

Lawrence Folajimi Awosika (Nigeria)

Occupational objectives

A professional position of challenge where my knowledge in Oceanography, Marine Geology/Geophysics, Hydrography, Land Ocean Interactions, Coastal and Marine Management in general and project management can be fully utilized.

Personal information

Date of birth: 27 July 1949

Place of birth: Ondo, Ondo State, Nigeria

Education

Aquinas College Akure Ondo State Nigeria 1964-1968

West African School Certificate Grade 1.

Howard University Washington, D.C., United States of America 1974-1977

B.Sc. Geology G.P.A., 3.36 Cum Laude

George Washington University Washington, D.C., USA 1978-1980

M.Sc. Geology 1980

Emphasis: Geophysics, Sedimentology, Stratigraphy, Field Geology and Geochemistry
Research: Seismic and Gravity Survey of Triassic Sediments in Arcola Quadrangle, Virginia, USA

Thesis: "Magnetic Survey of Basalt Flows in Remington Quadrangle, Virginia, USA

University of Obafemi Awolowo Ile Ife.

PhD. Applied Geophysics 2005

Thesis: Geophysical Survey of Avon Canyon in the Western Nigeria Continental Shelf.

Emphasis: Seismic interpretation and continental shelf transport/circulation dynamics and coastal area implications

Post-graduate training

Diploma, Marine Geophysics

Spanish Institute for Oceanography, Fuengirola, Malaga, Spain, June to Oct 1985

Course on Ocean Waves and Tides

International Center for Theoretical Physics

Trieste, Italy. Sept. 26-Oct. 28, 1988

Seventh Sea Level Training Course

Proudman Oceanographic Laboratory, Merseyside Bidston United Kingdom

12-30 June 1989. Course organized by the Intergovernmental Oceanographic Commission (IOC) of UNESCO for Global Sea Level Observing System (GLOSS)

Five-month work study at Dept of Oceanography, University of Southampton, United Kingdom, Oct. 1990 to March 1991 ("Sediment transport dynamics of the western Nigerian Continental Shelf")

Certificate of Achievement for successfully completing Mobil/Nigeria OIL MAP Training course May 1998

Professional awards

Best NIOMR Scientist 1999

Commander — Federal Republic of Equatorial Guinea. Merit award by the President of Equatorial Guinea for outstanding services during the Nigeria/ Equatorial Guinea Maritime Boundary Negotiations, 2002

Professional Merit Award of Excellence, 2004: Fisheries Society of Nigeria

Intergovernmental Panel on Climate Change (IPCC) Award presented for contributing to the award of the NOBEL PEACE PRIZE for 2007 to the IPCC

Emeritus member of the United Nations Joint Group of experts on the Scientific Aspects of Marine Protection (GESAMP), 10 May 2011

Intergovernmental Oceanographic Commission (IOC) of UNESCO Medal of Excellence in Oceanography. Awarded at the UNESCO Headquarters Paris on 22 June 2011

Affiliations

American Geophysical Union

Association of American Petroleum Geologist

Nigerian Association of Petroleum Explorationists

Geological Society of Nigeria

Association of Oceanographers

Nigerian Association of Oceanographers

International Coastal and Ocean Organization

Employment chronology

Washington Metropolitan Area

Transit Authority (METRO)

Washington, D.C., U.S.A., Dec. 1972 to Dec. 1977

Involvement: Maintenance Shop Mechanic, Later Assistant Foreman Mechanic Workshop, Bladensburg Road, Washington, D.C., USA

Howard University Washington D.C., U.S.A., Jan. 1976 to April 1977

Involvement: Graduate Assistant (Sedimentation and Physical Geology).

University of Maryland

College Park, Maryland, U.S.A., Dec. 1977 to April 1978

Involvement: Laboratory Instructor — Physical Geology

Howard University

Washington, D.C, U.S.A., Aug. 1980 to Dec. 1981

Involvement: Lecturer — Geophysics and Environmental Geology

Nigerian Institute for Oceanography and Marine Research (NIOMR) P.M.B.12729

Victoria Island Lagos.

21 March 1983 to present

Present position: Director

Responsibilities

Director and Head of Department of Marine geology/geophysics

Project leader: Geological/Geophysical survey of the Nigerian Continental Margin.

Project leader: Beach erosion, coastal zone management and ocean dynamics studies (Assistant project leader 1983 to 1990, Project leader 1990 to present).

Project leader: Heavy mineral provenance of the Niger/Benue catchment basin and beach sediments along the Nigeria coastline (1983 to 1985).

Project leader: Offshore canyons, possible importance on erosion along the western Nigerian coastline. Project involves: Bathymetric charting of the canyons, current metering, sedimentological and mineralogical studies, shallow seismic and side scan and general hydrodynamic of shelf.

Project Leader — Geology and general Oceanography of coastal Lagoons (Lagos and Lekki lagoons).

Project leader: Global Climate Change and Sea Level Rise studies in Nigeria.

Chairman, NIOMR Publication Committee (2007 to present).

National Coordinator — Ocean data and information for Africa (ODINAFRICA) Project. Supervised by IOC of UNESCO

Contact Person and officer in-charge of Global Sea Level Observing System (GLOSS) tide gauge in Nigeria as well as NOAA (National Oceanographic and Atmospheric Administration of the United States of America) Next Generation Water Level Measuring System (Tide Gauge) in Nigeria.

Nigeria Desk officer for IOC (UNESCO) activities (1990 to present).

Project Leader: Video mapping of the entire Nigerian coastline for the assessment of impacts of 1m sea level rise on the Nigeria coastline. Collaborative project between NIOMR and the Center for Coastal Research of the University of Maryland, College Park, U.S.A.

National Coordinator COMARAF (Regional Project for Training and Research of African Coastal Systems).

Project leader: IOC/FAO/UNEP project-Study of physical/Geological oceanographic aspects affecting transport and dispersion of pollutants in Lagos Lagoon Nigeria.

Participating geophysicist in the African Mapping project (AMMP) in collaboration with Paterson, Grant and Watson Ltd of Canada International Institute of Aerospace and Earth Sciences Delft, the Netherlands (ITC) and the University of Leeds, United Kingdom (ULIS).

Principal scientist in charge of Shipboard Environmental Acquisition System (SEAS III) in the South Atlantic. A NOAA International project in support of the World Ocean Climate experiment — WOCE.

Project leader and coordinator: Study of drainage systems in Lagos and Victoria Island and effects of sea level changes. A project funded by the Coast and Small Island Division UNESCO Paris 1998-1999

Member- Interministerial Committee on the final solution to the erosion problem on the Bar Beach, Lagos

Part time Lecturer of Marine Geology/Oceanography — University of Lagos Akoka, Lagos - Department of Marine Sciences (August 1996 to 2000).

Guest Professor of Marine Geology/Geophysics — Second Institute of Oceanography Hangzhou China. 2011 to 2014

National Assignments

Member — Interministerial Committee on the final solution to the erosion problem on the Bar Beach, Lagos 1999.

Member: Nigeria/Equatorial Guinea maritime boundary negotiating team (National Boundary Commission).

Member: Nigeria/Sao Tome and Principe maritime boundary negotiating team. (National Boundary Commission).

Member: Nigeria/Benin Republic maritime boundary negotiating team (National Boundary Commission).

Member: Nigerian delegation to the Hague and expert on Maritime boundary — Nigeria/Cameroon Boundary Case at The Hague (National Boundary Commission).

Member and leader of the Technical Team on the Nigerian Extended Continental Shelf Claim project (National Boundary Commission).

National Coordinator: Global Environmental Facility (GEF) Medium Sized project on the Development and Protection of the Coastal and Marine Environment in Sub-Sahara Africa — Nigerian Integrated Problem Analysis (2002 to present). A GEF funded Project under the Federal Ministry of Environment.

Member and Technical leader: National Interministerial Committee on the planning of the Super Prep Comm for the AFRICAN PROCESS to be held in Abuja June 17-19, 2002.

Task Team Leader: Global Programme of Action (GPA) Task team on the Development of a National Plan of Action (NPA) for the development and Protection of the coastal and Marine area of Nigeria. A United Nations Environmental Programme (UNEP/GPA) funded Project under the Federal Ministry of Environment (April 2002-April 2007).

Activities in the commission on the limits of the Continental Shelf (CLCS)

Elected member and Vice Chairman of the UNCLOS (United Nations Convention on the Law of the Sea) Commission on the Limits of the Continental Shelf (CLCS) 1997-to 2012.

Vice Chairman: United Nations Commission on the Limits of the Continental Shelf (1997-2002, 2002 to 2007 and 2007 to 2012).

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made the Brazil.

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made by Russia

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made by Australia.

Lecturer — DOALOS Training on Article 76 Accra Ghana 5-9 December 2005

Lecturer — DOALOS Training on Article 76 Cape Town South Africa 13 to 17 August 2007.

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made by Norway.

Member and Chairman: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made the United kingdom in the Ascension Area

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made jointly by France, Ireland, Spain and the UK

Member: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made by Japan.

Member and Chairman: United Nations CLCS subcommission for the consideration of submission of Extended continental shelf claim made the Philippines

Other international assignments undertaken for United Nations agencies and other international agencies

Intergovernmental Oceanographic Commission (IOC) of UNESCO Paris. Consultant to IOC during the IOC/FAO/UNEP workshop on qualitative assessment of pollution in the West and Central African Region (WACAF 11 Phase 2). Lectured participants and conducted field demonstration on Physical aspects of transport and dispersal of pollutants in the coastal and marine environment. Calabar, 19 to 23, 1991.

IOC Consultancy Mission to Nigeria, Benin, Ghana, Cote d'Ivoire, and Senegal, July to September 1992 in respect of:

Training of regional scientists and calibration of equipment for the IOC/FAO/UNEP WACAF 2 PHASE 2 Project-Study of Physical Oceanographic factors responsible for transport and dispersion of pollutant in coastal waters.

To facilitate progress in the analysis of data collected during the First IOCEA cruise in the Gulf of Guinea.

ROPME/IOC/NOAA 100 cruise in the Persian Gulf (ROPME Sea Area) to assess the impacts of the Gulf war on the marine environment. IOC consultant onboard NOAA R/V Mt. Mitchell, Leg VIA. 20 May to 30 June 1992, Kuwait to Abu Dhabi.

Member of UN Law of the Sea Office group of technical experts on the definition of continental shelf, Law of the Sea office, United Nations, New York, New York 1993-96.

IOC mission to Mombasa Kenya to lecture on the Oceanographic survey techniques applied to acquisition of marine environmental data during the UNEP/FAO/IOC/IUCN workshop on EAF/5: Integrated coastal zone management workshop for the eastern Africa, 5-23 July 1994.

UNEP/FAO/IOC/IUCN mission to Kenya, Tanzania, Zanzibar, Seychelles, Madagascar, La-Reunion, Mauritius, Comoros and Mozambique to assess national capabilities for the implementation of EAF/5: Integrated coastal zone management for eastern Africa. 13 Nov. 1993 30 Jan. 1994.

Member IOC Editorial Board for the International Bathymetric Map of the Central Eastern Atlantic (IBCEA) 1989-present.

Vice Chairman United Nations Group of Experts on the Scientific Aspects of the Marine Environmental Protection (GESAMP)

Member United Nations Group of Experts on the Scientific Aspects of the Marine Environmental Protection (GESAMP) working group 30 on impacts of anthropogenically mobilized sediments in coastal areas (1992-present).

Member UNEP Task Team on Global Climate Change and impacts on the West and Central African Region (1990- 2004).

Intergovernmental Oceanographic Commission Committee of the East Central Atlantic (IOCEA) Regional Coordinator for Global Level of the Sea Surface (GLOSS) 1993-present.

Consultant to FAO on Integrated Coastal Area Management (ICAM) project for the Gambia — Project WACAF 11 for FAO/UNEP (1995-present).

Member of Scientific Steering Committee for Land Ocean Interaction in the Coastal Zone (LOICZ) of the International Geosphere Biosphere Programme (IGBP) 1996-2002.

Member IOC ad-hoc committee on DOSS II (1995-2000)

Member of Joint IOC/SCOR/SCOPE assessment of the State of Marine Science and its Contribution to Sustainable Development. 1995-1999.

Member — Lead author: African region special report on the Regional Impacts of Climate Change for the Intergovernmental Panel on Climate Change (IPCC) 1997.

IOCEA (Western African region) regional coordinator for IODE (International Oceanographic data exchange) of IOC (1997- present).

Member of Inter-Governmental Panel on Climate Change (IPCC) working group on the second assessment.

Member of advisory board on Marine Natural Resources Management of ACOPS (Advisory Committee on Protection of the Sea) 1997-2005.

Member of the UNEP group of experts on the development of a GEF project for a Global International Waters Assessment (GIWA) 1997.

Member Intergovernmental Oceanographic Commission (IOC) group of expert on GOOS (Global Ocean Observing System) Coastal Module.

Member United Nations Environment Program (UNEP) group of expert on the revitalization of Abidjan and Nairobi Conventions.

Participating Scientist — Synthesis and Upscaling of Sea level Rise Vulnerability Assessment Studies (SURVAS) Project funded by European Union. International Project Office — Middlesex University Enfield United Kingdom. 1999

Member of Working Group on the Development of Methodology for the implementation of the Global International Waters Assessment (GIWA). 2000-2003

Nigerian National Coordinator: Global Environmental Facility Medium Sized Sub Sahara African Project on Development and Protection of the Coastal and Marine Environment in Sub Sahara Africa. 2001 to 2003.

National Coordinator: Oceanographic Data and Information in Africa (ODINAFRICA) 2000 to present.

Task Team leader — Preparation of a national plan of action for the protection of the Nigerian marine environment from land based activities. A GPA-UNEP project. Implemented by the Ministry of Environment Abuja. 2002 to present.

Head Intergovernmental Oceanographic Commission of the Central Eastern Atlantic (IOCEA-UNESCO) Project Office Lagos. 2001 to present.

Technical expert/Resources person at the United Nations Division of Ocean Affairs and Law of the Sea (DOALOS) training on Article 76 for African States, Accra Ghana 5-9 November 2005.

Chairman — UN GESAMP Panel appointed to review the UN Assessment of Assessment (AoA) report (2008 to present).

UNDP International Consultant (Coastal Engineering/Planning/Management) Liberia LDCF/GEF/UNDP Coastal Project on mitigating coastal erosion and sea level rise. 2009-2010.

International oceanographic research cruises

Participated in a multi-disciplinary research cruise on board R/V CORNIDE SAVEDRA in the Balearic continental shelf western Mediterranean code named GEOCARBAL 85 (May 12 to June 10, 1985). Objective of cruise was to establish the bio-sedimentological and geophysical models of the Balearic shelf using 3.5 khz seismic and side scan

Participated in the cruise Gravity survey of the Gulf of Guinea shelf on board R/V STARELLA 24 September to 6 October 1987. A United States of America/Nigeria Collaborative project funded by the U.S. Government.

Cruise Leader: First Intergovernmental Oceanographic Commission (IOC) of UNESCO cruise in the Gulf of Guinea, on board NIOMR R/V SARKIM BAKA 10-25 Oct. 1989. Objectives of cruise was to collect hydrodynamic and marine geological data affecting coastal erosion in the west and Central African Region. Report of cruise and analysis of data already submitted to IOC.

Intergovernmental Oceanographic Commission/National Oceanic and Atmospheric Administration of the United States of America/Regional Ocean for the Protection of the Marine Environment of the Persian Gulf (IOC/NOAA/ROPME) 100 day cruise in the Persian Gulf to assess the impacts of the Gulf war on the marine environment of the Gulf onboard NOAA's R/V MT. MITCHELL. Participated as IOC consultant on leg six, 20 to 30 May 1992.

Cruise leader on a total of 8 sea cruises since 1984 in the Nigerian continental shelf on board NIOMR's R/V OKION and SARKIM BAKA.

Publications

Awosika, L. F., (1980). Magnetic survey of Jurassic Basalt flows in the Northwest portion of the Remington 7 ½ minute Quadrangle in Fauquier Culpeper counties Virginia, USA. *GEOLOGOS* VI No 1, Published by the Department of geology and Geography, Howard University Washington D.C. p 37-64.

Ibe, A. C., Awosika, L. F., Antia, E. A., (1984a). Progress report No 2. Coastal erosion research programme. Work accomplished in 1983. *NIOMR Special Pub.* 106p.

Ibe, A. C., Awosika, L. F., (1986a). Sedimentology of beaches of barrier bar complexes in Nigeria. *NIOMR Tech. Paper No.* 28.

Ibe, A. C., Awosika, L. F., Ihenyen, A. E., Tihamiyu, A. I., (1986b). The erosion problem at Victoria Island, Lagos (1900 to present) and its solution. In Proc. *National Seminar on flooding and erosion along the Nigerian and similar coastlines.* University of Lagos, May 1986. Contribution No 6.

Awosika, L. F. and Akpati, B. N., (1988). Grain size and heavy mineral provenance of the Niger/Benue drainage basin and other river basins in Nigeria. *NIOMR Tech. Paper No.* 32.

Awosika, L. F., (1988). Bathymetric and Geomorphic features of the western Nigerian Continental shelf. In Proc. *Joint Oceanographic Assembly 1988,* Acapulco Mexico.

Ibe, A. C., Awosika, L. F., Ihenyen, A. E. and Ibe, C. E., (1989). Erosion management strategies for the Mahin mud beach, Ondo state, Nigeria. In proc. *Coastal Zone '89. American Society of Civil Engineers,* p.1740-1754.

Ibe, A. C., Awosika, L. F., Ihenyen, A. E., Tihamiyu, A. I. and Ibe, C. E., (1989). A study of currents and possible scouring effects at a proposed Oil well location in the Cross river Estuary, Nigeria. *Geomorphology and Geoecology. Second International Conference on Geomorphology,* Sept. 3-9, 1989.

Ibe, A. C., Ajao, E. A., Oyewo, E. O., Awosika, L. F., Ihenyen, A. E., Tihamiyu, A. I., Ibe, C. E., Inegbedion, L.E. and Adekanye, J. E. (1989). Physico-chemical parameters and dynamics of the ocean off Lagos. Cruises 1, 2, and 3. *A special report for the Nigerian Navy,* 38p.

Awosika, L. F., Ihenyen, A. E. and Tihamiyu, A. I. (1989). Marine Geology of Lekki lagoon, Nigeria. A report for *COMARAF* project.

Awosika, L. F. and Ibe, A. C. (1989). Results of Recent Marine Related Projects in Nigeria including those executed with Remote Sensing Technology as a tool. In Proc. United Nations meeting of Experts on Remote Sensing Meteorology — Applications to resources and Coastal Management. Mas Palmas, Canary Islands, Spain. 8-12 May 1989.

Awosika, L. F., Ibe, A.C., Ibe, C.E., and Inegbedion, L. E., (1989a). Causes of coastal erosion along the Nigerian coastline. In Proc. *Conference on flood and drainage,* University of Ibadan, Nigeria. Aug. 15-18. 1989.

Awosika, L. F., Ibe, A. C., Ibe, C. E. and Inegbedion, L. E., (1989b). Coastal erosion in Nigeria: Causes, effects and solutions. In proc. *on the relationship between oil companies and the public,* sponsored by Gulf Oil Company Nigeria Ltd., NNPC, and the University of Benin. Petroleum Training Institute, Warri, Nigeria. Aug 6-8, 1989.

Ibe, A. C., Awosika, L. F., (1989). National assessment of the effects of sea level rise on the Nigerian Coastal Zone. In Proc. *International Conference on Global Climate Change at the Center for Climate Change,* University of Maryland, U.S.A. 9-23 Sept. 1989. p.164-199

Awosika, L. F., Ibe, A. C. and Udo-Aka, M. A., (1989). Impacts of sea level rise on the Nigerian Coastline. In Proc. Changing Climate and the Coast. *IPCC conference on Adaptive Responses to sea level rise and other impacts of Global climate change*, Miami, 27 Nov-1 Dec., 1989. Vol. 2 p 49-66.

Awosika, L. F., (1989). Coastal Geomorphology and effects of sea level rise on the West and Central African Region (WACAF). UNEP Task Team on impacts of Global Climate Change on the WACAF region. UNEP (OCA/PAC)WG.6/INFO.16.

Awosika, L. F., (1990). Coral Bank obstruction to trawling in the middle to outer continental shelf east and west of Lagos, Nigeria. *NIOMR* Pub. No 57, 13p.

Ibe, A. C., Awosika, L. F., Ibe, C. E. and Inegbedion, L. E., (1991). Monitoring of the 1985/86 Beach Nourishment Project at Bar Beach, Victoria Island, Lagos, Nigeria. In Proc. *Coastal Zone '91*. American Association of Civil Engineers. p.534-552.

Awosika, L. F., Ibe, A. C., Ibe, C. E. and Inegbedion, L. E. (1991). Geomorphology of the Lekki lagoon barrier coastline in Nigeria and its vulnerability to rising sea level. In Proc. *Coastal Zone '91*. American Society of Civil Engineers, p.2380-2393.

Awosika, L. F., (1991a). Geology, Hydrography, coastal erosion and settlement planning in relation to Fishery development in the Niger delta. In Proc. *International Fund for Agricultural development course on Niger delta Fishery development* Nov. 11, 1991, Uyo, Akwa Ibom.

Awosika, L. F., (1991b). Offshore Avon Canyon west of the Niger delta: Sedimentary Processes and possible implications for Hydrocarbon Entrapment: In Proceeding *Nigerian Association of Petroleum Explorationist 9th Annual Conference*, Nov. 20 to 22, 1991. p. 17

Awosika, L. F., Gregory T. French; Robert J. Nicholls and Ibe, C. E., (1992). The Impacts of Sea Level Rise on the Coastline of Nigeria: In Proc. *IPCC Symposium on the Rising Challenges of the Sea*. Margaritta, Venezuela 14-19 March, 1992. p.123-154.

Awosika, L. F., Ibe, A. C. and Ibe. C. E., (1992). Geomorphic features of the Gulf of Guinea Shelf. In Proc. *International Geological Congress*, Kyoto, Japan. Vol. 1 of 3 pp. 42.

Awosika, L. F., (1992a). Impacts of sea level rise on the Nigerian coastal zone. In Proc. *Symposium on the potential impacts of climate change for United Nations Missions*, U.N, New York, 14-15 April, 1992.

Awosika, L. F., (1992b), Coastal Erosion in West Africa: causes, effects and response options. In Proceedings *BORDOMER '92*. International Convention on Rational use of Coastal Zone, Bordeaux. 30 Sept to 3 Oct 1992.

Awosika L. F., and Adegbe T.A. (1993). Assessment of some sediment, foraminifera and current mooring data collected during the 100 day ROPME/IOC/NOAA cruise in the Persian Gulf: Implications for transport dynamics in the ROPME sea area. In proc. *International conference on the results of the ROPME/IOC/NOAA cruise in the ROPME Sea Area*. Kuwait, Jan. 1993.

Awosika L. F. (1993) Coastal erosion in Nigeria and some other African coastal states: Regional approach to response measures. In proc. *3rd meeting of the*

Inter-African committee on Oceanography, sea and inland fisheries. Cairo Egypt 12 to 17 April 1993.

Awosika L. F. (1993) The west African coastal zone: Regional approach to the process of Integrated coastal zone management policy. In proc. *World coast conference 1993*, Noordwijk The Netherlands.

Awosika L. F. (1993). Towards an Integrated coastal zone management policy for Nigeria in response to global climate change and sea level rise. In Proc. *IPCC world coast Preparatory conference on Integrated coastal zone management and response to climate change*. New Orleans, U.S.A 13-16 July 1993.

Awosika L. F. (1993). The Nigerian coast: Addressing the coastal Impacts of Climate Change through Integrated Coastal Zone Management (ICZM). In Proc. International conference on coastal zone management, World coast conference 1993, Noordwijk, The Netherlands.

Awosika, L. F., A. C. Ibe and C. E. Ibe (1993). Anthropogenic activities affecting sediment load balance along the West African coastline. *Coastlines of western Africa, Coastal zone 93*. Ed. Larry Awosika, Chidi Ibe and Peter Schroder. Pub. American Association of civil engineers N.Y., N. Y.

Ibe, A.C., Awosika, L.F. and Ibe, C. E. (1993) Factors responsible for varying granulometric characteristics of sediments from the western Nigeria coastline. *Coastlines of western Africa, Coastal zone 93*. Ed. Larry Awosika, Chidi Ibe and Peter Schroder. Pub. American Association of civil engineers N.Y., N. Y.

Dublin-Green, C. O., and Awosika L. F. (1993). Recent benthic Foraminifera as sedimentation tool in the Nigerian coastal environment. *Coastlines of western Africa, Coastal zone 93*. Ed. Larry Awosika, Chidi Ibe and Peter Schroder. Pub. American Association of civil engineers New York., New York.

Awosika, L.F., Ojo, O, Ajayi T.A. et al (1993). Implications of Climate Changes and Sea Level Rise on the Niger Delta, Nigeria Phase 1. A report for UNEP Nairobi.

Ojo, O, Awosika L. F. and Ibe, C. E, (1993). Implications of environmental dynamics for sustainable environment and resources of west and central Africa. *Coastlines of western Africa, Coastal zone 93*. Ed. Larry Awosika, Chidi Ibe and Peter Schroder Pub. American Association of civil engineers N.Y., N. Y.

Nicholls, R. J., Awosika, L. F., Niang-Diop, I, Dennis K. C. and French G. T. (1993). Vulnerability of West Africa to accelerated sea level rise. *Coastlines of western Africa, Coastal zone 93*. Ed. Larry Awosika, Chidi Ibe and Peter Schroder. Pub. American Association of civil engineers N.Y., N. Y.

Awosika, L.F. and Ibe Chidi (1993) Geomorphology and tourism related aspects of the Lekki barrier-lagoon coast in Nigeria, *In Tourism versus Environment: Case study for coastal areas*. Ed P.P Wong. Pub Kluwer Academic Publishers Dordrecht/Boston/London 1993.

Awosika, L. F. and Ibe, A. C. (1993). Geomorphology and littoral drift along the western Nigeria coastline. In proceedings *The Hilton head Island International coastal symposium*. V. 2. ed — P. Bruun.

Awosika, L. F. and Dublin-Green, C. O. (1994). Sand mining in the Lagos and Lekki lagoons and strategies for effective management. *Journal of Mining and Geology*. Vol. 30, 1994 No. 11. p. 137-139

- Awosika, L. F., Ibe, A.C., Oyewo A. and Ibe, C.E.(1994). Navigational and surveying techniques employed during the first IOCEA cruise in the Gulf of Guinea. In proc. *International symposium on the results of the first IOCEA cruise in the Gulf of Guinea*, 17-20 May 1994. Pub Centre for Environment and Development in Africa. p 14-18.
- Awosika, L. F. and Ibe, A. C (1994). Geomorphologic features of the Gulf of Guinea shelf and littoral drift dynamics. In Proc. *International symposium on the results of the first IOCEA cruise in the Gulf of Guinea*, 17-20 May 1994. Pub Centre for Environment and Development in Africa. p.21-27.
- Awosika, L. F., Collins, M. and Clay, A. T. (1994). Clay mineralogy variations in the Gulf of Guinea and implications for sediment transport dynamics. In Proc. *International symposium on the results of the first IOCEA cruise in the Gulf of Guinea*, 17-20 May 1994. Pub Centre for Environment and Development in Africa. p.99-103
- Folorunsho, R., Awosika, L. F. and Dublin-Green, C. O (1994). An assessment of river inputs into the Gulf of Guinea shelf. In Proc. *International symposium on the results of the first IOCEA cruise in the Gulf of Guinea*, 17-20 May 1994. p.163-172.
- Awosika L. F., Folorunsho, R., Isebor, C., Adegbe A, and Dublin-Green, C. O (1995). 1994 International Beach Cleanup Exercise at the Bar Beach Lagos Nigeria. *NIOMR Tech Pub. No. 98*. 14p
- Awosika L. F., Folorunsho, R., and A. T Adegbe (1995). Regional and International Efforts at understanding Land Ocean- Atmosphere Interaction in the Gulf of Guinea Shelf of the Eastern Tropical Atlantic. In Proceedings *In the Tropical Ocean Global Atmosphere (TOGA) Programme*. p 205-209.
- Awosika, L. F. (1995) Coastal changes in West Africa. In Proc. Conference on coastal change *BORDOMER* Report No. 105 supplement. p. 378-384.
- Folorunsho, R., Awosika, L. F. (1995). Meteorologically induced changes along the Nigerian coastal zone and implications for integrated coastal zone management. In Proc. Conference on coastal change *BORDOMER* Report No. 105 supplement. p 804-811.
- French G. T., Awosika, L. F. and Ibe, C. E. Sea Level rise and Nigeria (1995): Potential impacts and consequences. *Journal of Coastal Research* Special issue No. 14. p.224-242.
- Awosika L. F., (1995). Impacts of Global Climate Change and Sea Level Rise on Coastal Resources and Energy Development in Nigeria. In Proceedings *Global; Climate Change: Impact on Energy Development* Ed Eng J. C. Umolu P. E. p.83-88.
- Awosika, L.F., Dublin-Green, C.O. and Oyewo E.O (1996). Nearshore littoral drift cells along the Nigerian Coast: Implications for management of Petroleum industry wastes and oil spills. In Proc. *8th Biennial International Seminar on the Petroleum Industry and the Nigerian Environment*. Nov 17-21 1996. Port Harcourt, Nigeria.
- Awosika, L.F. (1996).Strategies for Implementing elements of Integrated Coastal Zone Management Plan in West Africa. In Proc. *Aquaculture In Africa 4th Session of the Inter-African Committee on Oceanography, Sea and Inland Fisheries*. Published by OAUST p.228-236.

- Folorunsho, R., and Awosika, L. (1997) Mapping inundation effects due to sea level rise along the Nigerian coastal zone using GIS. In Proc. *LOICZ 3rd Open Science Meeting*. The Netherlands 10-13 Oct 1997.
- Awosika L.F. (1997). Forging New Direction for Flooding and Erosion Control along the West African Coastal Zone. In Proc *Coastal Zone 97*. Boston USA. p.863-864
- Awosika, L. F. and Folorunsho, R. (1997). Land Ocean interaction in the Escravos Estuary. In Proc. *LOICZ 3rd Open Science Meeting*. The Netherlands 10-13 Oct. 1997.
- Awosika, L. F. and Ibe, A. C., (1998). Coastal circulation dynamics in the Gulf of Guinea: Important subsets of the Large marine Ecosystem Project. In: Ibe and Zabi (eds), State of the Coastal and marine Environment of the Gulf of Guinea. UNIDO/GEF GOG-LME Project, pp 111-118.
- Awosika L. F. (1998). Niger Delta Coastal Dynamics and Implications for Predicting Delta Stability. In Proc *World Delta Symposium* New Orleans, Louisiana, USA Aug 23-28, 1998.
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Principal — co author: Global Climate Change and the Rising Challenge of the Sea. Intergovernmental Panel on Climate Change Response Strategies Working Group May 1992.

Editor — Coastlines of Western Africa (Ed. Larry Awosika, Chidi Ibe and P. Schroeder). Published by the American Association of Civil Engineers New York, New York. 1993. 399p.

Co-author — Implications of Climatic Changes and Sea Level Rise on the Niger Delta, Nigeria. A report for UNEP.

Co-author — Global Climate Change and the Rising Challenges of the Sea. Report of the Coastal Zone Management Subgroup. Intergovernmental Panel on Climate Change Response Strategies Working Group May 1992.

Co-Author — Management Arrangements for the Development and Implementation of Coastal Zone Management Programmes. International Conference on Coastal Zone Management World Coast. The Netherlands 1-5 November 1993.

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International meetings organized

I have been responsible for successfully organizing the following International meetings and workshops:

IOC Regional Committee for the Central Eastern Atlantic second session. Hosted by the Nigerian Institute for Oceanography and Marine Research Lagos from 19-23 February 1990.

IOC International Workshop on the results of the first IOCEA cruise in the Gulf of Guinea. Hosted by the Nigerian Institute for Oceanography and Marine Research Lagos from 17-20 May 1994.

IOC/NIOMR Pilot training course on Physical Oceanography Hosted by the Nigerian Institute for Oceanography and Marine Research Lagos from 17-27 October 1994. Also was a resource person.

Chairman LOC for the IOC/JGOFS/LOICZ International workshop on continental shelf fluxes of Carbon, Nitrogen and Phosphorous. Hosted by the Nigerian Institute for Oceanography and Marine Research Lagos from 14-18 October 1996.

Coordinator and organizer of the International beach cleanup exercise in Nigeria in 1994, 1995 and 1996. This activity is globally coordinated by the Center for Marine Conservation in the United States of America.

Convener — African session on coastal erosion and flooding at the 1997 Coastal Zone conference in Boston July 1997.

International Coordinator — START/IOC/LOICZ Workshop on Climate Change and Coastal processes in West Africa, Cotonou 23-25 Nov 1998.

Conveyer and organizer — African session on Developmental conflicts along the African Coast. Coastal Zone 1999 Conference July 23-29, 1999 San Diego USA.

Special proficiency

Versatility in use of micro-computers for word processing, Electronic mail communication, analysis and evaluation of oceanographic data and information (e.g. Ocean-PC, GIS etc.)

Versatility in Automobile repairs and elementary electronics.

Vessel navigation using trisponder, syledis, satellite sat nav, GPS, Radar and other conventional methods.

Experienced in deployment of buoys, current meters, wave riders, tide gauges and other oceanographic equipment.

Have travelled far and wide in Africa as well other parts of the world.

Languages

English — Very proficient

French — slight

Spanish — slight