

CURRICULUM VITAE



NAME: FRANCIS EMILE ASUQUO (Professor);

Gender: Male

BIRTH: 2ND October, 1959

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OFFICE ADDRESS: Chemical Oceanography Programme, Physical Oceanography Department, Faculty of Oceanography, University of Calabar, PMB 1115, Calabar, Nigeria.

PHONE: +234 8063608143 **NATIONALITY:** Nigerian

Country of Residence: Nigeria

EDUCATIONAL BACKGROUND

Name and Place	Years Attended		Degrees and Academic Distinctions	Qualification/Certificates
	From	To		
Holy Trinity Secondary School, Mbiakong, Uyo, Nigeria	1972	1976	Division 1	West African School Certificate
University of Calabar, Calabar, Nigeria	1976	1980	2 nd Class Upper Division, BSc (Hons)	Chemistry
University of Ibadan, Nigeria	Oct. 1985	Sept 1986	MSc	Organic Analytical Chemistry
University of Calabar, Nigeria	1992	1994	PhD	Marine Environmental Chemistry
Institut für Meeresforschung, Bremerhaven, Germany.	1985	-	Diploma Certificate	Marine Pollution
University of Venice, Italy	1993	-	Diploma Certificate	Integrated Coastal Zone Management
Centre National des Sciences et Technologies Nucleaires (CNSTN), Tunisia	2010	-	Diploma Certificate	Marine Nutrient Chemistry
Oceanic Platform of the Canary Islands (PLOCAN), Spain	2017	-	Diploma	Ocean Gliders Technology

AREA OF SPECIALISATION/ RESEARCH INTEREST

Professor of Oceanography with specialization in Marine Biogeochemistry and Pollution. Research interests include fisheries and ecosystem, ocean pollution and toxicology, fate of pollutants eg endocrine disrupting chemicals (EDCs) and nano materials, coastal hydrodynamics, ecosystem health and climate change.

EMPLOYMENT RECORDS

I have worked in the University of Calabar for about 35 years now. During this period, I have taught several courses in the undergraduate and graduate programmes of Oceanography and Fisheries, mentored and supervised graduate students. I have served as a 3 times Head of Department of Physical Oceanography, Acting Director and Director, Institute of Oceanography, Pioneer Dean, Faculty of Oceanography, Acting Vice Chancellor, as well as Chairman, Committee of Deans, University of Calabar, Nigeria. Presently I am the Coordinator/ Desk Officer, U6 Consortium of African Universities UNICAL and the Coordinator, Marine Atmosphere & Coastal Ocean Research Network, UNICAL.

I had my professional training on Coastal Zone management at the International Centre for Marine Sciences and Technologies/CNR, Venice, Italy and Marine Pollution monitoring of trace organics and their impacts on sea and fisheries at the Institute for Marine Research, Bremerhaven, Germany. I also attended a Regional Training Course on Marine Nutrient Chemistry and Monitoring in Tunis, Tunisia sponsored by IAEA in 1993 well as a UK fellowship on Darwin Initiative on Biodiversity (Biotope Mapping) at the University of Ghana co-sponsored by the University at the New Castle-upon-Tyne. In 2017, I received professional training on the use of ocean gliders for the monitoring of essential ocean variables (EOVs) ocean contaminants. I have served as an Editor and reviewer to many academic journals including Tropical Journal of environmental Research, Journal of Oceanography and marine Sciences, Journal of Environmental Monitoring etc.

1981 – 1983	Lecturer , School of Arts and Science , Uyo, Nigeria.
1983 – 1986	Junior Research Fellow, Marine Chemistry Program, Physical Oceanography Department, University of Calabar, Nigeria.
1986 – 1989	Assistant Research Fellow Marine Chemistry Program, Physical Oceanography Department, University of Calabar, Nigeria.
1989 – 1992	Research Fellow 11, Marine Chemistry Program, Physical Oceanography Department, University of Calabar, Nigeria.
1992 – 1995	Research Fellow 1 (Chemistry), Physical Oceanography Department, University of Calabar, Nigeria.
1996	HOD/Senior Research Fellow, Physical Oceanography Department, University of Calabar, Nigeria.
1996	World Bank Postdoctoral Fellowship, University of Ghana, Legon, Ghana
1997	Chairman, Environmental Protection and Management Program of Commonwealth Association on the Education and Training of Adults (CAETA) in Nigeria.
1998 - 2000	Adjunct Lecturer – Physical and Chemical Oceanography, Michael Okpara University, Umudike, Nigeria.
2002	Associate Professor – Chemical Oceanography
2004	HOD, Physical Oceanography Department, University of Calabar, Nigeria.
2005	Sabbatical Professor, Cross River University of Technology, Calabar, Nigeria
2006	Professor of Chemical Oceanography, University of Calabar, Nigeria.
2007	Acting Director, Institute of Oceanography, University of Calabar, Nigeria
2009	Professor/ HOD, Physical Oceanography Department, University of Calabar, Nigeria.
2011 - 2012	Sabbatical Professor/HOD, Department of Marine Environmental Sciences, Akwa Ibom State University of Technology, Ikot Akpaden, Nigeria
2013 – 2015	Director/Professor, Institute of Oceanography, University of Calabar, Nigeria

2015 to 2017	Pioneer Dean/Professor, Faculty of Oceanography, University of Calabar, Nigeria.
2016 (October 2016)	Acting Vice Chancellor, University of Calabar, Calabar
2016 – 2017	Chairman, Committee of Deans, University of Calabar, Nigeria
2016 – 2018	Coordinator/ Desk Officer, U6 Consortium of African Universities UNICAL
2018 – 2020	Coordinator/ Desk Officer, U6 Consortium of African Universities UNICAL
2018 – date	Coordinator, Marine Atmosphere & Coastal Ocean Research Network (MACORN) UNICAL

UNIVERSITY TAUGHT COURSES

Oceanography Courses: Chemical and Physical Oceanography Courses

Other Courses: Aquatic Pollution, Bio-conservation/ Biodiversity, Coastal Zone management

UNDERGRADUATE SUPERVISIONS

Completed BSc Supervision - 150

POST GRADUATE SUPERVISIONS

PhD Supervisions - 6

MSc Supervisions - 22

PGD Supervisions - 50

EXTERNAL EXAMINER

I served as an external examiner to the following universities to examine undergraduate thesis/scripts, Masters and Doctoral thesis:

1. Federal University of Agriculture, Umudike, Nigeria – 1 PhD
2. Covenant University, Ota, Nigeria – 1 PhD
3. University of Ghana, Legon, Ghana – 10 MScs, 3 PhDs

RESEARCH FELLOWSHIPS & SCHOLARSHIPS

1. UNICAL Research/Study Fellowship to Kiel and Bremerhaven, West Germany, 1984/85.
2. UNICAL Study Fellowship to Bremerhaven, Germany, 1991
3. UNIDO Fellowship to Venice, Italy, 1993.
4. World Bank Postdoctoral Fellowship to University of Ghana, Legon, 1996.
5. IAEA Fellowship to Tunisia on Marine Nutrient Course , 2010

MEMBERSHIP OF PROFESSIONAL BODIES

- Commonwealth Association for the Education and Training of Adults (CAETA) –Member
- Nigeria Water and Sanitation Association (NIWASA) - Member
- Chemical Society of Nigeria (CSN)) - Member
- Nigerian Environmental Society (NES)) - Member
- African Monsoon Multidisciplinary Analyses (AMMA-Africa)- Member
- Society of Environmental Toxicology and Chemistry (SETAC) Europe/Africa – Member
- American Chemical Society (ACS) – Member
- AtlantOS Project working Group – Member

LEADERSHIP & MANAGERIAL SKILLS

S/N	Leadership Position	Period	Location	Specific Duties
1	HOD for 3 times (6 years)	1996 – 1998, 2004 – 2006, 2009 - 2011	University of Calabar, Nigeria	Coordination of research and teaching activities by academic staff and technologists and general administrative duties.
2	Director	2013 - 2015	University of Calabar, Nigeria	Coordination of Administrative and research activities of the Institute.
3	Dean	2015 - 2017	University of Calabar, Nigeria	Coordination of Administrative and research activities of the Faculty.
4	Ag. Vice Chancellor	October 2016	University of Calabar, Nigeria	General Administration and oversight functions of all faculties, Institutes and research centres, staff and students activities in the university.
5	Coordinator/ Desk Officer U6 Consortium of African Universities	2016 - date	University of Calabar, Nigeria	Establishing of linkages with national and international universities, sourcing for external collaborators, fellowships and funding supports for graduate students
6	Coordinator, Marine Atmosphere and Coastal Ocean Research Network (MACORN)	2017 - date	University of Calabar, Nigeria	Coordination of research efforts and activities on fisheries, biogeochemical processes and quantifiable and reliable marine atmospheric/ ocean data along the South Atlantic coastline of West Africa

EXTERNAL LINKAGES AND INTERNATIONAL COLLABORATIONS

Based on my track record of success in developing extensive international networks, I have been appointed by the Vice Chancellor as the Coordinator, U6 Consortium of African Universities comprising of University of Calabar, Nigeria; University of the Gambia, Gambia; University of Cape Coast, Ghana; University of Ilorin, Nigeria; Kwara State University, Malete, Nigeria and the University of Eldoret, Kenya. I am also the Chairman, External Linkages, Research and International Collaborations for our Graduate School. I also maintained a cordial and robust relationship between the University of Calabar with the following local and international organizations:

- Nigerian Institute for Oceanography and Marine Research (NIOMR, Lagos), Nigeria.
- ECOWAS Coastal & Marine Resources Management Center, University of Ghana, Ghana;
- Institute of Agricultural Research for Development (IRAD), Station for Fishery and Oceanography (SRHOL/IRAD), Limbe, Cameroon.
- AtlantOS Project Coordination Unit, GEOMAR Helmholtz Centre for Ocean Research, Düsternbrooker Weg 20, D-24105 Kiel, Germany
- Centre for Marine Tropical Ecology (ZMT), University Bremen, Germany.
- Leibnitz Institute for Water Ecology and Inland Fishery (IGB), Berlin, Germany.
- Department of Plant Biology and Pathology, Cook College, Rutgers, The State University of New Jersey, USA.
- Federal Institute for Fishery, Institute for Baltic Fishery, Rostock, Germany
- United Nations Organization for Industrial Development (UNIDO), Vienna,
- Food and Agriculture Organization (FAO), Fisheries Department, Rome, Italy,
- Technical Centre for Agriculture and Rural Cooperation (CTA), Wageningen, Netherland etc.

LIST OF SCIENTIFIC CONFERENCES/WORKSHOPS ATTENDED :

1. International Workshop on Marine & Atmospheric Sciences in West Africa 12 – 17 November 2017 , at the OSCM and the INDP in Mindelo , Cape Verde.
Paper Presented: The influence and fluctuating trends of ocean variables in surface mixed layer of the south Atlantic Ocean, Nigeria.

2. Building an Atlantic Community: Project and Ideas Meeting Place - 12 July 2017 and a New Era of Blue Enlightenment, Portugal July 13-14, 2017.
Paper Presented: AtlantOS Project In Nigeria: Developing a workable Plan for Atlantic Ocean Monitoring and Coastal Areas Sustainability in Nigeria, West Africa.
3. 7th EGO conference on autonomous ocean gliders and their applications Monday 26th September – Thursday 29th September 2016 at National Oceanography Centre, Southampton, UK.
Paper Presented: Ocean gliders Applications as an alternative technology to conventional (analytical) techniques in the Bight of Bonny, Nigeria.
4. 2nd AtlantOS Essential Ocean Variables Workshop and Influence on Marine Fisheries from 30 June to 1 July 2016 at Steigenberger Conti Hansa, Kiel, Germany.
5. 2nd Regional Steering/ Technical Committee Meeting: Monitoring for Environment and Security in Africa (MESA) Programme. Theme: Enhancing the use of Earth Observation Information to support Fisheries management and Safety at Sea in West Africa at Kapital Klub, Abuja, Nigeria 20 – 24th July 2015.
6. Asuquo, Francis E. (2015). Report on the status of the Centre of Excellence (CoEX) for Fisheries and Aquaculture, University of Calabar, Nigeria, Paper presented to TETFund on the Verification Visit to the Institute of Oceanography, University of Calabar, Calabar, Nigeria on 7th May, 2015.10pp.
7. Asuquo, Francis Emile (2015). Public Lecture on “From the Gray to the blue waters: The emerging scenario”. Presented at the Faculty of Applied Sciences Seminar, Applied Sciences Block, Cape Peninsula University of Technology, Cape Town South Africa on 29th April 2015.
8. Public Lecture on Application of Satellite remote sensing in data acquisition and management of the coastal zone by Odum, Princewill O. First Faculty of Marine Sciences Seminar, Faculty of Marine Sciences, University of Calabar, Calabar, Nigeria on 24th April, 2015.
9. Conference on Sensitization on the Implementation of the Nigerian maritime Administration & Safety Agency’s mandate on the coastal and inland (cabotage) Act 2003 in Nigeria with special reference to marine fisheries resources, 20th March 2015 at Transcorp Hotel, Calabar, Nigeria.
10. Conference on 2iE’s Science Week, 10 -14th April 2013, Ouagadougou 01 - Burkina Faso: Asuquo, Francis Emile and Ita, Richard Eyo (2013). Assessment of flood-ebb tidal dynamics on heavy metal distribution in the nearshore waters of the Gulf of Guinea, Nigeria.
11. Workshop on the Review and Setting of Standards for the Establishment of the Faculty of Oceanography and Naval Architecture in Akwa Ibom State University held in Senate Chambers, Akwa Ibom State University, Ikot Akpaden, Mkpato Enin LGA, Akwa Ibom State, June 19, 2011.

12. National stakeholders workshop on Guinea Current Large Marine Ecosystem (GCLME) , Integrated Coastal Area Management (ICAM) and Mangroves Restoration Project, Eket, Nigeria, 20 – 22 December, 2006.
13. Regional training workshop on Integrated Coastal Area Management (ICAM), Calabar, Nigeria, Dec. 12 – 16, 2005.
14. Tropical Environment Forum/Conference 1999. Papers presented; Bassey, E. S. and Asuquo, F. E. (1999). Seasonal changes in the water quality of Ibeno coast line, S. E. Nigeria.
-Asuquo, F. E.; Oгри, O. R. and Bassey, E. S. (1999). Distribution of heavy metals and total hydrocarbon in coastal waters and sediments of Cross River, S. E. Nigeria.
15. Fisheries Society of Nigeria conference, Ibadan (1998).
Papers presented: Asuquo F. E. (1998). Cr, Zn, Pb, Cu and Mn in fish samples from coastal beach market of South Eastern Nigeria.
16. Nigeria Society for Biological Conservation (NSBC), 1997
Papers presented: Asuquo F. E. Heavy metals contamination of fish and molluscs from Cross River flood plain, Nigeria.
17. UNDP Environmental Management Training Workshop, Uyo, Akwa Ibom State, June 1995.
Resource Person.
18. National workshop on the Pollution load of the Cross River Basin, Sponsored by IOC and FAO, at the University of Calabar, 1993.
19. NIWASA Conference, October 1989, Port Harcourt, Nigeria.
Paper presented; (i) Water Pollution monitoring of the Great Kwa River, Calabar, Nigeria: A case study. June 1989.

LIST OF SCIENTIFIC PUBLICATIONS:

1. Asuquo, F. E. (1989a). Water Quality of Calabar river, Nigeria. *Tropical Ecology* 30, 31 – 49.
2. Asuquo, F. E. (1989b). Water pollution monitoring of the Great Kwa river, Calabar 1: A case study. *Proceedings on water pollution and control in Nigeria. Nigeria Water and Sanitation Association (NIWASA) 3*, 12.1 – 12.16
3. Asuquo, F. E. (1989c). Protecting Nigerians' fresh water environment against pollution by nutrients. *Proceedings on water pollution and control in Nigeria. Nigeria Water and Sanitation Association (NIWASA) 3*, 18.1 – 18.7
4. Asuquo, F.E. (1991). Tar balls on Ibeno- Okposo beach of South-eastern Nigeria. *Marine Pollution Bulletin* 22, 150 – 151.
5. Enyenihi, U.K., Asuquo, F.E. and Antia, E.E. (1992). The levels of stranded pelagic tar residues on Ibeno Beach, Nigeria. *Tropical Journal of Applied Sciences* 2, 52 – 55.
6. Asuquo, F.E., Morah, F.N.I., Nya, A.E. and Ehrhardt, M. E. (1995). Trace metals in crude oils and tar balls from the Nigerian coastline. *Indian Journal of Marine Sciences* 40, 16 – 18.
7. Asuquo, F.E., Ukpabio, E. J. and Ehrhardt, M. (1996). Composition and sources of Nigerian Beach tars . *Global J. Pure and Applied Sciences* 2, 171 – 182.
8. Asuquo, F.E. (1997a). The levels of trace metals in pelagic tars from Ibeno beach, Nigeria. *Global J. Pure and Applied Sciences* 2, 77 – 84.
9. Asuquo, F. E. (1997b). Tar balls monitoring – A classical tool for the

- assessment and evaluation of marine pollution by petroleum. Commonwealth Proceedings on Environment 1, 20 – 25.
10. Asuquo, F. E . (1997c). Biochemophysical alterations of petroleum in water. Commonwealth Proceedings on Environment 1, 39 – 39.
 11. Akpabli, C.K., Drah, G.K. and Asuquo, F.E. (1998a). Heavy metal pollution in the interstitial sediments of Accra-Tema beaches. Chemistry and Industry 1 (9), 207 – 230.
 12. Asuquo, F.E. (1998b). pH, Alkalinity, Hardness and Conductivity relationships in the fish ponds of the University of Calabar, Nigeria. African J. Fisheries and Aquaculture 1, 49 – 55.
 13. Asuquo, F.E., Ntekim, E.E.U., Bassey, E.S. and Nya, A.E. (1998). Physico-chemical and pollution status of the Cross river system, Nigeria. Annual review and Planning of Fisheries research on Nationally Coordinated Agricultural Research Program (NARP) 2, 18 – 19.
 14. Asuquo, F.E. (1999a). Physicochemical characteristics and anthropogenic pollution of the surface waters of Calabar river, Nigeria. Global J. Pure and Applied Sciences 5, 595 – 600.
 15. Bassey, E.S. and Asuquo, F.E. (1999b). Seasonal changes in the water Quality of Ibeno coastline, Nigeria. Intern. J. Trop. Environment 2, 138 – 150.
 16. Asuquo, F.E., Ogri, O.R. and Bassey, E.S. (1999c). Distribution of heavy metals and total hydrocarbons in coastal waters and sediments of Cross river state, South Eastern Nigeria. Intern. J. Trop. Environment 2, 229 – 242.
 17. Asuquo, F. E. and Asuquo E. F. (1999d). Quality of drinking water sources and Associated health problems in Calabar, Nigeria. Journal Appl. Science and Environmental Magt, 3, 29-34.
 18. Asuquo, F.E. (2000a). Temporal variations in beach tar concentration along Ibeno coastline, Nigeria. Global J. Pure and Applied Sciences 6, 131 – 136.
 19. Asuquo, F. E. (2000b). Domestic waste composition and pollution status of Calabar city, Nigeria. Journal Appl. Science and Environmental Magt. 2, 21 – 25.
 20. Asuquo, F. E. (2000c). Characteristics of rubber effluents and its impact on the water quality of upper Calabar River, Nigeria. Trop. Environ. Res. 2, 159 – 167.
 21. Asuquo, F. E. (2002a) Marine Garbage composition and dynamics : A Case study of Ibeno Beach, Nigeria. Afr. J. Environ. Pollut. Health 2:35-45.
 22. Asuquo, F. E., Ibanga, I.J. and Idungafa, N. (2002b) Effects of Qua Iboe (Nigerian) Crude Oil on the Germination and Growth of Okra (*Abelmoschus esculentus*, L) and Fluted Pumpkin (*Telferia occidentalis*, L) in the Tropics. Afr. J. Environ. Pollut. Health 2:46-57.
 23. Asuquo, F. E. and Udoh J. P. (2002c). Patterns of total hydrocarbon, Cu and Fe in some fish from the Cross river estuary, Nigeria. West African J. Appl. Ecology 3, 91-97.
 24. Asuquo, F.E. and Akpabli, C.K. (2002d). Water Quality characteristics of Accra-Tema coastline. Trop. Environ. Res. 4, 296 – 306.
 25. Asuquo, F.E; Ewa-Oboho, Ita; Asuquo, Ekaete F. and Udo, Paul J. (2004). Fish Species Used As Biomarker For Heavy Metal and Hydrocarbon Contamination For Cross River, Nigeria, The Environmentalist, 24 : 29 - 37
 26. Unyimadu, J. Paul and Asuquo, F.E (2004). Organochlorines levels in Liver of wild grass Cutter (*Thyromys swinderians*) using Gas Chromatography. Trop. Environ. Res. 5 (1&2), 329-337
 27. Unyimadu, J. Paul ; Asuquo, F.E and Udoghu, U. (2004). Trace metal pollution studies in fin fish and sediment from Lagos lagoon. Trop. Environ. Res. 5 (1&2), 338-345.
 28. Asuquo, F.E., Ekaluo, U.B. and Asuquo, E.F. (2005). Assessment of heavy metals and total dissolved petroleum hydrocarbons in edible *Mactra nitida* from the Nigerian coastline. Trop. Environ. Res. Vol. 6 (1), 432 – 439.
 29. Ogri, O.R., Asuquo, F.E. and Ibok, U.J. (2006). Distribution and sources

- of polyaromatic hydrocarbons in mangrove sediments of Great Kwa river, South_east, Nigeria . Bull. Environ. Contam. and Toxicol. 77, 866 - 873.
30. Asuquo, F.E..and Ogri, O.R.,(2006). Abundance and potential impacts of polyaromatic hydrocarbons (PAHs) on the mangrove sediments of Great Kwa river estuary, South–east Nigeria, Global J. Environmental Sciences 5 (2), 83 – 87.
 31. Ewa-Oboho, Ita; Asuquo, F.Emile and Oladimeji, O.(2006). Effects of petroleum hydrocarbon pollution on phytoplankton primary production and community respiration in the inner shelf off the Gulf of Guinea, S.E. Nigeria. Trop. Environ. Res. 7 (1), 442 – 449.
 32. Ewa-Oboho, Ita and Asuquo, F.E. (2006). Assessment of environmental impacts after Exxon-Mobil oil spill on the continental waters of the Gulf of Guinea, Nigeria. Global Journ. Environmental Sciences 5 (2), 105 – 112.
 33. Ewa-Oboho, Ita; Oladimeji, Segun; Asuquo, F.Emile and Oboho, Eme I. (2006).Dynamics of littoral biota of Nigeria after the Exxon mobil-Idoho January 1998 offshore oil spill: long-term (1998-2001) monitoring. Trop. Environ. Res. 7 (3), 601 – 610.
 34. Ewa-Oboho, Ita; Asuquo, F.Emile and Antai, E.E.(2006).Dynamics of microbenthic organisms after a simulated crude oil spill in a tropical estuary off the Gulf of Guinea. Trop. Environ. Res. 7 (3), 616 – 625.
 35. Ewa-Oboho, Ita; Asuquo, F. Emile ;Edet, P; Emeh, E. J. and Oladimeji, S. (2006). Mangrove ecosystem of the Niger delta: Distribution and dynamics. Journal of Environmental Systems 32: 145 – 173.
 36. Asuquo, F. Emile and Ewa-Oboho, Ita (2006). Chemical Components and Nutrients in Mangal Sediments of Cross and Qua Iboe Rivers, South-East Nigeria. Journal of Environmental Systems 32: 37 – 54.
 37. Ewa-Oboho, Ita; Oladimeji, O. and Asuquo, F.E. (2008). Effect of dredging on benthic-pelagic production in the mouth of Cross river estuary (off the Gulf of Guinea), S.E. Nigeria . Indian J. Marine Sciences 37(3), 291-297.
 38. Asuquo, F.E. (2009). Climate change: Effects on the oceans. Engendering a new earth consciousness. Green Impact Quarterly. Point Blank Inc.,Abuja, 26p.
 39. Ekanem, A.P., Asuquo, F. E. and Ndik, E.J. (2011). Toxicity of Crude oil to freshwater shrimps, *Macrobrachium macrobrachion* and *Macrobrachium vollenhovenii* from Nigerian coastal waters. Bull. Environ. Contam. Toxicol. 86: 394 – 397.
 40. Okon, L.E and Asuquo, F. Emile (2012). The impact of flow regime on the sedimentation pattern of Calabar River, South-East Nigeria. Journal of Oceanography and Marine Science 3(2), pp. 19-31.
 41. Asuquo, F.E. and Okon, L. E. (2012). Climate change, inter-annual and inter-Seasonal Variations of temperature, humidity and rainfall dynamics in Southeast Nigeria. Monsoon Systems: Climate.In Proceedings of 4th AMMA International Conference on Climate Change, Toulouse, France, 2-6 July, 2012, pp. 1-18.
 42. Asuquo, F.E. and Ita, R. E. (2013). Assessment of flood-ebb tidal dynamics on heavy metal distribution in the near-shore waters of the Gulf of Guinea, Nigeria. Proceedings of 7th Edition of 2iE's Science Week conference, JS 2013 at Ouagadougou, Burkina Faso, April 1-5, 2013.
 43. George, U.U, Asuquo, F.E, Idung, J.U. and Andem, A.B (2013). Bioaccumulation of heavy metals in three fresh water fishes caught from Cross River System. *European Journal of Experimental Biology* 3 (3): 576 – 582.
 44. George, UU, Asuquo, FE, Idung, J. U. and Andem, A.B. (2013). Effects of

Lethal concentration of rubber extract (*Hevea brasiliensis*) on the survival of fingerlings of *Clarias gariepinus* under laboratory conditions. *Journal of Natural Sciences Research* 3(9): 56 – 60.

45. George, UU, Asuquo, FE, Idung, J. U. and Andem, A.B. (2013). A laboratory bioassay of the potential effects of rubber extract (*Hevea brasiliensis*) on the survival of the fingerlings of *Oreochromis niloticus* . *Journal of Biology, Agriculture and Health care* 3(11): 70 – 74.
46. Asuquo, Francis E., Asuquo, Philomena E., Essienmoh, Emem E. and Okon, Lynda E. (2013). Hydrocarbon levels in the organs of fish and shellfish off the southeastern Atlantic coastline of Nigeria. Proceedings of the International Conference on Oceanography, Institute of Oceanography, University of Calabar, 2013, pp.213 – 220.
47. Benson, Nsikak U., Essien, Joseph P. , Asuquo, Francis E. and Eritobor, Adeola L. (2014). Occurrence and distribution of polycyclic aromatic hydrocarbons in surface micro layer and subsurface seawater of Lagos Lagoon, Nigeria. *Environ. Monitoring Assess.* 186(9):5519-29.
48. Benson, Nsikak U., Osibanjo, Oladele O., Asuquo, Francis E., and Anake, Winifred U. (2014). Observed trends of $p\text{CO}_2$ and air-sea CO_2 fluxes in the North Atlantic Ocean. *International Journal of Marine Science*, Vol. 4, No. 72, 1-7.
49. Benson, Nsikak U., Osibanjo, Oladele O., Asuquo, Francis E., and Anake, Winifred U. (2014). On the influence of interseasonal sea surface temperature on surface water $p\text{CO}_2$ at 49.0°N/16.5°W and 56.5°N/52.6°W in the North Atlantic Ocean. *Journal of Oceanography and Marine Science.* 5(7), 55 – 63.
50. Benson, Nsikak U., Asuquo, Francis E., Osibanjo, Oladele O., Etesin, Usoro, M ., Adedapo, Adebayo E. (2015). Surface Mixed Layer Profile of Physical and Biogeochemical Variables in the Subpolar North-West and -East Atlantic Ocean: A Data-Model Comparison Study. *Open Journal of Marine Science*, 5, 33-44.
51. Benson, Nsikak U., and Asuquo, Francis E., (2016). Modeling Spatial and Temporal $p\text{CO}_2$ Variability at 49°N/16.5°W and 56.5°N/52.6°W in the North Atlantic Ocean. *Journal of Earth Science and Climate Change* 2016, 7:1 <http://dx.doi.org/10.4172/2157-7617.1000330>
52. Benson NU, Asuquo FE, Williams AB, Essien JP, Ekong CI, Akpabio O, et al. (2016). Source Evaluation and Trace Metal Contamination in Benthic Sediments from Equatorial Ecosystems Using Multivariate Statistical Techniques. *PLoS ONE* 11(6): e0156485. <https://doi.org/10.1371/journal.pone.0156485>.
53. Schmidt, J., Asuquo, F. *et al* (2018). Ecosystems, fisheries, blue carbon, pollution and coastal impacts in Impacts of tropical Atlantic variability and climate change on fisheries and ecosystems. *AtlantOS* (in progress).
54. Benson, N. U. and Asuquo, F.E. (2018). Observing Capacities and Requirements in the Southern Atlantic Region: Perspective from Nigeria. In: Strengthening pan-Atlantic Cooperation for Ocean Observing. *AtlantOS Special News Letter* Vol.1. No.3, 14pp.

55. Asuquo, Francis Emile (2018). The 3Bs of Life: The black, brackish and the blue waters. An Ecological scenario misunderstood. 78th Inaugural Lecture Book Series, University of Calabar, Nigeria, pp.111.

Computer Knowlegde: Very proficient in the use of computer and computer softwares including MS word, Excel graphics, Power Point, Spread Sheets, etc. I am very proficient in ICT.

REFEREES:

1. Prof. Elvis K. Nyarko, Vice Chancellor, Regional Maritime University, Accra, Ghana
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3. Mika Odido, IOC Coordinator in Africa, IOC UNESCO Regional Office for Eastern Africa Nairobi, Kenya; Tel: +254 20 7621244; Email: m.odido@unesco.org