

Innocent J. Aluka
Professional Summary
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Personal:

Business Address: Dept. of Physics/Physical Science
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Education: Ph.D. in Geological Sci., University of Texas at El Paso, May 1984.
M.S. in Geological Sci., University of Wisconsin, Milwaukee, 1981.
B.Sc. in Geological Sci., Bello University, Zaria, 1977.

Work and Research Experience:

Assistant Professor of Physical Sci., Prairie View A&M University,
Sept/ 86 to 1994.
Associate Professor of Physical Sci., Prairie View A&M University,
1994 to 2007.
Professor of Physical Sic., Sept. 2007 to present
Completed research studies on integrating P-Wave and
S-wave seismic data to improve characterization of oil reservoirs
and expanding conventional Seismic stratigraphy into the
multicomponent seismic domain.

Service Longevity: Serving Prairie View A&M University and the State of Texas for
23 years since 1986.

Publications:

Papers:

1. Aluka, I.J., and Hardage, Bob A., 2006, Expanding an Elastic Definition: AAPG Explorer, January, p. 28. (Bulletin is attached.)
2. Aluka, I.J., and Hardage, Bob A., 2006, Depth Registration Has Pitfalls: AAPG Explorer, February, p. 32. (Bulletin is attached.)
3. Aluka, I.J., 2003, Integrating P-Wave and S-Wave-Elastic Wavefield Seismic Stratigraphy to Improve Characteization of Oil Reservoir. In HBCU/OMI Bulletin.
4. Aluka, I.J., 2002, Integrating P-Wave and S-Wave Seismic Data to Improve Charactrization of Oil Reservoir. In HBCU/OMI Bulletin.
5. Aluka, I.J., 1993, Retention of African American Males in Science and Engineering; MinorityVoices.

6. Aluka, I.J., 1993, Minorities in Science and Engineering. Resources in Education (RIE) in ERIC.
7. Aluka, I.J., 1988, Depositional Environments and Diagenesis of El Paso Group, Southern Hueco Mtns., Hudspeth Co. Tx. In AAPG Bulletin, vol. 72/2
8. Aluka, I.J., 1987, Microfacies Analysis and depositional Environments of the Middle Unit of El Paso Group, Southern Hueco Mtns., Hudspeth Co. Tx. In AAPG Bulletin, vol. 71/8
9. Aluka, I.J., 1987, Discriminant Analysis of the components of the rocks of El Paso Group, Hueco Mtns., Hudspeth Co. Tx – Approach to Depositional Environment. In AAPG Bulletin, vol. 71/8
10. Aluka, I.J., 1984, Early Ordovician El Paso Group of Southern Hueco Mtns., Hudspeth Co. Tx in New Mexico Jour. of Sci.

Textbooks:

1. Author, Physical Science - A laboratory Approach, 1989, 1st edition.
2. Author, Physical Science - A laboratory Approach, 2002, 2nd edition.
3. Author, Contemporary Physical Science, 1998, 1st edition.

Technical Reviewer:

Agency, National Science Foundation (NSF)
Principal reviewer of Physical Science Principles and Applications: Payne, Falls and Whidden, 5th Ed. Publisher WC Brown (WCB).

Paper Presentations:

1. Depositional Environment, Diagenesis, and Porosity of Lower Ordovician, El Paso Group, Southern Hueco Mtns., Tx; presented to Exxon Company Houston, Dec. 1989.
2. Stratigraphy and Hydrocarbon Aspects of S5 Reservoirs, Agbada Formation, Bakassi Mining Concession, Rio Del Rey Basin, Cameroun; presented to Shell Oil Company, Sept. 1990.
3. Integrating P-Wave and S-wave Seismic data to Improve Characterization of Oil Reservoirs; presented at a conference of US DOE HBCU/OMI Contract Review, Pittsburgh, PA, June 2001
4. Integrating P-Wave and S-wave Seismic data to Improve

Characterization of Oil Reservoirs; presented at a conference of Historically Black Colleges and Universities and Minority Institutions in Pittsburgh, Pennsylvania, June 2002.

- 5. Elastic Wave Seismic Stratigraphy presented at a conference of Historically Black Colleges and Universities and Minority Institutions in Pittsburgh, Pennsylvania, June 2003.**

Research:

Funded Proposals:

- 1. Minorities in Science and Engineering Phase 1: Summer Workshop for high school Teachers. This was one of the priority programs for Prairie View A&M University Strategic Plan to 1997.**

PIs: Dr. Willie F. Trotty , Campus Coordinator for science and engineering, Drs. John Williams and I.J. Aluka.

Allocation: \$160,000.00 (1992-1997)

Source; DOE.

- 2. EXAFS Analysis of Sulfur K-edge in Rock-Forming Sulfide Minerals-Grenockite, Chalcopyrite, and Stannite.**

PI: Dr. I.J. Aluka

Allocation: \$100,000.00 (1995-1997)

Source: DOE

- 3. Integrating P-Wave and S-wave seismic data to improve characterization of oil Reservoirs;**

PI: Dr. I.J. Aluka

Allocation: \$184,000.00 (9/1/2000 – 8/31/2004).

Source: DOE. Award letter is attached, see research/scholarly/creative activities.

- 4. Expanding Conventional Seismic Stratigraphy into the Multicomponent Seismic Domain;**

PI: Dr. I.J. Aluka

Allocation: \$200,000.00 (9/1/2004 – 8/31/2006).

Source: DOE. Award letter is attached, see research/scholarly/creative activities.

Proposals In Preparation:

- 1. Elastic Wavefield Stratigraphy – A Future Seismic Innovation**
- 2. Extension of 9-component Seismic Data (P-P, P-SV, SH-SH, SV-SV, and SV-P) into Deepwater Stratigraphy.**

Activities:

- 1. Member of American Association of Petroleum Geologists (AAPG)**
- 2. Member of American Geophysical Union (AGU)**
- 3. Member of Society of Exploration Geophysicists (SEG)**
- 4. Member of Houston Geological Society.**
- 5. Committee Member:**
 - a. Research Committee of AAPG**
 - b. Grant in Aid Committee of AAPG**
 - c. Publications Committee of AAPG**