ADUABOBO, IBITORU HART

E-MAIL - ibitoruh@gmail.com, Phone number - 08033129803



BIO DATE:

11th OCTOBER, 1955 **DATE OF BIRTH:**

HOME TOWN: BONNY

LOCAL GOVT AREA: BONNY L.G.A

STATE OF ORIGIN: RIVERS STATE

MARRIED MARITAL STATUS:

INSTITUTIONS ATTENDED WITH DATES

1. St.Cyprian's School, Port Harcourt January 1962- March 1965 2. St. Paul's School, Nsuka April 1966- December 1966 3. Queens School Enugu January 1987- May 1967

4. Archdeacon Crowther Memorial Girls'

School, Elelenwo

5. Federal Government College, Port Harcourt

6. University of Ibadan, Ibadan

7. University of Port Harcourt, Port Harcourt

8. University of Port Harcourt, Port Harcourt

January 1970- December, 1973

September 1974- June, 1976

October 1976 - July 1979

October 1981 - July 1983

October 1987 - December 1994

QUALIFICATIONS

West African School Certificate December 1973
 (Division One, Aggregate)

2. Higher School Certificate (2 Papers) June 1976

3. Bachelor of Science

(Second Class Honours Upper Division) July 1979

4. Master of Science

(Hydrobiology and Fisheries Biology) July 1983

Title of M.Sc Thesis: A key to stage 1 larvae of the common shrimps of the Niger Delta- Successfully defended.

5. Doctor of Philosophy

(Hydrobiology and Fisheries Biology) December 15th 1994.

Title of Thesis: The Ecology of the Communities of Benthic Macrofauna in the Mangrove Swamp of the Port Harcourt Area of the Niger Delta.

POSITIONS HELD

1.	Research Assistant, Jos Zoological Gardens, Jos	1979-1980		
2.	Graduate Assistant, University of Port Harcourt	1980-1982		
3.	Assistant Lecturer, University of Port Harcourt	1983-1987		
4.	Lecturer II, University of Port Harcourt	1987-1995		
5.	Lecturer I, University of Port Harcourt	1995-1998		
6.	Senior Lecturer, University of Port Harcourt	1998-2009		
7.	Coordinator Hydrobiology/Fisheries Unit	2006 till date		
8.	Professor	2009 till date		
9.	Permanent member of Senate	2009 till date		
10. Assistant Director General Studies Unit (GES 104) 2009 - 2013				
11.Head of Department (HOD, AEB)		2010 – 2012		
12. Chair occupant Bruce Powell Chair of Hydrobiology/ 2013 till date				
	Fisheries			
13	Associate Dean Faculty of Biological Science	2013 till date		
14. Director, Institute of Natural Resource Environment,				
	and Sustainable Development (INRES)	2020 till date		

ACTIVITIES IN THE UNIVERSITY OUTSIDE TEACHING AND RESEARCH

1. Member, Department of Zoology Appointment and Promotion Committee

(For Junior Staff) 1989		
2. Zoological Museum Co-ordinator 1986		
3. Seminar Co-ordinator 1989,1	990	
4. Examination Officer 1994		
5. Student Industrial Work Scheme(S.I.W.E.S)Co-ordinator 1995/9	96;	
2004 -	2010	
6. Member, Interdisciplinary Research in the Niger Delta Committee		
7. Member, Faculty Committee to investigate examination malpractice		
8. Timetable Officer 1999-2	001	
9. Member, Faculty of Science Committee on Biotechnology		
Curriculum Development 2003		
10. Member, Faculty of Science Welfare Committee 2004 to	date	
11. Member, Faculty of Science Project Implementation Committee	2004	
12. Member, Faculty of Science Postgraduate Committee	2005	
13. Departmental Welfare Officer 2004 to	o present	
14. Member, Faculty of Science 25th Anniversary Planning Committee 2008	8	
15. Patron Bonny Student Association (University of Port Harcourt)		
16.Patron Eco Club (University of Port Harcourt)		
17.Patron AEBSA (University of Port Harcourt)		
18. External Examiner undergraduate, M. Sc and PhD students, Rivers Sta	te University	
2007 till date		
19.External Examiner M. Sc students, Michael Okpara University of	Agriculture	
Umuahia 2014		
20. Assessment of papers for professorial appointment University of Uyo	2012	
21. Assessment of papers for professorial appointment Niger Delta University	ersity 2014 -	
2021		
22. Assessment of papers for professorial appointment Rivers State Univer	rsity 2021	
23. Mentor for African Women in Agricultural Research and Development	(AWARD).	
24. Editor Scientia Africana. 201	LO to present	
25. Editor Journal of Aquatic Sciences 20	13-Present	
26. Vice Chairman to Bonny Environmental Consultative Committee.		
27. Patron Niger Delta Students Union Government Rivers State branch		
University of Port Harcourt chapter.		
28. Senate Representative on Honorary degree awards committee	2010-2012	
29. Senate representative on staff housing loan scheme	2013 till date	

TEACHING EXPERIENCE

Between 2000 and 2014

1 Rasic Riology Basic Students

	basic biology, basic stadelits	
2.	Organisms and their Environment	First year and Post ACE,ISLT &

Sandwich

3. Higher Invertebrates (Involves extensive field work)

Second year

4. Ichthylogy Third year5. Hydrobiology Third Year6. Animal Behaviour Third year

7. Evolution and Zoogeography Third year

8. Aqua Culture Fourth year9. Fisheries Biology Fourth year

10.Applied Animal Ecology Fourth year

11. Estuarine Ecology Post Graduate

12. Community Service Co-ordinator Second year
13. Student Adviser Second year

14. Aquaculture Post Graduate; Fourth year

14. Aquaculture Post Graduate; Fourth year 15. General Biology First year

16. Climatology and biogeography
Third year
17. Fish Biology and Natural History
Third year
18. Oceanography
Third year

19. Fish Diseases and Parasite Third year

20. Management of coastal ecosystem

And mariculture Fourth year
21.Ornamental Fisheries and Aquarium Design Fourth year
22.Fish processing, preservation and marketing Fourth year

23.Biodiversity, Forest and Wildlife Management fourth year

24. Protochordates and Chordate Year one Medical Sciences; Year

Three AEB and BCH

26. Teaching of PGD, MSc and PhD courses

SUPERVISION OF STUDENTS SEMINARS/PROJECTS

I have supervised over sixty students between 2000- 2014 for undergraduate Projects. Over fifty for Seminars and about Two Hundred for Industrial Work Attachment.

M.Sc Students (2000-2014) Twenty-five Students

Ph.D (2000-2014) Ten Students

PROFESSIONAL ASSOCIATIONS

- 1. Member Fisheries Society of Nigeria..
- 2. Member Science Association of Nigeria.
- 3. Member Association for Aquatic Sciences of Nigeria.
- 4. Member Pan African Fish and Fisheries Association.
- 5. Member World Aquaculture Society.
- 6. Member United States Aquaculture Society.
- 7. Member Asian Pacific Chapter of the World Aquaculture Society.

WORKSHOP AND SEMINARS AND CONFERENCES ATTENDED

Science association of Nigeria	21 st - 26 th July, 1985	
Fisheries Society of Nigeria	- 29 th November, 1985	
UNESCO MAB-5 Nigeria Wetlands and Workshop	1985	
Nigeria Society for Biological Conservation	26 th – 29 th May, 1991	
Fisheries Society of Nigeria Conference	1998	
NCRP National Workshop (Freshwater Fisheries)	1987	
(Freshwater Fisheries)	1998	
Fisheries Society of Nigeria	January 1998	
Advanced Aquaculture Management Course	December 1996	
Science association of Nigeria	25 th -29 th November, 2001	
Environmental Sensitivity Index (ESI) Mapping		
Process Workshop	August 2002	

Impact Assessment Training-Practitioner Course July, 2002

Fisheries Society of Nigeria Conference November, 2006
Fisheries Society of Nigeria Conference November, 2010
Fisheries Society of Nigeria Conference November, 2012

Award Mentoring Orientation Workshop Nairobi Kenya October 24th -28th (2011)

Award Regional Mentoring Meeting Ibadan Nigeria May 6th-8th (2012)

Award Women's Leadership and Management Course, Mombasa Kenya August 19th -25th

(2012)

Pan African Fish and Fisheries Association Diversity Management and Livelihoods

Bujumbura Burundi September 2013

World Aquaculture Conference Adelaide Australia June 2014

ACADEMIC PUBLICATIONS

CONFERENCE PROCEEDINGS

- JONATHAN, G.E., POWELL, C.B. AND HART. A.I. 1985. Identification of West African Estuarine Shrimp and crab larvae pp197-206 in E. Ita (ed). Proceedings of the 4th Annual Conference of the Fisheries Society of Nigeria, PH. 26th – 29th November, 1985. Fisheries Society of Nigeria, Lagos.
- POWELL,C.B, HART, A.I, and DEEKAE, S.A. 1985. Market Survey of the periwinkle Tympanotonus fuscatus in Rivers State: prices, trade routes and exploration levels. Proceedings of the 4th Annual Conference of the Fisheries Society of Nigeria. 26-29 November, 1985.
- WOKOMA, I.A., and HART A.I. 2001. Seasonal variation in the physico-chemical parameters of water samples and distribution of <u>Uca tangeri</u> in the lower Bonny Estuary. Proceeding of Science Association of Nigeria held in Lagos 25- 29th November, 2001.
- 4. OLADOSU, O.O., OLADOSU, G.A., and HART A.I. 2011. Effects of some ecological factors of the tropical flood plain on the breeding and conservation of *Gymnarchus niloticus*. Proceedings of the Annual Conference of the Fisheries Society of Nigeria 2011.

- 5. OLADOSU, O.O., OLADOSU, G.A., and HART A.I. 2011. Incidence of parasitic infestation on the skin and gills of *Clarias gariepinus* (Burchell) rared under different culture systems. Proceedings of the Annual Conference of the Fisheries Society of Nigeria 2011.
- 6. HART A.I. AND JAMABO N. 2014 Aquaculture Value Chain: Prospects and Challenges in Nigeria. Proceedings of World Aquaculture Conference Adelaide Australia 7th 12th June 2014.
- 7. HART A.I., ABOWEI J.F.N., ANSA E.J. AND NWEKE D. 2013. Effect of Handling Stress on Whole Blood Glucose levels on Farmed Fish 'Tilapia' (*Orechromis niloticus*) and Catfish(*Heterobranchus bidorsalis*). Proceedings of the Fifth International Conference of the Pan African Fish and Fisheries Association held in Bujumbura Burundi 16-20 September 2013.
- 8. OKOGBUE B.C., HART A.I., and ANSA E.J. 2014. Integrated Nutrient Management in environmental remediation activities: The *Macrobrachium* toxicity case study. A research paper presented as the second Niger Delta Environment and Sustainable Development Conference held in University of Port Harcourt, Port Harcourt Rivers State Nigeria

JOURNAL ARTICLES

- 1. CHINDAH, A.C., HART, A.I., BRAIDE, S. A and AMADI, A. 1993. The Epibenthic Algal Community of the Bonny Estuary, Niger Delta, Nigeria. *Acta Hydrobiol* 35(4): 307-320.
- 2. HART, A. I. and HART, S.A. 1998. Aspects of the Food and Feeding Biology of *Mugil cephalus* (Linnaeus, 1758) (Perciformes: Mugilidae) in Bonny Estuary, Niger Delta *Nigeria*. *Afr. J. Appl. Zool. 1: 39-54*
- 3. HART, A.I. and CHINDAH, A.C. 1998. Preliminary Study on the Benthic macrofauna associated with different microhabitats in mangrove forest of the Bonny Estuary, Niger Delta Nigeria. *Acta Hydrobiol*, 40, 1:9-15.

- 4. SIKOKI, F.D., HART, A.I. and ABOWEI, J. F. 1998. Gill-Net Selectivity and Fish Abundance in the Lower Nun River Nigeria. J. *Appl.*, *Sci. Envir. Mgt* 1(1): 13-19
- 5. CHINDAH, A. C., HART, A. I. and ATUZIE, B. 1999. A Preliminary investigation on the effects of municipal waste discharge on the macrofauna associated with macrophytes in a small fresh water stream in Nigeria. *Afr. J Appl. Zool. 2:* 29-33
- 6. HART, A. l. and CHINDAH, C. 1999. Size Distribution of the Sesarmid Crab *Sesarma huzardi* Desmarest 1825 and the gastropod *Melampus liberianus* in a mangrove Swamp of the Bonny Estuary, Nigeria Delta, Nigeria. *Afr. J. Appl. Zool. 2:* 49-55.
- 7. CHINDAH A.C. and HART, A.I. 2000. Occurrence and distribution of epifauna and infauna community in shallow mangrove wetland in the tropical West African region. *Afri. J. Envtal Studies 1* (1+2): 76-83.
- 8. CHINDAH A.C., HART A.I and UZOMA, A.1999. Periphyton associated with submerged macrophyte. *Crinium natans* in the upper reaches of The New Calabar River, Niger Delta. *J. Agric. Biotech Environ1(2)* 37-46.
- 9. HART A. I., ANSA, E. J and SEKIBO, 1. 2003. Sex ratio, sexual dimorphism and fecundity in pond reared Nigerian prawn *Macrobrachium felicinum* (Holthius 1949). *Zoologist 2(1)*: 56-61
- 10. EZEKIEL E. N., ABOWEI J.F.N and HART A. I. 2002. The fish assemblage of the local fish ponds in the flood plains of Odhiowku-Ekpeye, Niger Delta. *International Journal of Science And Technology I (1)*: 54-59.
- 11. ZABBEY. N. and HART A.I. 2005. Physico-chemical parameters of

- Woji Creek Niger Delta. *Global Journal of Pure and Applied Sciences* 12:1-5.
- 12. HART, A.I and ZABBEY .N. 2005. Physico-chemistry and benthic fauna of Woji creek in lower Niger Delta, Nigeria, *Environment and Ecology 23 (2)*: 361-368.
- 13. ALLISON, M.E., SIKOKI, F.D. HART, A.I., ABOWEI, J.F.N., and ANSA, E. J. 2007. Distribution and Abundance of *Parailia pellucida* (Boulenger, 1901) (Schilbeidae) in the fresh water reaches of the Lower Nun River, Niger Delta, Nigeria. *International Journal of Tropical Agriculture and Food Systems I (1)*: 30-36.
- 14. HART, A.I., ULONNAM, C.P., and ZABBEY, N. 2007. Toxicity and histopathological effects of Oil-based drilling mud on edible swimming crab (*callinectes amnicola*). *Journal of Animal Production Research Advances 3 (1)*: 64-68.
- 15. HART, A. I. and ABOWEI, J.F.N. 2007. A study of the length-weight relationship, condition factor and age of ten fish species from the lower Nun River, Niger Delta. *African Journal of Applied Zoology and Environmental Biology* 9: 13-19.
- 16. ABOWEI, J.F.N. and HART, A.I. 2007. Size Composition, age, growth, mortality and exploitation rate of *Chrysichthys nigrodigitatus* from Nun R iver, Niger Delta, Nigeria. *African Journal of Applied Zoology and Environmental Biology* 9: 44-50.
- 17. AGI, P. I. and HART, A. I. Habitats of *Bulinus globosus* (Morelet) in relation to Schistosome transmission in Odual Communities in The Niger Delta, Nigeria. *Environment and Ecology 25 (2)*: 423-427.
- 18. HART, A.L., AMAH, E. and ZABBEY, N. 2007. Biocoenosis of planktonic flora in a 36 years old crude oil polluted freshwater pond

- in the lower Niger Delta, Nigeria. African Journal of Applied Zoology and Environmental Biology 9:63-69.
- 19. ALLISON, M.E., SIKOKI, F.D., HART, A.I. and ANSA, E.J. 2007. Some aspects of physic-chemical characteristics of the freshwater reaches of the lower Nun River, Niger Delta, Nigeria. *African Journal of Applied Zoology and Environmental Biology* 9:51-58.
- 20. ABOWEI, J.F.N., SIKOKI, F.D., HART, A.I. and ALLISON, M.E. 2007. Catch composition and seasonality of fin-fish in the fresh water reaches of the lower Nun River, Niger Delta. *Aquafield 3*:8-21.
- 21. HART, A.I., ABOWEI, J.F.N. and IROEGBU, H.C. 2007. Survival responses of *Oreochromis niloticus* (Linnaeus 1758) fingerlings exposed to various concentrations of Perfkthion. *Animal Production Research Advances* 3(4):319-327.
- 22. ABOWEI, J.F.N., TAWARI, C.C., HART, A.I. and GARRICKS, D.U. 2008. Phytoplankton and physico-chemical characteristics in the lower Sombreiro River, Niger Delta, Nigeria. *African Journal of Applied Zoology and Environmental Biology* 10:11-19.
- 23. HART, A.I., ABOWEI, and IROEGBU, B.C. 2008. Responses of Sarotherodon melanotheron and Oreochromis niloticus fingerlings exposed to various levels of perfekthion under laboratory condition. International Journal of Tropical Agriculture and Food Systems 2(1): 18-28.
- 24. ABOWEI, J.F.N., TAWARI, C.C., HART, A.I. and GARRICKS, D.U. 2008. Finfish species composition, abundance and distribution in the lower Sombreiro River, Niger Delta, Nigeria. *International Journal of Tropical Agriculture and Food Systems 2(1)*: 46-53.
- 25. ABOWEI, J.F.N. and HART, A.I. 2008. Artisanal fisheries characteristics of the fresh water reaches of lower Nun River, Niger

- Delta, Nigeria. Journal of Applied Sciences and Environmental Management 12(1):5-11.
- 26. IROEGBU, B.C., HART, A.I. and ABOWEI, J.F.N. 2008. Survival response of *Sarotherodon melanotheron* (Ruppel, 1852) fingerlings to various concentration levels of perfekthion under laboratory condition. *Journal of Applied Sciences and Environmental Management* 12(2):47-54.
- 27. ABOWEI, J.F.N., TAWARI, C.C., HART, A.I. and GARRICKS, D.U. 2008. Aspects of the ecology of Nigeria fresh waters: A case study on physico-chemical characteristics, plankton and finfish from lower Sombreiro River in Niger Delta. *Journal of Applied Sciences and Environmental Management* 12(2): 55-66.
- 28. HART, A.I. and ULONNAM, C.P. 2008. Toxicity and histopathological effects of oil-based drilling mud on edible periwinkle (*Tympanotonus fuscatus*). *African Journal of Applied Zoology and Environmental Biology 10*: 36-39.
- 29. ABOWEI, J.F.N. and HART, A.I. 2009. Some morphormetric parameters of ten finfish species from the lower Nun River, Niger Delta, Nigeria. *Research Journal of Biological Sciences* 4(3): 282-288.
- 30. KINGDOM .T. and HART, A.I. 2012. Population dynamics of Niger River prawn (*Macrobrachium Felicinum*) in Lower Taylor Creek, Niger Delta Nigeria. *Zoology and Ecology (1)* 1-6.
- 31. ZABBEY. N, A.I.HART and E.S. ERONDU. 2010. Functional roles of mangroves of the Niger Delta to the coastal communities and national economy. Proceedings of the 25th Annual Conference and fair of the Fisheries Society of Nigeria(FISON), 25th -29th October, 2010 at the Administrative Staff College of Nigeria (ASCON), Topo, Badagry, Lagos.

- 32. ZABBEY. N, E.S. ERONDU and A.I. HART. 2010. Nigeria and the prospect of shrimp farming: Critical issues. *Livestock Research For Rural Development 22(11)*: 1-6.
- 33. ZABBEY. N, A.I. HART and W.J. WOLFF. 2010. Population structure, biomass and production of the West African lucinid, *Keletistes rhizoecus* (Bivalvia, Mollusca) in Sivibilagbara swamp at Bodo Creek, Niger Delta, Nigeria. *Hydrobiologia* 654: 193 203.
- 34. ZABBEY. N and HART A.I. 2011, Preliminary check list of macro-zoobenthos of Bodo Creek in the Niger Delta, Nigeria. *Nigerian Journal of Fisheries 8(2)*: 272-283.
- 35. EZEKIEL. E, A.I. HART and J.N. ABOWEI. 2011. The distribution and seasonality of benthic macro-invertebrates in Sombreiro River, Niger Delta. *Nigerian Journal of Applied Sciences, Engineering and Technology* 3(4): 264-270.
- 36. EZEKIEL. E, A.I. HART and J.N. ABOWEI. 2011. Benthic macrofauna composition and abundance in Sombreiro River, Niger Delta. Nigerian Research Journal of Applied Sciences, Engineering and Technology 3(4):257-263
- 37. EZEKIEL. E, A.I. HART and J.N. ABOWEI. 2011. The physical and chemical condition of Sombreiro River, Niger Delta. *Research Journal of Environment and Earth Sciences* 3(4): 327-340.
- 38. EZEKIEL. E, A.I.HART and J.N. ABOWEI 2011. The Sediment, Physical and Chemical characteristics in Sombreiro River, Niger Delta, Nigeria. *Research Journal of Environmental and Earth Sciences* 3(4):341-349.
- 39. NWAKANMA. C and HART .A.I. 2012. Histopathological study of the effects of lethal concentration of oil-based mud (OBM) on the

- amphibious fish of the Niger Delta Basin in Southern Nigeria. *International Journal of Fisheries and Aquatic Sciences 1:* 1-4.
- 40. NWAKANMA. C and HART A.I. 2012. Determination of barium levels in soft muscle tissue of Niger Delta mudskipper, *Periophthalmus barbarus* (L) using back Scientific Atomic Absorption and Emission Spectrophotometer 200A(AAS). *Current Research Journal of Biological Sciences* 1:1-3.
- 41. NWAKANMA. C and HART A.I. 2012. The influence of oil-based mud exposure on the uptake of heavy metals and total hydrocarbon in *Periophthalmus barbarus* soft muscle tissue. *International Journal of Fisheries and Aquatic Sciences* 2:1-3.
- 42. NWAKANMA. C and HART. A.I. 2012. The effects of oil-based mud (OBM) on the survival of Periophthalmus barbarus (L) after 96 h. *Current Research Journal of Biological Sciences* 4(6): 682-684.
- 43. ORIAKPONO. O, HART A., AWI-WAADU G.D.B and NZEAKO. S. 2012. Anti-parasitic effects of methanolic extracts of *Artemisia annua* L. against parasites of *Sarotherodon melanotheron*. *International Journal of Modern Biology and Medicine* 1(2): 108-116.
- 44. ORIAKPONO.O, HART .A, and Wokoma. E. 2012 Acute haematological response of a cichlid fish, *Sarotherodon melanotheron* exposed to crude oil. *Journal of Toxicology and Environmental Health Sciences* 4(9): 151-155.
- 45. ORIAKPONO.O, HART. A. and WOKOMA. E. 2012. Biomarker response of a cichlid fish *Tilapia guineensis* to crude oil exposure. *International Journal of Modern Cellular and Molecular Biology* 1(1): 10-18.
- 46. KINGDOM, T and A. I. HART 2012. Fecundity and Gonadosomatic Index of Niger River Prawn, *Macrobrachium felicinum* In the Lower Taylor Creek, Niger Delta, Nigeria. *Nigerian Journal of Fisheries 9(1)*; 395-402

- 47. KINGDOM, T and A. I. HART 2013. Relative Efficiency and Selectivity of Ingo Traps in the Lower Taylor Creek, Niger Delta, Nigeria. *International Journal of Agriculture*. Photon 124 (2013) 211-216
- 48. KINGDOM, T., HART, A. I. and Erondu E.S. (2013): Effects of Environmental Factors on the abundance of shrimps, Macrobrachium species in the lower Taylor Creek, Niger Delta, Nigeria. *African Journal of Environmental Pollution and Health 10*: 71-79
- 49. Nte, M. E, Hart, A. E, Edun, O. M and Akinrotimi, O. A (2011): Effects of Industrial Effluents on Haemotological Parameters of Black Jaw Tilapia *Sarothedon melanotheron* (Rupell, 1852). Continental J. Environmental Sciences 5(2): 29-37, 2011
- 50. Nte, M. E, Hart, A. E, Edun, O. M and Akinrotimi, O. A (2011): Alterations in Enzymes Activities as a Biomarker in Black Jaw Tilapia (Sarotheredon melanotheron) Exposed to Industrial Effluents. Continental J. Biological Sciences 4 (2): 37-44
- 51. EDOGHOTU, A. J and HART, I. A 2014. Aspects of the Ecology of the Grass Mat Finfish Community of Kugbo Creek in Niger Delta Nigeria. Journal of Environmental Science, Toxicology and Food Technology. 8(10): 1-6.
- 52. EDOGHOTU, A.J and HART, I.A 2014. Feeding Habit of *Heterotis niloticus of* Kugbo Creek Niger Delta Nigeria. Journal of Environmental Science Toxicology and Food Technology 8(10): 26-29
- 53. OKOGBUE, B.C, HART A.I, ANSA, E.J and IKPI, G. 2014. Histological Analysis of Calcium carbonate on the juveniles of the Brackish river Prawn *Macrobrachium*(Herklot 1851). International Journal of Science and Technical Research. 3(3): 200-204.

- 54. OKOGBUE B.C, ANSA E.J, and HART A.I 2014. Impact of Calcium carbonate on the Juveniles of the Brackish River Prawn *Macrobrachium*(Herklot 1851) under laboratory conditions. Journal of Fisheries and Aquatic Science 9: 281-284.
- 55. NTE M.E, AND HART A.I 2014. Variation in some Biochemical constituents of *P. papillio* exposed to sub-lethal levels of Sodium bromide. Internation Institute for Science, Technology and Education. 2227-23891 pp49-65.
- 56. SIBE L., OSUJI L. C. & HART A. I. 2019. Physico-Chemical Alterations of Interstitial Water Quality by Artisanal Refining Operations at K-Dere Coastal Plain, South-Eastern Nigeria. International *Journal* of Scientific & Engineering Search 10 (12): 194 205.
- 57. O.S.E. OPETE, L.C.OSUJI AND A. I. HART 2019. Bioaccumulation of Heavy Metals and Hydrocarbon by Clibanarius africanus (Hermit Crab) Exposed to Produced Water. Annals of Ecology and Environmental Science 3 (3): 25 32.
- 58. DANIEL U.I, HART A. I. & IHEUKWUMERE R.I 2019. Studies on biogas generation and heat efficiency from cow dung and poultry waste in Port Harcourt, Nigeria. International *Journal* of Applied Research 5 (12): 293 296.
- 59. SIBE L, OSUJI L. C, HART A. I. 2019. Probabilistic Risk Assessment of Heavy Metals in Shellfish from an Artisanal Refining Site, K-Dere, South-South Nigeria. IOSR Journal of Environmental Science, Toxicology and Food Technology 13 (12): 53 62.
- 60. O. S. E. OPETE, L. C. OSUJI & A. I. HART 2019. Acute Toxicity of Tilapia guineensis Fingerlings Exposed to Treated Produced Water from the Niger Delta Region o Nigeria. International *Journal* of Research Studies in Biosciences 7 (12): 8 21.

BOOKS

- KINAKO, P.D.S., NYANANYO, B,L. and HART, A.I. (1995)
 Introduction to Ecology and Systematic. Belk Publishers, P.H. ISBN 978-2801-05-4.
- KINAKO, P.D.S., NYANANYO, B,L. and HART, A.I. (1998)
 Arena of Life: A Laboratory and Field Manual for General Biology Students.
 Belk Publishers, PH.ISBN 978-2801-11-9.
- 3. NYANANYO, B.L., HART, A.I. and AWI-WAADU, G.D.B(1999)
 Fundamental Principle of Biology. Belk Publishers, PH. ISBN 978-2801-12-7
- 4. HART, A.I and AGI, P.I (2000) Elements of the Biology of higher Invertebrates. Charismatic Forum Publishers, Owerri, ISBN 978-2911-24-0
- 5. HART, A.I., IMAFIDOR H.O, IBIENE, A.A., WEGWU, N.O., NWINUKA M.N., WOKOMA, E.C. AND AKONYE, L.A. (2007). Biology The Basics of Life. Paragraphics, Port Harcourt, ISBN 978-2954-56-x, 188pp. A.I. HART (EDITOR)
- 6. HART, A.I and E.C. WOKOMA (2007). Foundation of life. A Practical Manual. ISBN: 978-33527-6-9.
- 7. ONYEIKE, E.N., BEKA, F.T., AGBAGWA, I.O. CHUKWUOCHA, E.O., IBIENE, A.A., OSUJI, L.C. and HART A.I. (2008). Introduction to History and Philosophy of Science. (workbook). Emhai Publishing Co. Port Harcourt, ISBN: 978-33527-9-4. 40pp. HART A.I. (EDITOR).
- 8. ONYEIKE, E.N., BEKA, F.T., AGBAGWA, I.O. CHUKWUOCHA, E.O., IBIENE, A.A., OSUJI, L.C. and HART A.I. (2008). Introduction to History and Philosophy of Science. Paragraphics Publishers Port Harcourt, Isbn: 978-29541-9-5. 180pp. HART (EDITOR)

RESEARCHES CARRIED OUT/EXPERIENCES

1. ESTABLISHMENT/DATE: University of Port Harcourt
Department Committee 1989

POSITION: PROJECT:	Scientist Study of the fauna of the Niger Delta with emphasis on the economic importance of the animals.
TASK:	Assessment of aquatic invertebrate fauna, surveys of the river systems and water chemistry in relation to the control and the distribution of crustaceans and fishes.
ESTABLISHMENT/DATE:	University of Port Harcourt Development Committee 1996
POSITION:	Scientist
PROJECT:	Studies on Fish Parasites of the Niger Delta waters of Rivers State, Nigeria
TASK:	Determination of identity and distribution of marine/brackish water fish parasites in estuaries and creeks of Rivers State.
ESTABLISHMENT/DATE:	University of Port Harcourt Development Committee 1988

Scientist

2.

3.

POSITION:

Prof. A. I. Hart's C.V 17

PROJECT: Short term effects of deforestation on

benthic macro invertebrates of

the intertidal region of Niger Delta.

TASK: Assessment of effects of

deforestation on benthic

microhabitat, Macro-invertebrates

associated with mangrove trees, and

benthic macro fauna.

4. ESTABLISHMENT/DATE: University of Port Harcourt

Development Committee 1998.

POSITION: Scientist

PROJECT: A review of the benthic macrofauna

of the mangrove forest of Eagle

Island (Seven years after).

TASK: Obtaining a checklist of benthic

macrofauna of the mangrove

ecosystem of Eagle Island.

Assessment of the abundance

and distribution of benthic

macrofauna.

5. ESTABLISHMENT/DATE: National Agricultural Research

projects (NARP-World Bank Assisted) University of Port Harcourt 1996.

offiversity of Fort Hareourt 1996

POSITION: Team Leader/Scientist

PROJECT: Stock assessment of fish resources

And potential yield of Nun River

TASK: Survey of fish resources.

Limnological assessment and

Productiveity Assessment of potential

fish yield.

6. ESTABLISHMENT/DATE: Agricultural Research Projects

(NARP-world Bank Assisted)

University of Port Harcourt 1996.

POSITION: Scientist

PROJECT: Cage and Pen Fish Culture.

TASK: Assessment of means of obtaining

optimum use of intertidal wetlands to monitor the effect of optimal feeding

on growth of Fish through cage culture. Determination of effect of proper management technique on fish production through cage and

pen culture.

7. SESTABLISHMENT/DATE: Rivers State Environmental

Protection Agency 1997.

POSITION: Member, Technical Review Panel

Exercise

PROJECT: E.I.A. on the Dredging of Waterways and Jetty Projects in Finima, Bonny Local Government Area by Mobil Producing Nigeria Unlimited, Lagos, Nigeria. TASK: Technical review of E.I.A. Studies by Unilag Consult for Mobil. 8. ESTABLISHMENT/DATE: Federal Ministry of Environment 1999 POSITION: Member, Review Panel Exercise PROJECT: E.I.A. of Santa Barbara Initial Field Development Plan by Shell petroleum Development Company. Technical review of the E.I.A. TASK: Studies. ESTABLISHMENT/DATE: Federal Ministry of Environment 9. 2001 POSITION: Consultant (Ecology), Review Panel Exercise E.I.A of Bonny Field Development PROJECT: Plan by Shell Development Company TASK: Technical review of the E.I.A Studies.

10. ESTABLISHMENT/DATE: Dar Al- Handasah 2001 POSITION: Consultant (Fisheries)

PROJECT: Bonny Master Plan

TASK: Update and Inventory of Fishing

Activities and Settlements in the

Bonny Local Government.

11. ESTABLISHMENT/DATE: Federal Ministry of Environment

2002

POSITION: Chairman Review Panel Exercise

PROJECT: E.I.A. of Obiafu-19 Location Drilling

Project by Nigeria

Agip oil Company Ltd.

12. ESTABLISHMENT/DATE: SPDC 2003

POSITION: Consultant (EIA)

PROJECT: E.I.A. Reports Review Exercise

TASK: Review of 20 EIA Reports and

Production of an Assessment

report/recommendation

13. ESTABLISHMENT/DATE: Federal Ministry of Environment

2004

POSITION: Consultant (Ecology/Fisheries)

PROJECT: E.I.A. of the proposed West African

Gas Pipeline	Company	Limited
Project		

TASK: Technical Review of the EIA

14. ESTABLISHMENT: Star Water Deep Petroleum Limited

(Chevron)

POSITION: Consultant (EIA pre Draft

Preparation)

PROJECT: Agbami Field Development Project

EIA

TASK: Preparation of Final E.I.A Report.

15. ESTABLISHMENT: SPDC 2005.

POSITION: Consultant (EIA)

PROJECT: Oghbia-Akipelai-Nembe Road

Project Bayelsa State

TASK Preparation OF THE EIA Report

16. ESTABLISHMENT: Federal Ministry of Environment

2005

POSITION: Consultant (Ecology)

PROJECT: EIA of the proposed Swamp Area Gas

Gathering Project by Nigeria Agip Oil

Company

TASK: Technical Review of the EIA.

17. ESTABLISHMENT: SPDC 2005

POSITION: Consultant (EIA)

PROJECT: Saghara Field AG Solution Project

Environmental Society + Health impact

Assessment (ESHIA)

TASK: Draft Report Preparation-Seibou Appraisal

well

18. ESTABLISHMENT: SPDC 2006

POSITION: Consultant (EIA)

PROJECT: Impact Assessment (ESHIA) Desktop Draft

TASK: Report Preparation.

19. ESTABLISHMENT: Federal Ministry of Environmental 2006

POSITION: Consultant (Ecology)

PROJECT: EIA of the proposed Clough creek field

Further development project by Nigeria

Agip Oil Company

TASK: Technical Review of the EIA

20. ESTABLISHMENT: Federal Ministry of Environmental 2006

POSITION: Consultant (Ecology)

PROJECT: (a) EIA of RIVGAS Refinery and

Petrochemicals Limited Project by Rivers

State Government.

(b) EIA of NSP/Rivers State Government

Refinery project.

TASK: Technical review of the two EIA Reports.

21. ESTABLISHMENT: SPDC 2006

POSITION: CONSULTANT (EIA)

PROJECT: Nigeria Upstream Gas Supply (NUGS)

Project.

TASK: Incorporation of FMENV comments into

final EIA Report.

22. ESTABLISHMENT: Nigerian Agip Oil Company 2007

POSITION: Consultant (EIA)

PROJECT: 30km of the 45km 18" Tebidaba Brass

Pipeline Replacement Project.

TASK: Review of first Draft Report.

23. ESTABLISHMENT: Federal Ministry of Environment Housing

and Urban Development 2007.

POSITION: Consultant (Ecology)

PROJECT: EIA of the Proposed Owaza-Osisioma

Pipeline Project by Shell Nigeria Gas Ltd

TASK: Technical Review of the EIA.

24. ESTABLIHMENT: Federal Ministry of Environment 2009

POSITION: Consultant (Ecology)

PROJECT: EIA of the Proposed Aroh Drilling Project

in OML III

TASK: Technical Review of the EIA

25. ESTABLISHMENT: Federal Ministry of Environment 2009

POSITION: Consultant (Ecology)

PROJECT: Railway Modernization Project Lagos

Ibadan line

TASK: Technical Review of the EIA

26. ESTABLISHMENT: Federal Ministry of Environment 2009

POSITION: Consultant (Ecology)

PROJECT: Railway Modernization Project Abuja-

Kaduna line

TASK: Technical Review of the EIA

27. ESTABLISHMENT: Agip Energy and Natural Resources

POSITION: Consultant

PROJECT: Agbara Phase II Project

TASK: Review of the Draft EIA Report.

28. ESTABLISHMENT: Federal Ministry if Environment (2011)

POSITION: Chairman/Consultant (Ecology)

PROJECT: EIA of the proposed construction of open

cycle gas turbine plant project at Afam by

Rivers State Government.

TASK: Review of the EIA.

29. ESTABLISHMENT: Federal Ministry of Environment (2011)

POSITION: Consultant (Ecology)

PROJECT: EIA of the proposed construction of

Telecommunication base stations project

North East Zone (Adamawa, Bauchi,

Borno, Gombe, Taraba and Yobe states

(By Airtel)).

TASK: Zonal panel review of the EIA.

30. ESTABLISHMENT: Federal Ministry of Environment 2012

POSITION: Chairman/Consultant (Ecology)

PROJECT: Proposed Alausa 19.44MW Independent

Power plant project at Alausa, Lagos.

TASK: Panel review meeting of the EIA.

31. ESTABLISHMENT: Federal Ministry of Environment 2012

POSITION: Chairman/Consultant (Ecology)

PROJECT: Proposed Ihiala 132KV Substation by

Niger Delta Power Holding Company.

TASK: Panel review meeting of the EIA.