1990-1997
- (12). Director, Young People Singing Company (Choir), Salvation Army Corps, Etinan, Nigeria Territory, 1979-1990;
- (13.) Participated in community projects during National Youth Service Corps (NYSC), 1982-1983
- (14). Glee Club Member, Cornelia Connelly College, Uyo, Akwa Ibom State, Nigeria, 1972-1974
- (15). Member, Young People Singing Company, Salvation Army, Akai, Nigeria Territory, 1967-1969
- (16) Member, Practicing School Choir, Akai, Ubium, Nigeria, 1967 - 1969

**INTERESTS:**

Music, Sports, Reading and Writing, Enriching the lives of youths and adults

**PROFESSIONAL ASSOCIATION MEMBERSHIP**

National Association for Research in Science Teaching (NARST)

National Science Teachers Association (NSTA)

American Chemical Society (ACS)

Global Learning and Observations to Benefit the Environment (GLOBE) Program;

American Educational Research Association (AERA)

Organization for Women in Science for the Developing World (OWSD)

Science Teachers Association of Nigeria (STAN)