

Osareni Christopher Ogiesoba

Professional Summary

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Academic Background

B.Sc. Geology, University of Benin, Benin City, Nigeria, 1979
M.Sc. DIC, Geophysics, Imperial College of Science and Technology, Royal School of Mines, London, England, 1983
M.Sc. Applied Seismology, University of Calgary, Alberta, Canada, 2004
Ph.D. Earth and Planetary Sciences, McGill University, Montreal, Quebec, September 2007

Areas of Expertise

- A. Seismic interpretation of depositional systems.
- B. Seismic data processing and seismic anisotropy.
- C. Multicomponent data processing and velocity ratios estimation for reservoir characterization.
- D. Seismic modeling.
- E. Acreage evaluation and prospect generation.
- F. 3D seismic attributes-based rock property prediction in hydrothermal dolomite reservoirs.

Professional Work Experience

- A. Present Position: Research Associate, Bureau of Economic Geology, The University of Texas at Austin (October 2007 - Present).

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; pre-stack velocity analysis; development of post-stack velocity analysis algorithm.

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

- C. 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.

- D. 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.

- E. Geophysical Advisor, Mobil Corporation (1999 - 2000).

Team leader of reservoir management team (multidisciplinary team): Mobil Southwestern oil fields, Niger Delta, West Africa.

- F. 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.

- G. Geophysical Advisor, Dallas, Texas, Mobil Corporation (1996 - 1997).

Reservoir characterization and gas injection project, Mobil Producing Nigeria Southwestern oil fields, Niger Delta, West Africa.

- H. Senior Staff Geophysicist, Houston, Texas, Mobil Corporation (1995 - 1996).

Deep-water block seismic evaluation: Mobil Western block, Niger Delta, West Africa.

- I. 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.

- J. 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.

- K. 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.

- L. 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.

- M. 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.

N. 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.

Professional Societies

American Association of Petroleum Geologists
Canadian Society of Exploration Geophysicists
Society of Exploration Geophysicists

Awards and Honorary Societies

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

Publications

Articles

Peer Reviewed

Ogiesoba, O. C., and Hammes, U., 2012, Seismic interpretation of mass-transport deposits within the upper Oligocene Frio Formation, south Texas Gulf Coast: AAPG Bulletin, v. 96, no. 5, p. 845–868.

Ogiesoba, O. C., Wright, W., Wang, F. P., Popini, M. V., Franco, M. P., Lourenco, A. T., and da Silva, G. B. D., 2011, Seismic conditioning and attenuation of high-angle coherent noise in a mixed carbonate and siliciclastic setting, Campos Basin, offshore Brazil: a case study: Geophysics, v. 76, no. 5, p. B199–B212.

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

Ogiesoba, O. C., 2009, Hydrocarbon prospecting in Ordovician Trenton–Black River, *in* Laubach, S. E., and Tinker, S. W., eds., 2009, Earth's art: celebrating the Centennial of the Bureau of Economic Geology, 1909–2009: The University of Texas at Austin, Bureau of Economic Geology, p. 108–109.

Ogiesoba, O. C., and Hart, B. S., 2009, Amplitude envelope and fault zone reflection phenomenon, *in* Society of Exploration Geophysicists Annual Meeting, Houston.

Ogiesoba, O. C., and Stewart, R. R., 2004, Prestack Vp/Vs scanning and automatic PS-to-PF mapping using multicomponent seismic data, *in* Canadian Society of Exploration Geophysicists Annual Convention, Calgary, Expanded Abstracts.

Ogiesoba, O. C., and Stewart, R. R., 2003, Vp/Vs from multicomponent seismic data and automatic PP time mapping, *in* Society of Exploration Geophysicists, Dallas, Expanded Abstracts, p. 789–792.

Abstracts

Ogiesoba, O. C., Eastwood, Ray, Hammes, Ursula, and Ambrose, W. A., 2012, Seismic-attribute characterization of the Eagle Ford Shale, Dimmit County, south Texas (abs.): American Association of Petroleum Geologists, Annual Convention, Abstract 1231149, 1 p.

Ogiesoba, O. C., Hammes, Ursula, and Mousavi, M., 2011, An investigation of the petrophysical and acoustic properties of mass-transport sediments within the Oligocene Frio Formation, South Texas Gulf Coast (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition Abstracts Volume, v. 20, p. 134.

Ogiesoba, O. C., and Hammes, Ursula, 2010, Understanding lithologic significance of amplitude envelope and acoustic impedance within Oligocene and Miocene strata, South Texas Gulf Coast (abs.): American Association of Petroleum Geologists Annual Convention & Exhibition, v. 19, p. 191.

Johnson, B. E., Ogiesoba, O. C., and Hammes, Ursula, 2009, Techniques for imaging 4th- and 5th-order shelf sequences in 3-D seismic data: Miocene, South Texas Gulf Coast (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 109.

Ogiesoba, O. C., and Hammes, Ursula, 2009, Seismic interpretation of mass-moved sediments within the upper Oligocene Frio Formation, South Texas Gulf Coast (abs.): American Association of Petroleum Geologists Annual Convention, v. 18, p. 157.

Ogiesoba, O. C., and Hart, B. S., 2008, Fault imaging in hydrothermal dolomite reservoirs: A case study (abs.), *in* Society for Exploration Geophysicists, Development and Production Forum, Austin.

Hammes, Ursula, and Ogiesoba, Osareni, 2008, Seismic imaging of sediment ridges in growth-faulted subbasins of the Oligocene of the South Texas Gulf Coast—are they shale, salt, or seismic artifacts? (abs.): AAPG 2008 Annual Convention and Exhibition Abstracts Volume, v. 17, p. 74.

Ogiesoba, O. C., and Hart, B. S., 2005, Fault controlled porosity within a Trenton-Black River hydrothermal dolomite reservoir, Essex County, Southern Ontario (abs.), *In* AAPG Convention, Calgary, Alberta, Canada.

Ogiesoba, O. C., and Stewart, R. R., 2003, Vp/Vs from multicomponent seismic data and automatic PS to PP time mapping (exp. abs.), *in* Society of Exploration Geophysicists, Dallas, Expanded Abstracts, p. 789–792.

Ogiesoba, O. C., and Stewart, R. R., , Prestack Vp/Vs scanning and automatic PS-to-PP time mapping using multicomponent seismic data (exp. abs.), *in* Canadian Society of Exploration Geophysicists, 2004 Annual Convention, Calgary, Expanded Abstracts.

Contract Reports

Wright, Wayne R., Wang, F. P., Zahm, L., and Ogiesoba, O. C., 2008, Reservoir characterization, Albian carbonate succession, Pampo field: The University of Texas at Austin, Bureau of Economic Geology, phase 2 summary report prepared for Petrobras, 179 p.

Thesis

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

Dissertation

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

Lecturing

Lectures and Addresses

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.

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 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.

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.