

**Obot Jackson Thompson Ekwere, Ph.D.**  
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**SUMMARY:** Currently, teaching Chemistry at Texas Southern University, Houston, Texas. Proficient in creative teaching and learning strategies that help students become life-long scholars and learners. Deeply invested in science curriculum development and working with pre-service and In-service teachers. Has a proven track record as a teacher, teacher trainer and researcher with the experience of working in elementary school, high school and college levels.

**PROFESSIONAL ACADEMIC EXPERIENCE**

**Texas Southern University**, Houston, Texas Sept 01, 2003 – Present

Sept 01, 2010 - Present

**Adjunct Professor**, Department of Chemistry,

- Teach General Chemistry I and II courses and Organic Chemistry I course, and keep office hours
- Serving as the TSU Partnership Coordinator for the Global Learning and Observations to Benefit the Environment (GLOBE) program
- Previously served as the Training Coordinator for the GLOBE program
- Plan and Execute Teacher Training and Train-the-Trainer Workshops in GLOBE program
- Continued with the grant faculty research project for Achieving-the-Dream, using Metacognitive instructional strategies for students' concept attainment in entry level college chemistry

Sept 01, 2009 – Aug 31, 2010:

**Visiting Assistant Professor**, Department of Curriculum and Instruction, College of Education

- Taught Integrated Science, Mathematics, and Health course for pre-service teachers
- Developed the science curriculum 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

**Adjunct Professor**, Department of Chemistry

- Taught General Chemistry I and II courses and maintained office hours
- Student advising

**Research Associate, Center for STEM Education and Outreach (C-SEO)**

- 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
- Served as the Training Coordinator for GLOBE program
- Planned and Executed Teacher Training and Train-the-Trainer Workshops in GLOBE program
- Worked on a faculty research grant project for Achieving-the-Dream, using Metacognitive instructional strategies for students' concept attainment in entry level college chemistry

Jan 02, 2009-May 31, 2009

**Research Associate, Department of Chemistry and Department of Curriculum and Instruction**

- Provided project management support to the Social Networks for Earth Systems Understanding GLOBE HBCU Initiative project and Assisted 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)
- Assisted with writing grant proposals,
- Worked on a grant faculty research project for Achieving-the-Dream, using Metacognitive instructional strategies for students' concept attainment in entry level college chemistry

Oct 13, 2008- Dec 31, 2008

**Laboratory Assistant, Department of Chemistry**

- Taught Chemistry Laboratory Course

**Research Associate, HBCU/GLOBE-centric Earth System Science (ESSEA) teaching and research project, Texas Southern University, Houston, Texas**

- Provided project management support to the *Social Networks for Earth Systems*

*Understanding GLOBE HBCU Initiative* project and assisted Project Investigator.

- Assisted in planning the GLOBE Train-the-Trainer Workshop for February 2009
- Support development of 3 new courses (Campus Ecology, Hurricane Ike, and Carbohydrate Economy).

**Summer Faculty**, Department of Biology, Jun 01, 2007- Jul 31, 2007:

- Taught Biology Lecture courses

**Visiting Assistant Professor**, Department of Biology, Jan 01, 2004- Sep 30, 2007

- Taught Biology Lecture courses (Majors and Non-majors Courses)
- Taught Biology Laboratory courses (Non-majors Course)
- Served on Departmental and University Committees
- Assumed special assignments as follows:
- Developed a proposal to support certification by 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.

**Adjunct Professor**, Department of Biology, Sep 01, 2003- Dec 30, 2003:

- Taught Biological Science course 300 undergraduate students or for majors and non-science majors

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

- Taught Chemistry, Biology and Integrated Physics and Chemistry in High School.
- Assisted in school and departmental duties.

## **PRIOR ROLE**

**Assistant Professor of Science Education**, Department of Science Education, University of Uyo, Akwa Ibom State, Nigeria

- Taught undergraduate courses in Science Education, Environmental Education and General Chemistry for Integrated Science.
- Structured the Environment and Population course to meet the challenges of the 21<sup>st</sup> century
- Supervised undergraduate and graduate students' project.
- Supervised student teachers on practical teaching (Clinical practice).
- Trained In-Service teachers to use Metacognitive strategies of teaching difficult concepts in Chemistry
- Served in thesis review committee and other departmental committees.
- Assisted in various departmental duties.

**Graduate Teaching Assistant (Part-time)**, Department of Teacher Education, University of Ibadan, Nigeria,

- Supervised undergraduate students' projects.
- Supervised student teachers on practical teaching.
- Assisted in other departmental duties.

**Secondary School Teacher**, State Secondary Education Board, Uyo, Akwa Ibom State, Nigeria,

- Taught Chemistry, Mathematics and Integrated Science in high and middle schools respectively.
- Set up Chemistry and Biology Laboratories in a way that expedited accreditation for the community school
- Participated in departmental and school duties
- Organized Science Fairs and Quizzes.
- Coordinated effective implementation of the science curriculum.

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

- Taught Chemistry, Biology and Integrated Science in high and middle schools respectively.
- Organized community projects in science teaching and learning.

**Elementary School Teacher**, Etinan Local Government Education District, Etinan, Akwa Ibom State, Nigeria,

- Taught General Science in grades 4-6.
- 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.

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

### **Texas Southern University:**

- Certification, GLOBE program, March 2007
- Achieving the Dream at Texas Southern University Faculty Action Research Grant, 2009-2011
- 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, Association of African Universities, P. O. Box 5774, Accra- North, Ghana, 1995 (Education)

## **EDUCATION**

University of Ibadan, Oyo State, Nigeria

Ph. D. Science Education (Chemistry)

M.ED. Teacher Education (Science Education)

Ahmadu Bello University, Zaria, Nigeria,

B. Ed., Science Education (Chemistry)

## **PROFESSIONAL ASSOCIATION MEMBERSHIP**

Global Learning and Observations to Benefit the Environment (GLOBE) Program, 03/20/2007 - Present

National Science Teachers Association (NSTA), 03/30/2001- 06/30/2011

National Association for Research in Science Teaching (NARST), 01/01/2000 - 12/31/2010

American Chemical Society (ACS), 06/10/2010 - 06/10/2011

American Educational Research Association (AERA), 01/01/2011 - 1/31/2011

Organization for Women in Science for the Developing World (OWSD), 01/01/1999 - Present

The Global Business RoundTable (GBR), 01/27/2016 - Present

## **TECHNOLOGY SKILLS:**

Computer Skills: Proficient in Microsoft Office, Outlook, Publisher, Adobe Acrobat; SPSS

## **COMMUNITY INVOLVEMENT ACTIVITIES**

The Salvation Army, Houston International Corps

- Corps Cadet Counselor and Substitute Sunday School teacher 2004 - Present
- Vacation Bible School Teacher, 2004 - 2008, 2019
- Boys and Girls Club Staff, 2019
- Corps Council Member 2017- Present
- Songster member 2004 - Present
- Participates in community holiday programs and other services

Others:

- Served in various capacities in community organizations
- Provide services in schools and community projects