

# Osareni Christopher. Ogiesoba

## Professional Summary

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## Professional Preparation

### Academic Background

Ph.D. Earth and Planetary Sciences, McGill University, Montreal, Quebec, September 2007

M.Sc. Applied Seismology, University of Calgary, Alberta, Canada, 2004

M.Sc. DIC, Geophysics, Imperial College of Science and Technology, Royal School of Mines, London, England, 1983

B.Sc. Geology, University of Benin, Benin City, Nigeria, 1979

### Professional Appointments

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2007-Present)

Evaluation of the Frio Formation, Austin Chalk, and Eagle Ford Shale on the South Texas Gulf Coast, using seismic attributes. My current research is in the use of seismic diffraction images in the evaluation of unconventional hydrocarbon resource plays, establishing relationships between diffraction energy and lithology, fractures, faults, and fluid saturation. This position also entails supervision of geoscience graduate students, review of journal articles for the joint SEG and AAPG "Interpretation" journal, publication of scientific papers, presentation of scientific papers at national and international conferences, and providing professional assistance to small companies operating in Texas.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (December 2019-February 2021)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (December 2019 - February 2021) Principal seismic interpreter for The Yegua Formation evaluation project, Jackson County, south Texas (Emerald Exploration Company). Identification of Sandstone-rich Zones in Upper Bathyal Deep-water Slope Environment, South Texas Gulf Coast

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2018-September 2020)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2018 - September 2020) Principal seismic interpreter for Seismic inversion for characterization of the Eastern Shelf, King County, central Texas (Burnett Oil Company Inc.). Prestack simultaneous seismic inversion of the Eastern Shelf to identify Tannehill channels, determine lithology distribution, and find hydrocarbons.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2017-June 2019)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2017 - June 2019) Principal seismic interpreter for Seismic characterization of Taylor group,

Serbin field project, central Texas (Riley Exploration Company). Seismic attributes investigation of depositional environments and hydrocarbon sweet-spot distribution in Serbin field, Taylor group, central Texas.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (October-November 2018)

Serve as Ph.D. External Examiner for the University of Queensland, Australia (October 16, 2018--November 19, 2018). Invited by the University of Queensland, Australia, to examine the Research Higher Degree thesis (PhD) for Mohamed Salah Sedek Abdel Hamed from the School of Earth and Environmental Sciences. Thesis title was: Pre-stack Seismic Data Processing for Anisotropic and Lateral Heterogeneous Media.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2017-June 2018)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2017 - June 2018) Principal seismic interpreter for Seismic characterization of Taylor group, Serbin field project, central Texas (Riley Exploration Company). Application of instantaneous-frequency attribute and gamma-ray wireline logs in the delineation of lithology in Serbin field, central Texas.

Research Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2017-June 2018)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2017 - June 2018) Principal seismic interpreter for Shale tectonics interpretation project: southwest and northeast of the San Marcos arch, South Texas (T.C. Oil and Brigham Exploration data). Investigation of structural styles associated with the upper Eocene (Jackson Group) and lower Oligocene (Vicksburg Group) located in the Rio Grande and Houston embayments southwest and northeast of the San Marcos Arch of the South Texas as Gulf Coast.

Research Associate, Scientist, Bureau of Economic Geology, The University of Texas at Austin (July 2016-June 2018)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2016 - June 2018) Principal seismic interpreter for Austin Chalk-Serpentine Volcanic plugs project, Williamson County southeast Texas (Trinity Brothers Energy and JMR Resources LLC). Well-to-seismic tie and wireline-log correlation to identify oil-bearing serpentine volcanic plug, Williamson County, southeast Texas.

Research Associate, Bureau of Economic Geology, University of Texas at Austin (February 2016-August 2017)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (February, 2016 - August 2017) Principal seismic interpreter and investigator for Austin Chalk-Eagle Ford Shale and Serpentine project - Zavala and Dimmit Counties, South Texas (CML Exploration Company). Seismic diffraction imaging of lithology and fluids in fault zones and hydrocarbon sweet spots within the Maverick Basin, South Texas. This was the second diffraction project undertaken by STARR.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (June 2014-December 2016)

Co-supervision of MSc Graduate Student Thesis Project (June 2014 - December 2016). Taught and coached Angela Eluwa 3D seismic interpretation, involving the use of specialized workstation software for subsurface mapping of stratigraphic and structural features, as well as providing fundamentals of seismic wave propagation within a Petroleum Geology context. The supervision led to the publication of a paper titled "Depositional settings and history of the Lower Miocene Fleming Group, Refugio County, Texas, as defined using seismic geomorphology" in 2018, in Marine and Petroleum Geology Journal, volume 92, p. 565-581. Seismic datasets for this project came from the Refugio County, South Texas, provided by T.C. Oil Company.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2014-June 2016)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2014 - June 2016) Principal seismic interpreter and investigator for Austin Chalk-Eagle Ford Shale and Serpentine project - Zavala and Dimmit Counties, South Texas (CML Exploration Company). Diffraction imaging of polygonal faults within a submarine volcanic terrain, Maverick Basin, south Texas. This was the first diffraction project undertaken by STARR in which I related diffraction energy to lithology--an approach different from other diffraction interpretation methods.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2012-June 2015)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2012 - June 2015) Principal seismic interpreter and investigator for Eocene-Jackson and Oligocene-Vicksburg/Frio project - Refugio County, South Texas (T.C. Oil Company). Diapiric shale and coast-perpendicular, fault-related subbasins, south Texas Gulf Coast. Development of subsurface geological model, prospect identification and mapping. This project was the first to reveal the spectacular nature of the shale tectonics exhibited by the Eocene-Jackson and the Oligocene-Vicksburg groups southwest of the San Marcos Arch axis.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2012-June 2014)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2012 - June 2014) Principal seismic interpreter for Eocene-Jackson and Oligocene-Vicksburg/Frio project - Refugio County, South Texas (T.C. Oil Company). Development of subsurface geological model. Prospect identification and mapping.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2010-June 2014)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2010 - June 2014) Principal seismic interpreter for Eagle Ford Shale project - Dimmit County, Maverick Basin, South Texas (Boilingstone Exploration Company). Seismic-attribute identification of brittle and TOC-rich zones. This project was the second paper on TOC prediction using seismic data. The publication of this paper attracted a number of interests from the academia, notably from Professor Plat, University of Oklahoma, and universities in Australia.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2011-June 2013)

Seismic Interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2011 - June 2013) Principal seismic interpreter and investigator for Austin Chalk-Eagle Ford Shale and Serpentine project - Zavala and Dimmit Counties, South Texas (CML Exploration Company). Seismic multiattribute analysis for shale gas/oil within the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas.

This project was the beginning of TOC prediction using seismic data and was pioneered by me, by integrating TOC log and seismic data. The publication of this paper attracted interests from the oil industries as well as the academia.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2009-June 2010)

Seismic interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2009 - June 2010) Principal seismic interpreter for Oligocene Frio project - Matagorda Bay, South Texas (Brigham Exploration Company). Delineation of and petrophysical characterization of mass transport deposits.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2009-June 2010)

Seismic Processor for the Joint Bureau of Economic Geology (BEG) and Petrobras Brazil,

Campos Basin Project (July 2009 - June 2010) Principal 3D poststack seismic processor for Campos Basin project - Campos Basin, Offshore Brazil (Petrobras Company). Seismic conditioning and attenuation of high-angle coherent noise in a mixed carbonate and siliciclastic setting.

Research Associate, Bureau of Economic Geology, The University of Texas at Austin (July 2007-June 2009)

Seismic interpreter for State of Texas Advanced Resource Recovery Program (STARR) (July 2007 - June 2009) Principal seismic interpreter for Oligocene Frio project - Matagorda Bay, South Texas (Brigham Exploration Company). Development of subsurface geological model. Prospect identification and mapping.

Teaching Assistant, Earth and Planetary Sciences Department, McGill University, Montreal (2004 - 2007).

Research Assistant, The Consortium for Research in Elastic Wave Exploration Seismology (CREWES), University of Calgary, Calgary, Alberta, Canada (2001 - 2004 ). Seismic interpretation of the Frio Formation in South Texas Gulf Coast. Development of regional structural and stratigraphic models. Post-stack processing of the seismic volume. Seismic attribute analysis. Prestack velocity analysis. Development of post-stack velocity analysis algorithm.

Research Assistant, WesternGeco, Denver, Colorado (May 2003 - August 2003). Development of converted-wave velocity ratio scanning algorithm for automatic transformation of PS to P time.

Geophysical Advisor, Mobil Corporation (1999 - 2000). Team leader of reservoir management team (multidisciplinary team): Mobil Southwestern oil fields, Niger Delta, West Africa.

Geophysical Advisor, Mobil Corporation (1997 - 1999). Responsible for integration of geological, geophysical, and reservoir-engineering data for optimal production uplift, Mobil Producing Nigeria Southwestern oil fields, Niger Delta, West Africa; responsible for the development of deep exploration plays in the cluster.

Geophysical Advisor, Dallas, Texas, Mobil Corporation (1996 - 1997). Reservoir characterization and gas injection project, Mobil Producing Nigeria Southwestern oil fields, Niger Delta, West Africa.

Senior Staff Geophysicist, Houston, Texas, Mobil Corporation (1995 - 1996). Deep-water block seismic evaluation: Mobil Western block, Niger Delta, West Africa.

Senior Staff Geophysicist, Mobil Corporation (1991 - 1994). Regional mapping of deep leads and prospects; development of structural and stratigraphic framework for Mobil deep plays, Mobil acreage, Niger Delta, West Africa; GMA stratigraphic modeling of an offshore stratigraphic hydrocarbon indicator (HCI) and wildcat recommendation: Niger Delta, West Africa; supervision of seismic mapping projects and wildcat recommendation: Mobil acreage, Niger Delta, West Africa; 3D seismic interpretation, reservoir delineation and recommendation of development wells, Mobil acreage, Niger Delta, West Africa; team leader on 3D mapping projects and wildcat recommendations: Mobil acreage, Niger Delta, West Africa; 3D mapping of an oil-bearing submarine fan: Mobil acreage, Niger Delta, West Africa.

Staff Geophysicist, Mobil Corporation (1988 - 1991). HCI analysis/ evaluation of Mobil Northern gas fields: Niger Delta, West Africa; identification, delineation, and recommendation of Deep leads: Mobil acreage, Niger Delta, West Africa; in-house consultant on seismic evaluation of deep water acreages during a lease sale: Niger Delta, West Africa; training and development of Mobil seismic interpreters: Nigeria, West Africa; seismic evaluation of an offshore acreage during a lease sale: Southwestern Cameroon, West Africa.

Senior Geophysicist, Mobil Corporation (1988 - 1988). Prospect generation and recommendation: Mobil acreage, Niger Delta, West Africa; gas potential studies of Mobil acreage, Niger Delta, West Africa; training and development of seismic interpreters: Nigeria,

West Africa.

Senior Geophysicist, Dallas, Texas, Mobil Corporation (1986 - 1987). Edop field 3D seismic data processing project: Mobil acreage, Niger Delta, West Africa; in-house consultant on seismic evaluation of an offshore acreage and identification of oil and gas fields during a lease sale: Niger Delta, West Africa.

Geophysicist, Mobil Corporation (1983 - 1986). Seismic interpretation and wildcat recommendations of a submarine channel play: Mobil acreage, Niger Delta, West Africa; seismic evaluation of offshore acreages during a lease sale and well-site duties: Mobil acreage, Niger Delta, West Africa.

Junior Geophysicist, Mobil Corporation (1980 - 1982). 2D seismic interpretation and recommendation of appraisal well location: Mobil acreage, Niger Delta, West Africa; well-site duties, postdrilling mapping and volumetric; quality control of 1982 2D seismic data processing.

## Theses

Prestack Vp/Vs scanning and automatic PS-to-PP time mapping using multicomponent seismic data

## Dissertations

Seismic exploration methods for hydrothermal dolomite reservoirs: A case study of the Trenton-Black River Groups

## Areas of Expertise

### Areas of Expertise

3D seismic attributes-based rock property prediction in hydrothermal dolomite reservoirs

Acreage evaluation and prospect generation

Multicomponent data processing and velocity ratios estimation for reservoir characterization

Reservoir Characterization

Seismic data processing and seismic anisotropy

Seismic interpretation of depositional systems

Seismic modeling

Shale Gas/Oil Evaluation (Unconventional Resources): Total Organic Carbon (TOC) Prediction, Brittle Zones and Sweet Spots Identification.

## Awards

### Awards and Honorary Societies

AAPG Certificate for Excellence in Presentation: 2014 AAPG/STGS Eagle Ford Shale plus Adjacent Plays & Extensions Geoscience and Technology Workshop in San Antonio, Texas, February 26, 2014.

Certificate for Recognition and Appreciation for Service (as Key Contact on Seismic Processing Noise Attenuation) to the Technical Program Committee for the SEG International Exposition and 82nd Annual Meeting, 4-9 November, Las Vegas, Nevada, 2012

Certificate of Recognition and Appreciation for Service as Technical Program Session Chairman, SEG International Exposition & Eighty-First Annual Meeting, Las Vegas, Texas, USA, 4-9 November, 2012

Certificate for Recognition and Appreciation for Service (as Key Contact on Seismic Processing Noise Attenuation) to the Technical Program Committee for the SEG International Exposition and 81st Annual Meeting, 18-23 September, San Antonio, Texas, USA, 2011

Certificate of Recognition and Appreciation for Service as Technical Program Session Chairman, SEG International Exposition & Eighty-First Annual Meeting, San Antonio, Texas, USA, 18-23 September, 2011

Howard Scholarship, McGill University, Montreal, Canada, 2006 - 2007

Mobil SPOT AWARD for outstanding performance: Inanga Evaluation Team, 1994

Federal Government of Nigeria Postgraduate Scholarship Award, 1982

Federal Government of Nigeria Academic Merit Award for outstanding University student: University of Benin, Nigeria, 1977 - 1978

## Service

### External Committees Participation

Associate Editor, Interpretation, Special Issue on Thin Beds, SEG and AAPG, February 11, 2014-June 4, 2015

Session co-chair, ST E-P1: 2D Modeling, Society of Exploration Geophysicists 84th International Exposition and Annual Meeting, Denver, Colorado, October 26-31, 2014

Session Judge, Seismic processing noise attenuation (SPNA) session, Society of Exploration Geophysicists 83rd Annual Convention Meeting, Houston, Texas, September 2013

Session Judge, Fracture characterization, AAPG Annual Convention Meeting, Pittsburgh, Pennsylvania, May 2013

Session co-chair, SPNA 2: stacking and multidimensional deconvolution, Society of Exploration Geophysicists 82nd International Exposition and Annual Meeting, Las Vegas, Nevada, November 12, 2012

Key Contact, SEG 2012 Technical Program Committee, Society of Exploration Geophysicists (SEG), Finalization of the technical program for the annual meeting, including the session schedule and special sessions, Houston, Texas, May 8, 2012

Session co-chair, SPNA P: prestack hybrid and curvelet transform, Society of Exploration Geophysicists 81st International Exposition and Annual Meeting, San Antonio, Texas, September 19, 2011

Key Contact, SEG 2011 Technical Program Committee, Society of Exploration Geophysicists (SEG), Review of technical abstracts and preparation for the SEG 81st Annual International Conference: Discuss objectives and responsibilities for year; introduce committee to the abstract submission system and how to perform tasks within it., Austin, Texas, February 23, 2011

### Outreach Activities

Seismic Data Analysis and Interpretation: presented to visiting prospective students of the Jackson School Institute for Geophysics, presented at STARR Visualization Lab, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, USA, February 27, 2011.

Geophysics in STARR: presented to visiting prospective students of the Jackson School of Geosciences, presented at Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, February 23, 2009.

Elementary School Science Fair Judge: Spicewood Elementary, Austin, Texas, February 2, 2009.

### Proposal Review Panels Participation

Technical Writer's Workshop, Bureau of Economic Geology, The University of Texas at Austin (Speaker), 2011

## Teaching and Advising

## Student Committee Supervision

Ph.D., Thesis Supervising Committee, Sarp Karakaya, Understanding Icehouse Mixed Carbonate and Siliciclastic Sequence Evolution: Insights from the Eastern Shelf of the Permian Basin, Texas, The University of Texas at Austin, 2024, Ph.D., Thesis Committee, Sarp Karakaya, Mr., Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2024

M.S. (Master of Science in Energy and Earth Resources), Thesis Supervising Committee, Angela Kelechi Eluwa, Depositional Systems Analysis of the Lower Miocene Interval in Refugio County, Western Gulf of Mexico Basin, The University of Texas at Austin, Austin, 2015

Ph.D., Thesis Supervising Committee, Mohammed Abdullah K. Alhussain, Fracture Characterization of a Carbonate Reservoir in Saudi Arabia, The University of Texas at Austin, 2013

## Student Committee Participation

Supervisor, Ph.D., Thesis Committee, Sarp Karakaya, Understanding Icehouse Mixed Carbonate and Siliciclastic Sequence Evolution: Insights from the Eastern Shelf of the Permian Basin, Texas, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, 2024

Member, Ph.D. Thesis Supervising Committee, Mohammed Abdullah K. Alhussain, Fracture characterization of a carbonate reservoir in Saudi Arabia, The University of Texas at Austin, Austin, Texas, 2013

Member, M.S. Thesis Supervising Committee, Nan Shan, Sensitivity of seismic response to variations in the Woodford Shale, Delaware Basin, West Texas, The University of Texas at Austin, Austin, Texas, 2010

## Presentations

### Invited Presentations

Diapiric Shale, Coast-Orthogonal and Coast-Parallel Faults, Observed in the Vicinity of the San Marcos Arch, Refugio and Calhoun Counties, South Texas Gulf Coast: presented to Corpus Christi Geological Society (CCGS), presented at CCGS October Zoom Meeting, <https://us02web.zoom.us/j/88522517767>, Meeting ID: 885 2251 7767, October 21, 2020.

Seismic multiattribute analysis for shale gas/oil within the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas: presented at Sanchez Oil and Gas Corporation, Houston, Texas, December 1, 2016.

Diffraction imaging of fault zones within the Austin Chalk and Eagle Ford Shale, Maverick Basin, South Texas: presented to AAPG GeoScience Technology Workshop (GTW), presented at Fourth Annual Eagle Ford Shale, San Antonio, Texas, March 9-11, 2015.

Seismic multiattribute analysis for shale gas/oil within the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas: presented at AAPG/STGS Eagle Ford plus Adjacent Plays & Extensions Geoscience and Technology Workshop, San Antonio, Texas, February 24-26, 2014.

Seismic inversion for shale gas/oil within the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas: presented to San Antonio Geophysical Society (SAGS), San Antonio Petroleum Club, San Antonio, Texas, April 23, 2013.

### Presentations

Multiattribute and Bayesian characterization of Salt Creek Field, Kent County, Texas: presented to the Bureau of Economic Geology (BEG) Researchers, presented at the 10th Annual Bureau Research Symposium, Bureau of Economic Geology Building 130, The University of Texas at Austin, Austin, Texas, September 20, 2024.

Multiattribute and Bayesian characterization of Salt Creek Field, Kent County, Texas: presented to SEG-AAPG, presented at The 4th International Meeting for Applied Geoscience & Energy (IMAGE-2024), Houston, Texas, August 26-29, 2024.

Seismic reservoir characterization of the Strawn Group, Northern part of the Eastern Shelf, King County, North-Central Texas: presented to SEG-AAPG, presented at 3rd International Meeting for Applied Geosciences and Energy (IMAGE-2023), Houston, Tex., August 28-31, 2023.

Magma intrusion pathways and seismic attributes characterization of the volcanic tuff in Elaine, Thrall, and Marcelina Creek Fields, in South Central Texas: presented to The State of Texas Advanced Resource Recovery Projects (STARR), presented at Volcanic Core Workshop, Austin, Tex., May 12, 2023.

A Systematic Approach to Identifying Hydrocarbon Sweet Spots Using Integrated Seismic Multiattribute, Wireline-Log, and Core Analyses: Case Study from the Upper Cretaceous Taylor Serbin Field, Southeast Texas: presented to Austin Geological Society, presented at Austin, Bureau of Economic Geology, The University of Texas at Austin, April 4, 2022.

Identification of sandstone-rich zones in upper bathyal deep-water slope environment, South Texas Gulf Coast: presented to Joint AAPG and SEG IMAGE 2021 Meeting, presented at SEG International Exposition and 91st Annual Meeting 26 September-1 October 2021, Denver, Colorado, September 26-October 1, 2021.

Simultaneous seismic inversion study of the northern part of the Eastern Shelf, King County, Central Texas: presented to Fort Worth Geological Society, presented at 2021 SWS AAPG Annual Convention, Houston, Tex., June 26-30, 2021.

Comparison of Structural Styles Observed in Upper Eocene (Jackson Group) and Oligocene (Vicksburg Group) Strata within the Rio Grande and Houston Embayments Southwest and Northeast of the San Marcos Arch, Refugio And Calhoun Counties, South Texas Gulf Coast: presented to Gulf Coast Association of Geological Societies and Gulf Coast Section SEPM, presented at 69th Annual Convention, Houston, Tex., October 23-25, 2019.

Application of Instantaneous Frequency Attributes and Gamma-Ray Wireline Logs in the Delineation of Lithology in Serbin Field, Southeast Texas: A Case Study: presented to Society of Exploration Geophysicists, presented at 88th SEG International Exposition and Annual Meeting, Anaheim, California, USA, October 15, 2018.

Structural Styles of Eocene-Jackson and Oligocene-Vicksburg Formations within the Rio Grande and Houston Embayments near the San Marcos Arch, in Refugio and Calhoun Counties, South Texas Gulf Coast: presented to Gulf Coast Association of Geological Societies and Gulf Coast Section SEPM, presented at 68th Annual Convention, Shreveport, La., October 1, 2018.

Seismic attributes investigation of depositional environments and hydrocarbon sweet-spot distribution in Serbin field, Taylor group, Central Texas: presented to Society of Exploration Geophysicists, presented at 87th SEG International Exposition and Annual Meeting, Houston, Tex., September 25-28, 2017.

Seismic diffraction imaging of lithology in fault zones and hydrocarbon sweet spots within the Austin Chalk and Eagle Ford Shale, Maverick Basin, South Texas: presented at Unconventional Resources Technology (URTec) Conference, San Antonio, Texas, August 1-3, 2016.

Application of thin-bed indicator and sweetness attribute in the evaluation of sediment composition and depositional geometry in coast-perpendicular subbasins, South Texas Gulf: presented at AAPG Annual Conference & Exhibition, Calgary, Alberta, Canada, April 19-22, 2016.

Application of the instantaneous quality factor (Q) in the characterization of the Austin Chalk and Eagle Ford Shale, South Texas: presented to AAPG, presented at Inaugural AAPG Unconventional Update, Austin, Tex., November 3-5, 2015.



Diffraction imaging of lithology and fluid saturation in fault zones within the Austin Chalk and Eagle Ford Shale, Maverick Basin, South Texas: presented to Society of Exploration Geophysicists, presented at International Exposition and 85th Annual Meeting, New Orleans, Louisiana, October 18-23, 2015.

3D Seismic visualization of minibasins controlled by shale tectonics in the Frio Formation, South Texas Gulf Coast: presented at Gulf Coast Association of Geological Societies (GCAGS) Annual Convention Meeting, New Orleans, Louisiana, October 5-8, 2013.

Velocity errors in migration: presented at The University of Texas Geophysical Research Seminar, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, August 2, 2013.

Applications of the instantaneous quality factor (Q) attribute in hydrocarbon exploration: presented at The University of Texas Geophysical Research Seminar, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, July 9, 2013.

Seismic inversion for shale gas/oil within the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas: presented at American Association of Petroleum Geologists 2013 Annual Convention and Exhibition, Pittsburgh, Pennsylvania, May 19-22, 2013.

Orientations of shale diapirs and minibasins within the Frio Formation, Gulf of Mexico: presented at The University of Texas Geophysical Research Seminar, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, February 1, 2013.

Seismic inversion for shale gas/oil in the Austin Chalk and Eagle Ford Shale in a submarine volcanic terrain, Maverick Basin, South Texas: presented to Researchers at the Bureau of Economic Geology, The University of Texas at Austin, presented at Bureau of Economic Geology Friday Seminars, The University of Texas at Austin, Austin, Texas, USA, December 11, 2012.

Seismic-attribute characterization of the Eagle Ford Shale, Dimmit County, South Texas: presented at American Association of Petroleum Geologists Annual Convention and Exhibition, Long Beach, California, 2012.

Seismic velocities and geopressure prediction: presented at The University of Texas Geophysical Research Seminar, Jackson School of Geosciences, The University of Texas at Austin, Austin, Texas, July 22, 2011.

An investigation of the petrophysical and acoustic properties of mass-transport sediments within the Oligocene Frio Formation, South Texas Gulf Coast: presented at American Association of Petroleum Geologists Annual Convention and Exhibition, Making the Next Giant Leap in Geosciences, Houston, Texas, April 10-13, 2011.

Value of 3D Seismic in the Eagle Ford, Dimmit County, South Texas: presented to Mudrock Systems Research Laboratory, presented at March 2011 meeting, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, March 9-10, 2011.

Measurement and identification of 3-D coherent noise generated from irregular surface carbonates: presented to Bureau of Economic Geology and The Institute for Geophysics, Jackson School of Geosciences, The University of Texas at Austin, presented at Geophysics Research Seminar, Austin, Texas, February 11, 2011.

Seismic attribute characterization of the Eagle Ford Shale, Dimmit County, South Texas: presented to Mudrock Systems Research Laboratory, presented at June 2010 meeting, Bureau of Economic Geology, The University of Texas at Austin, Austin, Texas, June 14, 2010.

Understanding lithologic significance of amplitude envelope and acoustic impedance within Oligocene and Miocene strata, South Texas Gulf Coast: presented to AAPG, presented at AAPG Annual Convention and Exhibition, New Orleans, Louisiana, April 11-14, 2010.

Understanding lithologic significance of amplitude envelope within Oligocene and Miocene

Strata, South Gulf Coast: presented to Geophysical Group, Jackson School Institute for Geophysics, The University of Texas at Austin, Austin, Texas, October 2, 2009.

Amplitude envelope and fault zone reflection phenomenon: presented to Geophysical Group, Jackson School Institute for Geophysics, The University of Texas at Austin, Austin, Texas, July 17, 2009.

Seismic interpretation of mass-moved sediments within the upper Oligocene Frio Formation, South Texas Gulf Coast: poster presented at American Association of Petroleum Geologists Annual Convention, Austin, Texas, July 7 2009.

Prestack velocity ratio scanning from PS-wave data: presented to Geophysical Group, Jackson School Institute for Geophysics, The University of Texas at Austin, Austin, Texas, March 6, 2009.

Seismic imaging of large channels in the Miocene interval, South Texas Gulf Coast: presented to Geophysical Group, Jackson School Institute for Geophysics, The University of Texas at Austin, Austin, Texas, October 24, 2008.

Fault imaging in hydrothermal dolomite reservoirs: A case study: presented at Development and Production Forum, Society of Exploration Geophysicists, Austin, Texas, 2008.

Fault controlled porosity within a Trenton-Black River hydrothermal dolomite reservoir, Essex County, Southern Ontario: presented at 72nd Annual International Meeting, American Association of Petroleum Geologists, Calgary, Alberta, 2005.

Prestack Vp/Vs scanning and automatic PS-to-PP time mapping using multicomponent seismic data: presented at Annual Meeting, Canadian Society of Exploration Geophysicists, Calgary, Alberta, 2004.

Vp/Vs from multicomponent seismic data and automatic PS to PP time mapping: presented at 73rd Annual International Meeting, Society of Exploration Geophysicists, Dallas, Texas, 2003.

## Activities of a Professional Nature

### Professional Societies

Abstracts Reviewer for SEG-AAPG International Meeting for Applied Geoscience & Energy (IMAGE-2023)

Abstracts Reviewer for SEG-AAPG International Meeting for Applied Geoscience & Energy (IMAGE-2024)

American Association of Petroleum Geologists

Canadian Society of Exploration Geophysicists

Society of Exploration Geophysicists

### Activities of a Professional Nature

Reviewer: Formation MicroScanner Providing Better Answer for Carbonate Secondary Porosity in Alamein Dolomite Formation, NW Desert, Egypt (by Mohamed R. Shalaby, Nurhazwana Jumat, and MdAminul Islam: Geosciences) (February 28-March 15, 2018)

Reviewer: Diffraction Enhancement through Pre-Image Processing: Applications in Field Data Sarawak Basin, East Malaysia (by Yasir Bashir, Deva Prasad Ghosh, Hammad Tariq Janjuah, and Chow Weng Sum, Geosciences) (January 10-February 8, 2018)

Reviewer: Feasibility Study of SQp and SQs Attributes Application for Facies Classification (by Maman Hermana, Jia Qi Ngui, Chow Weng Sum, and Deva Prasad Ghosh: Geosciences) (January 2-8, 2018)

Reviewer: Automatic NMO Correction and Full Common Depth Point NMO Velocity Field Estimation in Anisotropic Media (by Mohamed Sedeka, Lutz Grossa, and Stephen Tysona:

Journal of Pure and Applied Geophysics) (January 7-July 31, 2016)

Reviewer, Development of software for data analysis and image reconstruction in small-animal positron emission tomography (PET), International Journal of Biomedical Engineering (July 9-24, 2013)

Reviewer, Assessing the seal competence of mass-transport deposits using seismic texture: a geophysical and petrophysical approach: AAPG Bulletin (April 17-June 15, 2013)

Reviewer, An Environmentally-friendly, integrated seismic imaging method and its application for coal exploration in the Miocene, Soma Basin, Western Turkey: International Journal of Oil, Gas, and Coal Technology (2013)

Reviewer, Identification of waterflooded zones and the impact of waterflood on reservoir properties of the Funing Formation (Paleogene), Gao 6 Fault-Block, Gaoji Oilfield, Subei Basin, China: JZUS-A (Applied Physics and Engineering) (2012)

Reviewer, Interpreting structural controls on hydrate and free-gas accumulation using well and seismic information from the Gulf of Mexico: Geophysics (March 20-August 4, 2009)

Reviewer, Wavelet-preserved PP- and PS-wave registration: Geophysics (2009)

## Funding

### Research Support

Research Associate: STARR PROJECTS: Lavaca Bay, CML, TC Oil, Caddo, Miocene Refugio County, and Serpentine Williamson County (September 1, 2011-August 31, 2015; \$230,000.00 of \$2.2 MM).

Research Associate: STARR (September 1, 2012-July 20, 2015; \$200,000 of \$2.2 MM).

## Publications

### Peer Reviewed Authored Books

Ogiesoba, O. C., and Ambrose, W. A., 2021, A systematic approach to identifying hydrocarbon sweet spots using integrated seismic multiattribute, wireline-log, and core analyses: case study from the Upper Cretaceous Taylor Serbin field, southeast Texas: The University of Texas at Austin, Bureau of Economic Geology, Report of Investigations, v. 287, 76 p., <http://doi.org/10.23867/RI0287D>.

### Peer Reviewed Journal Articles

Ogiesoba, O. C., and Palacios, F. C., 2025, Photoelectric factor characterization of a mixed carbonate and siliciclastic system using machine-learning methods: Pennsylvanian canyon and Strawn reef systems, Midland Basin, West Texas: Geosciences, v. 15, no. 1, article no. 3, 28 p., <http://doi.org/10.3390/geosciences15010003>.

Karakaya, S., Ogiesoba, O. C., Olariu, C., and Bhattacharya, S., 2024, Generating 3D lithology probability volumes using poststack inversion, probabilistic neural networks, and Bayesian classification -- a case study from the mixed carbonate and siliciclastic deposits of the Cisco Group of the Eastern Shelf of the Permian Basin, north-central Texas: Geophysics, v. 89, no. 2, p. B131-B146, <http://doi.org/10.1190/GEO2023-0157.1>.

Karakaya, S., Olariu, C., Kerans, C., Ogiesoba, O. C., Steel, R., and Palacios, F., 2024, Icehouse mixed carbonate and siliciclastic sequence evolution based on 3D seismic analysis: insights from the Eastern Shelf of the Permian Basin, Texas: Marine and Petroleum Geology, v. 170, no. 107094, 18 p., <http://doi.org/10.1016/j.marpetgeo.2024.107094>.

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Ogiesoba, O. C., and Zeng, H., 2022, Identification of sandstone-rich zones in upper bathyal, deep water environment on south Texas Gulf Coast: *Interpretation*, v. 10, no. 2, p. T265-T278, <http://doi.org/10.1190/INT-2021-0139.1>.

Ogiesoba, O. C., Ambrose, W. A., and Loucks, R. G., 2019, Investigation of seismic attributes, depositional environments, and hydrocarbon sweet-spot distribution in the Serbin field, Taylor Formation, Southeast Texas: *Interpretation*, v. 7, no. 1, p. T49-T66, <http://doi.org/10.1190/INT-2018-0041.1>.

Ogiesoba, O. C., and Eluwa, A. K., 2019, Comparison of structural styles observed in upper Eocene (Jackson Group) and Oligocene (Vicksburg Group) strata within the Rio Grande and Houston Embayments southwest and northeast of the San Marcos Arch, Refugio and Calhoun Counties, South Texas Gulf Coast: *GCAGS Journal*, v. 8, p. 170-190.

Eluwa, A., Mohrig, D., Ogiesoba, O. C., and Ambrose, W. A., 2018, Depositional settings and history of the Lower Miocene Fleming Group, Refugio County, Texas, as defined using seismic geomorphology: *Marine and Petroleum Geology*, v. 92, p. 565-581, <http://doi.org/10.1016/j.marpetgeo.2017.11.021>.

Ogiesoba, O. C., Ambrose, W. A., and Loucks, R. G., 2018, Application of instantaneous-frequency attribute and gamma-ray wireline logs in the delineation of lithology in Serbin field, Southeast Texas: a case study: *Interpretation*, v. 6, no. 4, p. T1023-T1043, <http://doi.org/10.1190/INT-2018-0067.1>.

Ogiesoba, O. C., 2017, Application of thin-bed indicator and sweetness attribute in the evaluation of sediment composition and depositional geometry in coast-perpendicular subbasins, South Texas Gulf Coast: *Interpretation*, v. 5, no. 1, p. T87-T105, <http://doi.org/10.1190/INT-2015-0213.1>.

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Klovov, A., Irkabaev, D., Ogiesoba, O. C., and Munasypov, N., 2015, Correlation between seismic diffractions extracted from vertical seismic profiling data and borehole logging in a carbonate environment: *Interpretation*, v. 3, no. 2, p. T121-T129, <http://doi.org/10.1190/INT-2014-0156.1>.

Ogiesoba, O. C., and Hernandez, R., 2015, Diapiric shale and coast-perpendicular, fault-related subbasins, south Texas Gulf Coast: *Interpretation*, v. 3, no. 2, p. T43-T56, <http://doi.org/10.1190/INT-2014-0016.1>.

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Ogiesoba, O. C., 2010, Porosity prediction from seismic attributes of the Ordovician Trenton-Black River groups, Rochester field, southern Ontario: AAPG Bulletin, v. 94, no. 11, p. 1673-1693.

Ogiesoba, O. C., and Hart, B. H., 2009, Fault imaging in hydrothermal dolomite reservoirs: a case study: Geophysics, v. 74, no. 3, p. B71-B82.

### Non Peer Reviewed Journal Articles

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## Conference Proceedings

Ogiesoba, O. C., 2023, Seismic reservoir characterization of the Strawn Group, Northern Part of the Eastern Shelf, King County, North-Central Texas: case study, Third International Meeting for Applied Geosciences and Energy Expanded Abstracts, Houston, Tex., 5 p.

Ogiesoba, O. C., and Klovov, A., 2016, Seismic diffraction imaging of lithology in fault zones and hydrocarbon sweet spots within the Maverick Basin, South Texas, Unconventional Resources Technology (URTeC) Conference, San Antonio, Tex., 8 p.

## Contract Reports

Ambrose, W. A., Smith, D. C., Cutright, B. L., Scanlon, B. R., Reedy, R. C., Elliott, B. A., Paine, J. G., Foss, M. M., Tremblay, T. A., Wolaver, B. D., Loucks, R. G., Frébourg, G., Hentz, T. F., Ogiesoba, O. C., Olariu, M. I., Fu, Q., Zeng, H., E. L. Frost, III, Hamlin, H. S., Nance, H. S., Duncan, I. J., Hammes, U., Rogers, H., Clift, S. J., Sivil, J. E., Zhang, T., Reed, R. M., Baumgardner, R. W., Jr., Eastwood, R., Breton, C., Rowe, H. D., Carr, D. L., Dunlap, D. B., Gale, J. F. W., and Peng, S., 2014, State of Texas Advanced Resource Recovery (STARR) progress report: Bureau of Economic Geology, Biennium prepared for Texas State Comptroller of Public Accounts, 90 p.

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## Workshop Workbooks

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