

Innocent J. Aluka

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CURRICULUM VITA

EDUCATION

- Ph.D. Geological Sci, University of Texas at El Paso, May 1984.
- M.S. Geological Sci., University of Wisconsin, Milwaukee, 1981
- B.Sc. Geological Sci., Bello University, Zaria, 1977

EXPERIENCE

- Prairie View A&M University
Professor 2007 –present
Associate Professor 1994-2007
Assistant Prof. 1986 –1994

PROFESSIONAL, TECHNICAL AND WORK-RELATED EXPERIENCE AND SKILLS

- **Carrying out research studies on integrating P-Wave and S-wave seismic data to improve characterization of oil reservoirs**
- **Expanding conventional Seismic Stratigraphy into the Multicomponent Seismic Domain**
- **Use of SMT/IHS and Petrel softwares for seismic interpretation, unconventional resources plays, reservoir modeling/simulation and basin analysis studies.**
- **Geology/Geophysics investigations/studies of outcrops in West Texas.**

PROFESSIONAL ACHIEVEMENTS AND PUBLICATIONS

- **Award for Faculty-Research & Innovation for Scholarly Excellence (RISE)-Undergraduate Research Program 2023– 2024.**
- **Innocent J. Aluka, (2023): Diversity in Geology and Geophysics Degree Programs in Historically Black Colleges and Universities (HBCUs), in Multicultural Learning and Teaching (MLT).**
- **Innocent J. Aluka, (2023): Comparative Studies of Micropaleontology and Diagenesis of the Rocks of Early Late Early Ordovician El Paso Group of the Southern Hueco Mountains, Hudspeth County Texas and Surrounding Areas, in American Association of Petroleum Geologists (AAPG) Bulletin.**
- **Innocent J. Aluka, (2023). Application of S_1 (Fast Shear Waves) and S_2 (Slow Shear Waves) Components for Locating Fractures in carbonate Rocks, in American Association of Petroleum Geologists (AAPG) Bulletin.**
- **Festus E. Obiakor, Innocent J. Aluka, Emmanuel I. Mbagwu, and Sunday O. Obi, (2023). Beyond Fraudulent Multiculturalism in Higher Education: Moving Forward, in Multicultural Learning and Teaching (MLT).**

Festus E. Obiakor, Sunday O. Obi, Gina C. Obiakor, Innocent J. Aluka, Emmanuel Mbagwu, Stephanie Obi, Nkechi Amadife, and Philip Clay, (2023): Special Education and the Future: Advancing Values, Chapter 14, Series: Advances in Education, vol. 38

Festus E. Obiakor, Innocent J. Aluka, Gina C. Obiakor, Sunday O. Obi, (2022), Educating Culturally and Linguistically Diverse Students with Disabilities in Inclusive Settings: Beyond Debates. in Multicultural Teaching and learning (MLT).

Aluka, I.J., 2019, Potentialities of Multicomponent Seismic Techniques In the Characterization of Oil Reservoirs Underlying High Velocity Layers. In American Association of Petroleum Geologists (AAPG)

- **Aluka, I.J., 2014, Application of Research Techniques for Exploration of Unconventional Resources Plays to Increase Diversity in Geosciences Program. In Gulf Coast Association of Geological Society (GCAGS)**
- **Aluka, I. J., 2013, Acquisition of Multicomponent-4C Seismic Data from Unconventional Marine Reservoirs to Improve Exploration and Risk Attenuation in Reservoir Characterization. In American Geophysical Union (AGU)**
- **Aluka, I.J., 2013, Multicomponent Seismic Technology in Exploration and Characterization of Unconventional Reservoirs. In American Association of Petroleum Geologists (AAPG)**
- **Aluka, I. J., 2013, Microfacies Analysis, Diagenesis, Paleoenvironments, and Reservoir Quality of Early Ordovician El Paso Group of the Southern Hueco Mountains, Hudspeth County, Texas. In American Association of Petroleum Geologists (AAPG)**
- **Aluka, I. J., and Hardage, Bob A., 2006, Expanding an Elastic Definition: AAPG Explorer, January, p.28**
- **Aluka, I.J., and Hardage, Bob A., 2006, Depth Registration Has Pitfalls: AAPG Explorer, February, p. 32**
- **Aluka, I. J., 2003, Integrating P-Wave and S-Wave-Elastic Wavefield Seismic Stratigraphy to Improve Characterization of Oil Reservoir. In HBCU/OMI Bulletin**
- **Aluka, I.J., 2002, Integrating P-Wave and S-Wave Seismic Data to Improve Characterization of Oil Reservoir. In HBCU/OMI Bulletin**

- **Aluka, I. J., 1988, Depositional Environments and Diagenesis of El Paso Group, Southern Hueco Mtns., Hudspeth Co. Tx. In AAPG Bulletin, vol. 72/2**
- **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**
- **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**

RESEARCH

Acquisition of Schlumberger software-Petrel Geology, Geophysics, Petromod and Techlog Donation, (2023- 2026, value: \$1,807,933.64)

Acquisition of Schlumberger software-Petrel, Petromod and Techlog Donation, (2014 -2017, value \$2,852,963.70 and \$1,771,593. 12 totaling \$4,624,556.82).

IHS (SMT Kingdom) Software Donation, (\$100,000.00), to be renewed.

DOE Grant: Expanding Conventional Seismic Stratigraphy into the Multicomponent Seismic Domain, (2004-2008, \$200,000.00)

DOE Grant: Integrating P-Wave and S-wave seismic data to improve characterization of oil Reservoirs, (2000-2004, \$184,000.00)

BOOKS:

Author, 5th edition, Contemporary Physical Science 2023

Author, 4th edition, Contemporary Physical Science 2019.

Author, Contemporary Physical Science, 2017, revised 3rd ed. 1116 pp.

Author, Contemporary Physical Science, 2015, 3rd edition

Author, Contemporary Physical Science, 2013, 2nd edition, 762 pp

Author, Contemporary Physical Science, 1998, 1st edition, 707 pp

Author, Physical Science - A laboratory Approach, 2002, 2nd edition.

Author, Physical Science - A laboratory Approach, 1989, 1st edition.

TECHNICAL REVIEWER:

1. Agency, National Science Foundation (NSF)
2. 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.

SUMMARY OF TEACHING LOAD 2015 to 2023

Spring 2015

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	51
PHSC 1123	MWF	11 – 11:50 a.m.	50
PHSC 1123	MWF	1 – 1 :50 p.m.	51
PHSC 3083	MW	3:30 – 4:50 p.m.	29

Summer 2015 (1st and 2nd)

Course	Days	Time	Number of Students
PHSC 1123	MTWR	10 – 12:40 p.m.	20
PHSC 3083	MTWR	10 – 12:40 p.m.	14

Fall 2015

Course	Days	Time	Number of Students
PHSC 1121	T	2 – 3:20 p.m.	19
PHSC 1121	W	2 – 3:20 p.m.	17
PHJSC 1123	MWF	10 – 10:50 a.m.	32
PHSC 1123	MWF	11 – 11:50 a.m.	35
PHSC 1123	MWF	1 – 1:50 a.m.	35

Spring 2016

Course	Days	Time	Number of Students
PHSC 3083	MW	3:30 – 4:50 p.m.	46
PHSC 1123	MWF	10 – 10:50 a.m.	32
PHSC 1123	MWF	11 – 11:50 a.m.	31
PHSC 1123	MWF	1 – 1:50 a.m.	31

Summer 2016 (1st and 2nd Summer)

Course	Days	Time	Number of Students
PHSC 1123	MTWR	10 – 12:40 p.m.	19
PHSC 3083	MTWR	10 – 12:40 p.m.	9

Fall 2016

Course	Days	Time	Number of Students
PHSC 1121	W		17
PHSC 1123	MWF	10 – 10:50 a.m.	31
PHSC 1123	MWF	11 – 11 :50 a.m.	30
PHSC 1123	MWF	1 – 1:50 p.m.	30

Spring 2017

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	30
PHSC 1123	MWF	11 – 11:50 a.m.	39
PHSC 1123	MWF	1 – 1 :50 p.m.	39
PHSC 3083	MW	3:30 – 4:50 p.m.	39

Summer 2017

Course	Day	Time	Number of Students
PHSC 1123	MTWR		28

Fall 2017

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	32
PHSC 1123	MWF	11 – 11:50 a.m.	35
PHSC 1123	MWF	1 – 1 :50 p.m.	49
PHSC 3083	MW	3:30 – 4:50 p.m.	32

Spring 2018

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	40
PHSC 1123	MWF	11 – 11:50 a.m.	35
PHSC 1123	MWF	1 – 1 :50 p.m.	49
PHSC 3083	MW	3:30 – 4:50 p.m.	32

Summer 2018

Course	Days	Time	Number of Students
PHSC 1123	MTWR		31
PHSC 2123	MTWR		19

Fall 2018

Course	Days	Time	Number of Students
PHSC 1123	TR	2 – 3:20 p.m.	48
PHSC 3083	MW	3:30 – 4:50 p.m.	45
PHSC 1123	MWF	10 – 10:50 a.m.	39
PHSC 1123	MWF	11 – 11:50 a.m.	40
PHSC 1123	MWF	1 – 1:50 a.m.	39

Spring 2019

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	36
PHSC 1123	MWF	11 – 11:50 a.m.	35
PHSC 1123	MWF	1 – 1 :50 p.m.	30
PHSC 3083	MW	3:30 – 4:50 p.m.	47

Summer 2019

Course	Days	Time	Number of Students
PHSC 1123	MTWR		15

PHSC 2123	MTWR		33
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Fall 2019

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	30
PHSC 1123	MWF	11 – 11:50 a.m.	30
PHSC 1123	MWF	1 – 1 :50 p.m.	30
PHSC 3083	MW	3:30 – 4:50 p.m.	44

Spring 2020

Course	Days	Time	Number of Students
PHSC 1123	MWF	11 – 11:50 a.m.	31
PHSC 1123	MWF	1 – 1 :50 p.m.	30
PHSC 3083	MW	3:30 – 4:50 p.m.	42

Fall 2020

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	37
PHSC 1123	MWF	11 – 11:50 a.m.	37
PHSC 1123	MWF	1 – 1 :50 p.m.	36
PHSC 3083	MW	3:30 – 4:50 p.m.	40

Spring 2021

Course	Days	Time	Number of Students
PHSC 1123	MWF	10 – 10:50 a.m.	34
PHSC 1123	MWF	11 – 11:50 a.m.	26
PHSC 1123	MWF	1 – 1 :50 p.m.	10
PHSC 3083	MW	3:30 – 4:50 p.m.	31

Fall 2021

Course	Days	Time	Number of Students
PHSC 1315	MWF	10 – 10:50 a.m.	40
PHSC 1315	MWF	11 – 11:50 a.m.	40
PHSC 1315	MWF	1 – 1 :50 p.m.	41
PHSC 3308	MW	3:30 – 4:50 p.m.	35

Spring 2022

Course	Days	Time	Number of Students
PHSC 1315-Z01	MWF	10 – 10:50 a.m.	40
PHSC 1315-Z02	MWF	11 – 11:50 a.m.	38
PHSC 1315- Z03	MWF	1 – 1 :50 p.m.	34
PHSC 1315- Z04			23

Fall 2022

Course	Days	Time	Number of Students
PHSC 1315-P01	MWF	10 – 10:50 a.m.	38
PHSC 1315-P04	MWF	11 – 11:50 a.m.	39
PHSC 1315-P05	MWF	1 – 1 :50 p.m.	37

Spring 2023

Course	Days	Time	Number of Students
PHSC 1315-P02	MWF	10 – 10:50 a.m.	40
PHSC 1315-P04	MWF	11 – 11:50 a.m.	37
PHSC 1315-Z01			30

Fall 2023

Course	Days	Time	Number of Students
PHSC 1315-P04	MWF	10 – 10:50 a.m.	45
PHSC 1315-P05	MWF	12 – 12:50 a.m.	45
PHSC 1315-Z01			51

ACTIVITIES:

Member of American Association of Petroleum Geologists, (AAPG),

Houston Geological Society (HGS)

