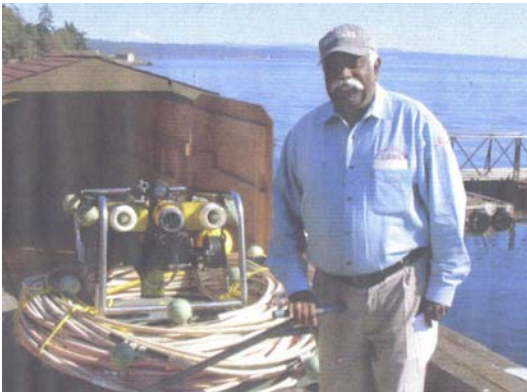


CV: Prof. Robert Y. George Ph. D.



**Position:** President and CEO, George Institute for Biodiversity and Sustainability (GIBS), 305 Yorkshire Lane, Wilmington, North Carolina, 28409.

and

Adjunct Professor of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami

Professor, UNCW, Wilmington, North Carolina 1972-2003 (Retired in 2003 and now associated in the capacity as Research Professor, Gotenburg Univ. In summers, Dr. George conducts research on live deep-sea corals in the Kristineberg Marine Research Station in Sweden.

Founding member of the 'Board of directors of Fulbright Academy'.

Founder of the North Carolina Chapter of the Fulbright Association.

**Professional Background:** M.S. and Ph.D. from the University of Madras, India –1963

NSF Postdoct. with Dr. Dixie Lee Ray at Friday Harbor Laboratories, University of Washington – 1964-66

Research Oceanographer at Duke University Marine Lab. Deep-sea biology studies aboard *R/V Eastward* – 1966-67

Adjunct Professor at Florida State University- 1968-1972

**Focus:** Sustainable ecosystems (LMEs/subunits) functioning in harmony on Planet Earth.

**Priority:** Earth's spacious and most voluminous biome –“Deep-Sea below Gulf Stream and Seamounts”.

**Honors:** 1. Recipient of the 'Antarctic Service Medal' twice from NSF for research in McMurdo Sound, and Palmer Peninsula, Antarctica in 1984 and 1986.

2. Recipient of 'Sir. George Deacon Medal' for bridging Science and Management of Megascale Marine Ecosystems (Southern Ocean).

3. Selected jointly by US Academy of Sciences and Soviet Academy of Science for 3 months visit to the University of Moscow to give lectures in 1979.

4. Appointed lifetime Honorary Professor at the Swedish Academy of Sciences' Kristineberg Marine Research Station (Gothenburg University) in 2003 based 8 consecutive summers of marine research in Sweden.

5. Twice Fulbright Professor to the Kamaraj University, India (1984 and 1988).

6. NSF Chief scientist of USNS ELTANIN Cruise (2 months) in the Southern Ocean, Antarctica. This was the Argentine-US Expedition of *Islas Orcadas*.

7. Invited as US delegate to participate in the Second Global Large Marine Ecosystems (LME) Conference in Qingdao, China (Sept. 11-13, 2007).

**Publications:**

Co-author of the deep-sea biology text book: “Abyssal Environment and Ecology of the World Oceans”, by Robert J. Menzies, Robert Y. George and Gilbert T. Rowe, John Willey Inter-Science NY. 542 pp

**Editor of the book:** “Conservation and Adaptive Management of Seamount and Deep-Sea Coral Ecosystems”, edited by Robert Y. George and Stephen D. Cairns, RSMAS, Univ. of Miami 2007 (In Press, Nov. 2007).

**Editor:** “Biology of the Antarctic Krill: Proceedings of the first International Symposium on *Euphausia superba*”, edited by Robert Y. George, *Journal of Crustacean Biology*- Special Number in 1984.

**Editor:** “Coastal Ecology Symposium Proceedings”. Edited by Michael J. Durako and Robert Y. George. ‘*The ASB Bulletin*’ (The Official Publication of the Association of Southeastern Biologists) Vol. 46, No. 4 pp.245 – 330.

**Editor:** “Deep-Sea Corals: Biology and Geology”, Proceedings of the 3<sup>rd</sup>

International Symposium on Deep-Sea Corals, held in RSMAS, University of Miami in Nov. 28-Dec2, 2005, edited by Robert Y. George and Stephen Cairns. *Bulletin of Marine Science*, Nov. 2007.

**Organizer:** Organized and conducted the October 24-25, 2006 “Harvard University Declaration Conference” that led to convince JSOST to create the “Interagency Deep-Sea Coral Board”.

**Adviser:** Serves now as adviser to NOAA-Fisheries on deep-sea coral habitat conservation and gave an invited address in NOAA headquarters in Silver Spring, Maryland on Aug. 3, 2007. Audience included members of the JSOST’s “Deep-sea coral board” and Several NGOs.

**Organizer:** Organized the first “North Carolina Coastal Oceanography Symposium” in Wilmington in 1987 and edited the symposium proceedings (600 pages) as National Undersea Research Program (NURP) Research Report No. 89-2 published in 1989 under NOAA sponsorship.

Organized the “GIBS-Second North Carolina Coast Symposium: You and Your Ecosystems” in 2006 in Wilmington, North Carolina.

See

[www.GIBSconservation.org](http://www.GIBSconservation.org)

Click Symposium 2006 and then click “Symposium Findings and Recommendations”.

**International Service:**

1. Member, Steering Committee for International Deep-Sea Coral Symposia since 2002. (Halifax symposium in 2001 in Canada,

Erlangen Symposium in Germany 2003, and Miami Symposium in 2005 and Wellington Symposium in 2008 in NZ.

2. Member, International Council for Explorations of the Seas (ICES)- Deep-Sea Ecology Working Group (WG), Copenhagen, Denmark.

**Author of 66 peer-reviewed research papers.**

### **I. Research Papers (Deep-Sea Corals):**



1. George, R. Y, T. A. Okey, J. K. Reed and R. P. Stone, 2007. Ecosystem-based fisheries management of seamount and deep-sea coral reefs in US Waters. In: George R. Y. and S. Cairns (edited), "*Conservation and Adaptive Management of Seamounts and deep-Sea coral ecosystems*". RSMAS,

University of Miami Press (in Press)

2. Guinotte, J.M, J. Orr, S.Cairns, A. Freiwald, L. Morgan and R. Y. George. 2006. Will human-induced changes in seawater chemistry alter the distribution of deep-sea scleractinian corals? *Front. Ecol. Environ* 4 (1): 141-146.
3. Cohen, A. L, G. A. Gaetani, T. Lundalv, Br. Corliss and R. Y. George, 2006. Compositional variability in a cold-water scleractinian, *Lophelia pertusa*: New insights into "vital effects". *Geochemistry, Geophysics and Geosystems (G3)*: 7(2): 1-10.
4. George, R. Y. 2005. Ecosystem-based fisheries management for *Lophelia* reef HAPC at the northern most "Agassiz Coral Hills" at bathyal depths off Cape Lookout, North Carolina. International Council for the Explorations of the Seas (ICES)- Annual Science Conference (ASC 2005), Aberdeen, Scotland (22 pp, published in Conference Proceedings and in CD as GIBS Research Report 3.
- 5, George, R. Y. 2004. *Lophelia* Coral Reefs on Blake Plateau: Biodiversity and Sustainability. International Council for the Explorations of the Seas (ICES) – Annual Science Conference (ASC 2004), Vigo, Spain. 33 pp. published in Conference Proceedings and in CD as GIBS Research Report 2.

6. George, R. Y. and T. Lundalv, 2003. Thermal tolerance and metabolic response of the scleractinian deep-sea coral *Lophelia pertusa* from Koster Fjord in Sweden and Blake Plateau off North Carolina. Paper presented at the Second International Deep-Sea Coral Symposium in Erlangen, Germany.
7. George, R. Y. 2003. Deep-Sea Coral reef ecosystems on both sides of North Atlantic Ocean: Latitudinal and longitudinal gradients in biodiversity and Species Composition. Paper Presented at the 10<sup>th</sup> International Deep-Sea Biology Symposium in Coos Bay, Oregon.
8. George, R. Y. 2002. Ben Franklin Temperate reef and deep-sea Agassiz Coral Hills in the Blake Plateau off North Carolina. *Hydrobiologia* 471: 71-81.
9. George, R. Y. and D. Lindquist, 1999. Biological Impact of the Gulf Stream On Coastal Marine Ecosystems. In: Proceedings of the Coastal Ecology Symposium, ASB 1999 (edited by M. J. Durako and R. Y. George), ASB Bulletin Vol. 46, No. 4: 310-324.
10. George R. Y. 1981. Functional adaptations of deep-sea organisms. Chapter 8. In: F. J. Vernberg and W. B. Vernberg (edited), *Functional Adaptations Marine Organisms*, pp. 279-332, Academic Press.

11. Ceasare Emiliani and Robert Y. George, 1978. Oxygen and Carbon Isotopic Growth in a Reef Coral from the Florida keys and a Deep-Sea Coral from Blake Plateau. *Science* 202, pp. 627-629.



Atka Mackerel swimming by Gorgonian Garden in the Aleutian Cold Coral Reefs off Alaska.

Photo Below: Prof. George in Moscow as Visiting Professor in the University of Moscow in 1979.



## II. Research Publications on Isopod Crustacea Systematics.



Deep- Sea Isopod *Munnopsis*

1. George, R. Y. 2004. Deep-Sea asellote isopods (Crustacea, Eumalacostraca) in the Northwest Atlantic: the family Haploniscidae. *Journal of Natural History* (38): 337 – 373.
2. George R. Y. 2004. Janirellidae and Dendrotonidae (Crustacea: Isopoda: Asellota) from bathyal and abyssal depths off North Carolina and their evolution. *Travaux duMuseum National d Histoire Naturelle* Vol. XVII: 43 – 73.
3. George R. Y. 2003. *Bermudasignum frankenbergi*, N. gen. N. Sp. (Crustacea: Isopoda) off Bermuda and Evolution within the Family Mesosignidae. *Bulletin of Marine Science* 73(3): 699 – 712.
4. George R. Y. 2003. Two new species of Gnathiid isopd crustacea from North Carolina Coast. *Journal of the North Carolina Academy of Science* Vol. 119 (2): 33 - 40
5. George R. Y. 1999. New species of isopod crustaceans from the mid-shelf reefs and Blake Plateau off North Carolina. *Journal of Elisha Mitchell Scientific Society* (North Carolina) 113: 163 –170.
6. George , R. Y. and A. A. Longerbeam. 1998. New species of Cirolanid Isopod Crustacean *Eurydice bowmani* n. sp. from a mid-shelf reef in Onslow bay off North Carolina. *The Elisha Mitchell Scientific Society* 113 (4): 163 – 170.
7. George, R. Y. 1987. *Storothyngura torbeni* n. sp. of hadal isopod from the Puerto Rico trench and an hypothesis on its origin (Crustacea: Eurycopidae). *Proceedings of the Biological Society of Washington* 100(4): 681-686.
8. George R. Y. 1986. *Serolis agassizi* n. sp from the deep-sea off Cape Fear, North Carolina (Crustacea: Isopoda). *Proceedings of the Biological Society of Washington* 99 (1): 46 – 50.
- 9 George R. Y. and Ileana Negoescu, 1985. Anthuridean Isopods (Crustacea) from the subantarctic Islands (South Georgia, South Sandwich and South Orkney islands) *Travaux du Museum d'Historire Naturelle Grigore Antipa, Bucharest, Romania.* 27: 19-47.
10. George, R. Y. and Ileana Negoescu, 1982. *Ocsanthura bacescui*, A New Anthuridean isopd (Isopda, Anthuridea) from the outer continental shelf of North Carolina. *Extrait des Travaux du Museum d'Historie naturelle Gerigore Antipa.* Vol 24: 97 – 103.
11. George R. Y. and N. Hinton, 1982. A new species of deep-sea isopod *Storothyngura myriamae* n.sp. from Walvis Ridge off South Africa. *Proc. Biol. Soc. Washington* 95 (1): 93 –98.

12. Paul, A. Z. and R. Y. George, 1976. High Arctic Benthic Isopods from the Fletcher's Ice Island T-3. *Crustacean* 29(2): 166 – 169.

13. George, R. Y. 1972. Biphasic molting in isopod crustacea and the finding of an unusual mode of molting in the Antarctic giant isopod *Glyptonotus*. *Annals and Magazine of Natural History* 6(6); 651- 656.

14. George, R. Y. and R. J. Menzies, 1972. Deep-Sea faunal zonation of isopods crustacea in the Beaufort-Bermuda Transect in the Northwestern Atlantic. *Proceedings of the Royal Society of Edinburgh, UK (B)*: 73(19): 183-195.

15. George R. Y. and R. J. Menzies, 1972. Monograph on Isopod Crustacea of the Peru-Chile Trench. *Anton BruunReport* No. 9: 1- 124 pp. Scientific Results of the Southeast Pacific Expedition, Texas A & M University Press.

16. George R. Y. 1968. Additions to the Mediterranean deep-sea isopod crustacea (VEMA Cruise 14). *Revue Biologie in Zoologie series* 13(6): 367 – 384

17. George, R. Y. and J. O. Stromberg. 1968. Some new species and new records of marine isopod crustaceans from San Juan Archipelago, Washington. *Crustaceana* 14 (3): 225 – 254.

18. George R. Y. 1968. Further evidence for seasonal breeding cycles in the deep-Sea. *Nature* 220 (5162): 80-81.

19. Menzies R. J., George R. Y. and G. T. Rowe. 1968. A vision index for

isopod crustaceans related to latitude and depth. *Nature* 215 (5123): 93-96.

20. George, R. Y. and R. J. Menzies, 1968. Distribution and Possible origin of the species in the deep-sea genus *Storothyngura*. *Crustaceana* 14 (3): 304 – 318.

21. George R. Y. and R. J. Menzies. 1968. Species of *Storothyngura* (Crustacea: Isopoda) from the Antarctic with description of six new species. *Crustaceana* 14(3): 275-301.

22. George R. Y. 1967. Indication of cyclic reproductive activity in abyssal organisms. *Nature* 215(5103): 878 – 880.

### III. Research Publications in Polar Marine Biology/Physiology:



Antarctic Krill *Euphausia superba*

1. Thillart G., George R. Y. and Stromberg J. O. 1999. Hypoxia sensitivity and respiration of the Arctic euphausid crustacean *Meganyctiphanes norvegica* from Gullmarn Fjord, Sweden. *SARSIA* 85: 105 – 109.

2. George, R. Y. and A. M. Alyse. 1989. Pressure physiology: Retrieval of deep-sea organisms and pressure incubation in laboratory chambers. *Deep-Sea Newsletters* 15(1): 5 –11.

3. George, R. Y. 1988. Eggs and embryos of the Antactic Krill *Euphausia*

*superba*. *US Antarctic Journal* 22 (5): 207-215.

4. George, R. Y. 1985. Basal and active metabolic rates of polar and deep-sea animals in relation to pressure and food ration. *Proceedings of the European Marine Biology Symposium in Plymouth, UK*. 22 pp.

5.. George R. Y. 1985. Metabolism of the Antarctic krill *Euphausia superba* and its trophodynamic implications. In: Antarctic Nutrient Cycles and Food Webs, edited by W. R. Sigfried, R. Laws and P. F. Condy, Springer Verlag, pp. 224-232.

6. Amsler M. and R. Y. George, 1985. Changes in the biochemical composition of *Euphausia seperba* Dana during development. *Polar Biology* 3: 110-122.

7. George R. Y. and J. O. Stromberg. 1985. Development of the eggs of the Antarctic krill *Euphausia superba* in relation to pressure. *Polar Biology* 4: 125 – 133.

8. Dillaman, R., George, R. Y. and Stromberg J. O. 1985. Ultrastructure of the fertilized eggs of the Antarctic Krill *Euphausia superba*. *Journal Crustacean Biology* 5(3): 440-448.

9. George R. Y. and J. R. Fields, 1984. Ammonia excretion in the Antarctic Krill *Euphausia superba* in relation to starvation and ontogenetic stages. *Journal of crustacean Biology* 4(1): 263-276.

10. George R. Y. 1984. Ontogenetic adaptations in growth and respiration of

*Eupahusia superba* in relation to temperature and pressure. *Journal Crustacean Biology* 4(1): 252 – 262.

11. Fevolden S. and George R. Y. 1984. Size frequency patterns of *Euphausia superba* in the Antarctic Pennisular waters in the austral summer of 1983. *Journal of Crustacean Biology* 4(1): 107-122.

12. El-Sayed, S. Z. and R. Y. George. 1984, Workshop on Krill distribution and physical oceanography. *Journ. Crustacean Biol.* 4 (1): 330 – 337.

13. George R. Y. 1983. Krill swarms and life cycle in relation to physical and biological oceanographic parameters in the Southern Ocean. *Berichte zue Polarforschung* 4: 9-21.

14. George, R. Y. 1979. Behavioral and Metabolic Adaptations of polar and deep-sea crustaceans: A hypothesis concerning physiological basis for evolution of cold adapted crustaceans. *Bull Biol. Soc. Washington*. #: 283 – 296.

15. George R. Y. 1975, Ecophysiological Adaptations of Antarctic Marine Benthos. *Proc. Third Symposium on Antarctic Biology*. National Academy of Sciences, Washington DC, Sept. 10-13, 1974, George A. Llano (Editor).

16. George R. Y. 1974. Dissimilar and similar trends in Antarctic and Arctic Marine Benthos. *Proc. SCAR/SCOR Polar Oceans Conference In: POLAR OCEANS*, edited by M. J. Dunbar. 25 pp.

17. George, R. Y. 1973. Structure and function of Antarctic marine benthic

community. *U. S. Antarctic Journal* 8 (5): 279 – 280.

18. George R. Y. and A. Z. Paul. 1970. USC-FSU biological investigations from the Fletcher's Ice Island T-3 on deep-sea and under-ice benthos of the Arctic Ocean. Office of the Naval Research – *ONR Report* (73 pp).

19. George R. Y. 1969. Thermal sensitivity of hyposychral species of high Arctic and Antarctic marine crustacea. Contributed Paper in Biological Oceanography. Joint Oceanographic Assembly, Tokyo, Japan VIII: 23 –51.

#### IV. Miscellaneous Publications:

1. George, R. Y. 2007. Memories from ASB annual meeting in Columbia, South Carolina. *Southeastern Biology* Vol.54 No. 4 October 2007 pp. 427-429.

2. George, R. Y. 2005. Memories of 2006 ASB – Gatlinburg in the vicinity of the Great Smokey Mountains National Park in Tennessee. *Southeastern Biology* Vol. 53 No. 3 September 2006.

3. George R. Y. 2002. Recollections from 2002. ASB Keynote Address by Dr. Bruce Roe. *Southeastern Biology* Vol. 49 No. 4 pp. 369 –371.

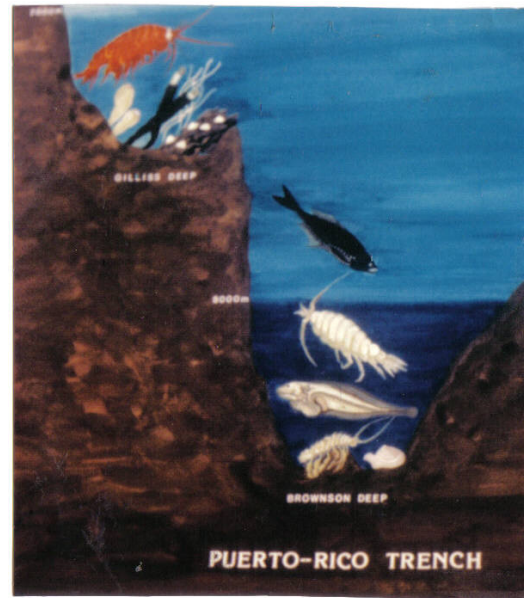
4. George R. Y. and D. Lindquist. 2000. Biological impact of the Gulf Stream on coastal marine ecosystems: Are there seasonal and climatological signatures. *Bulletin of the Association of Southeastern Biologists*. 46 (4): 310 – 320.

5. M. Amsler and R. Y. George. 1984 Seasonal variation in the biochemical

composition of the embryos of *Callinectes sapidus* Eathbun. *Jour. Crustacean Biol.* 4(4): 546 –555.

6. George R. Y. and J. C. Heideman. 1981. Biological and Engineering parameters for fouling growth on oil platforms off Louisiana. *Proc. Mar. Tech. Soc.* Vo. 21: 550 – 557.

7. George R. Y. and R. P. Higgins. 1979. Eutrophic hadal benthic community on the floor of the Puerto Rico Trench at 9200 meters. *AMBIO* Vol. 6: 51-58.



Hadal Life at 10,000 meters

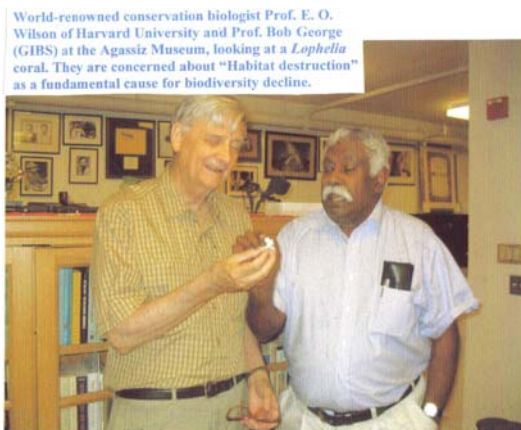


8. George, R. Y. 1976. Pressure-temperature effects on deep-sea metazoans during retrieval and subsequent acclimation. Contributed Paper to the Biological Oceanography Symposium, Joint Oceanographic Assembly, Edinburgh, Scotland.
9. George, R. Y. 1976. Functional Adaptations of Deep Sea Organisms. Chapter 8. In: "*Functional Adaptations of Marine Organisms*", edited by John Vernberg and Winona Vernberg. Academic Press.
10. George R. Y. 1975. Potential effects of oil drilling cutting dumping activities on marine biota. In: Proc. Symposium on Environmental Aspects of chemical use in oil-well drilling operations. Houston, Texas, May 21 –23, 1975. 19 pp.
11. George, R. Y. 1974. Distribution trends of deep-sea benthos in trenches with new data from the Cayman Trench in the Caribbean Sea. Contributed paper in the deep-Sea Biology Symposium, 37<sup>th</sup> ASLO - American Society for Limnology and Oceanography annual meeting in Seattle. July 12, 1974.
12. George, R. Y. and P. J. Thomas. 1979. Biofouling community in the Louisiana shelf Oil platforms in the Gulf of Mexico. *Rice University Studies* 65(4-5): 553-574.
13. Menzies, R. J. and R. Y. George, 1972. Temperature effects of behavior and survival of marine invertebrates exposed to variations in hydrostatic pressure. *Mar. Biol.* 13 (2): 155 –159.
14. George R. Y. and R. J. Menzies, 1972. Hydrostatic pressure-temperature effects of deep-sea colonization. *Proc. Roy. Society B*: 195 – 202.
15. George R. Y. and R. J. Menzies. 1972, Deep-Sea Faunal Zonation in the Beaufort-Bermuda Transect in the North-western Atlantic Ocean. *Proc. Royal Soc. Edinburgh B* 73 (19): 183 – 194.
16. Menzies, R. J., R. Y. George and R. Avent. 1972. Responses of selected aquatic organisms to increased hydrostatic pressure: Preliminary results. In: *Barolbiology and Experimental Biology of the Deep-Sea*. Edited by R. W. Brauer, University of North Carolina Press. Pp. 37 –57.
17. Menzies, R. J. and R. Y. George, 1967. A re-evaluation of the concept of hadal or ultrabyssal fauna. *Deep Sea Research* 14: 456 – 479.
18. George, R. Y., 1967. The effects of exposure to air on intertidal isopod *Sphaeroma walkeri*. *Jour. Mar. Bio. Assoc. India* 9 (2): 392 – 398.
19. George, R. Y. 1966. Glycogen content in the wood-boring isopod, *Limnoria lignorum*. *Science* 153 (3741): 1262 – 1264.
20. George, R. Y. 1965. The significance of fungi in the destruction of timber by sphaeromid isopods. *Proc. Symposium on Marine Paints. Bombay, India. Navy Research Report*.
21. George, R. Y. 1965. Observations on the osmotic behavior of a stenohaline isopod *Sphaeroma walkeri*. *Proc. International Symposium on Crustacea. Mar. Biological Association in India. Symp. Ser. 2*: 1067 – 1073.

## Membership in Professional Societies

1. American Association for the Advancement of Science (AAAS).
2. American Polar Society.
3. Sigma Xi, Florida State University Chapter.
4. North Carolina Academy of Sciences.
5. Deep-Sea Biology Society.
6. Association of Southeastern Biologists –ASB (Chair, Conservation Committee).
7. National Geographic Society.
8. Y. M. C. A.
9. American Fisheries Society
10. North Carolina Beach, Waterways and Inlets Association

Photo below Harvard Conservation biologist Prof. Ed Wilson and Prof. Bob George at the Agassiz Museum.



**Aboard R/V Tursiops In  
The Gulf of Mexico**

## Chief Scientist of Ocean Research Expeditions/Cruises

1. August, 1967 (one month) – R/V *Eastward* Sargasso Sea Expedition (Duke University) in the Northwest Atlantic Ocean. Discovered and described 72 new species of deep-sea isopod crustaceans.
2. September – November, 1967 (3 months) – Leader of the Antarctic Marine Biology Expedition in Scotia Sea with sojourn in U. S. NSF Research Station in Mc Murdo, Antarctica.

**“Photos below show the Antarctic seals (Weddell seal, the deepest diver to eat squids) looking curiously when I stood close to it with hands raised, another Weddell seal with her baby on her side and a crab-eater seal sleeping on drifting ice. It should be krill-eater seal, no crabs around Antarctica). Global warming has**

**brought a regime shift in the Southern Ocean and Krill populations are declining and Adelie penguins and elephant seals are facing starvations and threat of extinction if the warming trend continues. We must save these endangered species by cutting down carbon emission”**

**Bob George.**



3. July 5 – 14, 1968. R/V *Tursiops* Expedition to the Dry Tortugas, Western Gulf of Mexico for exploration of

pharmaceutical compounds from sponges (collaboration with Dr. William Moss).

4. September – November, 1969 (3 months) Leader of University of Southern California (USC) Marine Biology Team aboard the *Fletcher's Ice-Island T-3*, while floating in the Central Arctic Ocean (above *Alpha* and *Lomonosov* Ridges and North Pole) - U. S. Navy-funded Arctic deep-sea ecology project.

5. July, 1970 (2 weeks) – Co-chief scientist with Prof. Robert J. Menzies of Florida State University aboard R/V *Undaunted* in the Northwestern Atlantic Ocean Over the Blake Plateau to study deep-sea coral reefs.

6. Nov. 5 to Dec. 15, 1971 (40 days) – Chief Scientist of Florida State University Team aboard *U. S. N. S. MIZAR* (ship that discovered the sunken H-Bomb) to study impacts of Deep-Sea Dumping over the DWD Dump-Site off South Carolina (Project funded by U. S. Naval Research Lab., Washington DC).



**Aboard MOZAR with 2 Ph.D students**

7. May 15 – June 20, 1972 (35 days) – Co-Chief Scientist with Prof. R. J. Menzies (FSU) aboard *U. S. N. S. MIZAR* to perform under-sea photo-survey, using the Navy's 'sophisticated

Remotely Operated Vehicle' (ROV), in the '105 Deep-Sea Mmunition Dump Site' off New Jersey (Classified research, now declassified)

8. August, 1972 (20 days)- Co-chief scientist (UNCW, North Carolina) with Prof. **R. J. Menzies** (FSU, Florida ) aboard Texas A & M University's Research ship *R/V Alaminos* to explore the Gulf of Mexico under the NSF project on deep- sea ecology.

9. August 15 –September 15, 1973 (30 days) Chief scientist (as UNCW Research Oceanographer) aboard *R/V Alaminos* to explore the hadal depths (more than 6000 meter) of the Cayman Trench in The Caribbean Sea.

10. July 11 – 27, 1976. Project leader (UNCW) with Dr. John Staiger, REMAS, University of Miami aboard *R/V GILLISS* to explore the hadal (Ultraabyssal) depths of the only North Atlantic Trench –Puerto Rico trench (6000 to 10500 m). Discovered the new species *Vanhoffenella torbeni* n. sp. and caught the deepest known fish in the North Atlantic Ocean. (NSF Project on deep-sea biology))

10. July 5 – July 30, 1977. Revisited Puerto Rico Trench (now Pharmaceutical Dump Site) aboard *R/V GILLISS* of the University of Miami to study Barophylic bacteria (Dr. Jody Demming's Ph. D. work from Dr. Rita Colwell's Lab. in the University of Maryland), and to study meiofauna, macrofauna and megafauna (in collaboration with Dr. Robert Higgins of the Smithsonian Institution).

11. July 4 – 18, 1978. Co-chief

scientist with Dr. Kilo Park of NOAA aboard *R/V Mount Mitchell* in the Puerto Rico Trench to study the impact of pharmaceutical dumping in the surface water on hadal fauna on the floor of the trench. (This study eventually led to US Congress's decision to close the dumping of pharmaceutical wastes from Pfizer's plant in Arecibo, Puerto Rico



R/V Mount Mitchell/ NOAA ship.

12. Jan. – Feb., 1979 (2 months). Co-chief scientist with Dr. Enrico Marshoff of Argentina Antarctic Research Institute in Buenos Aires, Argentina aboard *R/V Islas Orcadas* (formerly U. S. N. S. ELTANIN) in the Scotia and Bellinghaussen Seas in the Southern Ocean to study Antarctic Krill populations inside the Antarctic Convergence. Cruise covered several subantarctic islands (South Georgia, South Sandwich, South Orkneys etc.)

13. Summers of 1978 to 1982, 5 one week cruises with Wilmington, N.C.Cape Fear Technical Institute's Research Ship *R/V Advance II* to study the deep-sea off North Carolina Coast. Project with ONR

and NSF funding to Prof. George at UNCW.

14. July 1982. Black Sea Expedition to study periozoic zone at the edge of the continental shelf.



Black Sea Expedition  
(Oliver, Gomoiu and George)

15. 1988 – 1994 summers. Co-chief scientist with Prof. Jarl-Ove Stromberg of the Kristineberg Marine Station in Sweden aboard *R/V Arne Tiselius* to study the Arctic Krill in the Gullmar Fjord in Sweden.

16. June 10-23, 1992. *R/V Cape Hatteras* cruise to the Charleston Bum where we discovered “upwelling” between Gulf Stream axis and the western eddy.

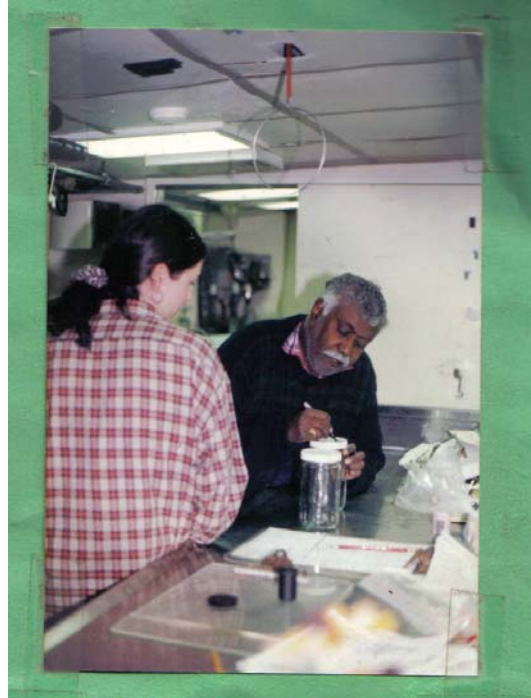


Research Team aboard *Cape Hatteras*

17 July 5 – 19, 1994. Georges Bank Expedition *R/V ALBATROSS IV* for scallop survey and fisheries stock assessment.

2007 is the 2<sup>nd</sup> centennial celebration of NOAA which really started when Thomas Jefferson commissioned ALBATROSS I in 1807 as the Research for the Coast and Geodetic Survey.

Photo below shows one of many lobsters captured in the trawl from Georges Bank. Almost every day we had lobster dinner. Also, this cruise discovered that “Closed area exhibited higher fish-biomass.”



I took undergraduate students from UNCW to train them aboard ALBATROSS. Photo above shows Sabrina Varnum helping me in copepod abundance areas where right whales

were seen (feeding on *Calanous finmarchicus*). Sabrina was so inspired that she now works for North Carolina Fisheries Lab. in Morehead City.

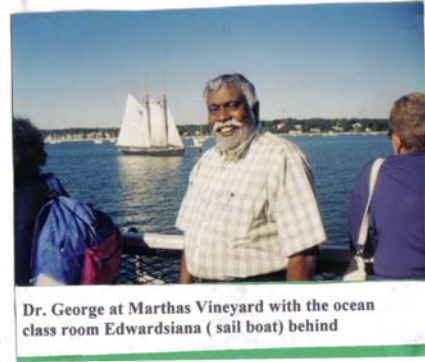
18 July 2000. Leader, GIBS Expedition to Maldives Atolls with 3 UNCW students to study coral reef recovery after 1998-99 El Nino impacts.

19. August 2000. Leader, Fulbright Expedition to Ganges River in India to study influence of Hindu Festival 'Kumbha Mela' on the ecological health of the River and its fauna (including the Ganges freshwater dolphins).



20. 2001-2002 Summers. Co-chief Scientist aboard *R/V Lophelia* with Dr. Tomas Lundalv, Head of the 'Tjaerno Center for Underwater Documentation' in the Gotenburg University in Sweden to study deep-sea coral *Lophelia* reefs in the west Coast of Sweden and east coast of Norway (off Oslo).

21. Summer, 2004. Research Scientist in the Pudget Sound of Washington coast, serving as Whitely Professor at the Friday Harbor Laboratories.



## PROFESSIONAL PRESENTATIONS

1. JAPAN: Sept. 13 – 25, 1970. Joint Oceanography Assembly. Tokyo. Paper on "Hadal Life at extreme depths of the Ocean". Went under US Navy (ONR) sponsorship.
2. CANADA: May 18 – 24, 1974. SCOR (Scientific Committee of Oceanic Research) – Held in Montreal- POLAR OCEAS International conference. Paper on Contrast between Arctic and Antarctic Marine Benthos, Went under NSF sponsorship.
3. WASHINGTON DC. USA: August 15 – 17, 1974. National Academy of Sciences Conference on Antarctic Marine Ecology. Paper given on 'Adaptive physiology of Antarctic marine crustacea". Travel sponsored by Office of Polar Programs, NSF.
4. HOUSTON, TEXAS: Environmental Protection Agency Conference on May 20-22, 1975. Paper on "Impact of oil drilling on marine benthos".

- Travel supported by the Gulf Universities Research Consortium (GURC).
5. STOCKHOLM, SWEDEN: Wallenberg Foundation International Symposium on “Deep-Sea Ecology: Human Exploitations”. Aug. 12 –15, 1977. Presented paper on Pharmaceutical dumps in the Puerto Rico Trench: Description of the Hadal Community. Travel supported under my tenure as Wallenberg fellow.
  6. KRISTINEBERG, Royal Academy of Sciences of Sweden. Centenary symposium on deep-ocean biology. Paper on adaptations of deep-sea amphipods. Aug. 16 – 19, 1977. Travel supported by Swedish Royal Academy.
  7. HAMBURG, GERMANY: Third International Symposium on Meiofauna. August 22 - 24 Paper on meiofauna community at the hadal depths of the Puerto Rico Trench..
  8. WOODS HOLE OCEANOGRAPHIC INSTITUTION (WHOI), Nov. 8, 1977. Invited Seminar. Invited by Dr. Howard Sanders. Seminar on “Benthic Ecology of the Blake Plateau: Hard-bottom reefs”
  9. WASHINGTON DC: International Ocean Instrumentation Workshop, National Academy of Sciences. May 2-5, 1978. Sponsored by the Engineering Committee of Ocean Research (ECOR). Paper given on ‘Biological Implications of Deep-Ocean Dumping of Nuclear and Organic human wasters’. (Invited participant).
  10. DUKE UNIVERSITY MARINE LAB. (DUML), Beaufort, North Carolina. October 20 –22, 1978. US\_USSR Joint symposium on “Evolution of Crustacea in cold and temperate waters of the world oceans”. Invited by Prof. John Coslow and Dr. Tom Bowman (Smithsonian). Paper on metabolic and behavioral adaptations of deep-sea and polar crustaceans”.
  11. SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, California. Invited By Prof. Bob Hessler. Dec. 8, 1979. Seminar on “Adaptive Strategies of eucarid vs peracaid crustaceans”
  12. MADRAS, INDIA: University of Madras –Zoological Research Laboratory -Prof. C. P. Gnanamuthu memorial seminar in physiological ecology. July 28, 1979.
  13. RUSSIA- KHABAROVSK – PACIFIC SCIENCE CONGRESS. Aug. 29, 1979. Invited talk on “Origin and evolution of deep-ocean Isopod Crustacea”.
  14. AUSTRALIA-SYDNEY. International symposium on evolution of crustacea. May 19 – 25, 1980. Paper given on “Antarctica as a Center of Origin

- for deep-sea isopod genus *Storhyngura*".
15. LONDON, UK. International Conference on biofouling problems in offshore structures. May 20-22, 1981. Paper on biomass of fouling growth as a function of depth in oil platform legs in the Gulf of Mexico". Travel sponsored by the Royal Society of London.
  16. BOSTON. MASSACHUSETTS: OCEANS 81 Conference. Sept. 16 –18, 1981. "Engineering parameters for designing oil platform structure in relation drag caused by fouling growth"
  17. PUNTA ARENAS, CHILE – Feb. 10-12, 1982. Conference on Biogeography of marine animals in Tiera del Fuga and Charles Darwin's Beagle Channel.
  18. SAN DIEGO, California. Antarctic Krill CORE Group meeting at he University of San Diego. June 5-7, 1982.
  19. ROMANIA – BUCHAREST. Invited by Academician Mihai Bacescu to the Antipa Museum to deliver a series of 3 invited talks on "Evolution of deep-sea fauna" July 4-10, 1982.
  - 20 WILMINGTON - North Carolina. Organized the FIRST INTERNATIONAL ANTARCTIC KRILL SYMPOSIUM at UNCW with funds from NSF. October 16 –20, 1982.
  21. GERMANY-BREMERHAVEN. Session chairman and invited keynote speaker, International Krill workshop organized by Prof. Gothilf Hempel. May 16-23, 1983.
  22. SOUTH AFRICA - WILDERNESS Fourth Antarctic Biology Symposium Sept. 16- 20, 1983. Paper presented on "Krill Metabolism and its trophodynamic implications in the Antarctic Marine Ecosystems". Travel sponsored by the US National Science Foundation.
  23. PHILEDELPHIA: "Biogeography of Crustacea" symposium at the Philadelphia Academy of Sciences, Dec. 27 –28, 1983. Paper presented on "Patterns of Speciation of deep-sea isopod crustacea"
  24. MINNEAPOLIS< MINESOTA. Chronobiology Conference- Aging in Animals.Dec. 29-30, 1983.
  25. PLYMOUTH- ENGLAND,UK. 19<sup>th</sup> European Marine Biology Symposium, Sept. 16 –21, 1984. Paper on Basal Metabolism in deep-sea animals".
  26. MADURAI, INDIA, Keynote address at the annual meeting of the Indian Academy of Sciences, October 10, 1984. Title of talk: "Antarctica: History and Science".
  27. MADRAS, INDIA. Madras Christian College, Tambaram, Tamil Nadu. Prof. George Phanual Endowment Lectures, Oct. 17 –19, 1984.



28. PORTONOVA, INDIA. Invited Seminar at the Advanced Center of Marine Biology, Annamalai University, Oct. 31, 1984. (While my seminar was in progress, an announcement was made to the audience that India's Prime Minister Indira Gandhi was assassinated).
29. KOTHAMANGALAM, KERALA, India. Inaugural Address on the day of Inauguration of the Albert Schweitzer Institute for Prayer. Topic of talk: "Ethics in Ancient, Medieval and Present Time" Nov. 21, 1984.
30. TRIVANDRUM, Kerala University, India. Invited seminar at the School of Marine Sciences: "Antarctic Krill: Its role in the Marine Ecosystem".
31. GOA, India. Guest of Dr. Quasim, Director of National Institute of Oceanography. Seminar on "Antarctic Marine Ecosystem" (This talk was presented on Dec. 2, 1984, the day before the 4<sup>th</sup> Indian Expedition to Antarctica took place and all members of the Antarctic expedition were in the audience)
32. WILMINGTON- NORTH CAROLINA. UNCW- Guest lecture at the Cameron School of Business, March, 27, 1985. Topic of talk "Antarctica in Ecological and Economic Perspectives".
33. HILTON HEAD ISLAND, South Carolina. Fulbright Symposium on "International Education". Invited participant. Sponsored by Fulbright Association. March 22-25, 1985.
34. HAMBURG, GERMANY. Deep-Sea Biology Symposium at the Katholische Academy. June 23-29, 1985, "Human Abuses in the Deep-Sea Environment".
35. CHAPEL HILL, North Carolina. Invited by Prof, Dirk Frankenberg to address the UNC-Chapel Hill Marine Science faculty and graduate students. Topic: North Carolina Coast and Deep-Ocean: Ecology And Conservation", April 15, 1986.
36. SWEDEN, Kristineberg Marine Station. Invited seminar: "Arctic Krill", June 10, 1986.
37. WASHINGTON DC, SMITHSONIAN INSTITUTION National Museum of Natural History, Invited by Dr. Raymond Manning. Invited Seminar on "Deep-Sea Crustacea". July 7, 1986.
38. NASHVILLE, TENNESSE American Society of Zoologists. Paper on "Giant Crabs: Lithodid and Red crabs", Dec. 26-28, '87
39. BARUCH INSTITUTE, University of South Carolina. Invited seminar: 'Antarctic krill: Is it a source for Omega-3 fatty acids', Dec. 27, '87.
40. RALEIGH, North Carolina,

- 1987 Benthic Ecology Conference. March 7, 1987. North Carolina State University- Jane McKimmon Center."Deep-Sea Corals as Habitat for fishes"
41. GREENSBORO- University of Greensboro in North Carolina. Invited seminar: "Pressure adaptation of bathyal vs abyssal animals"
  42. FIRST NORTH CAROLINA COASTAL OCEANOGRAPHY SYMPOSIUM. Organizer with 40 speakers at UNCW. Oct. 1-3, 1987.
  43. DAVIDSON COLLEGE, Davidson, North Carolina. Invited Seminar on Dec. 17, 1987. Dean Rusk Program – Topic: "Polar Science".
  44. NEW ORLEANS Louisiana. -Annual meeting of American Society of Zoology: Paper on American eel larva *Leptocephalus*: Ultrastructure of the gut. Dec. 27, 1987
- No seminars given outside UNCW except lectures in classrooms until retirement in 2001.
45. International Council for the Exploration (ICES) –Annual Science Conference in Vigo, Spain. Paper on "*Lophelia* Bioherms and Lithoherms as Fish-Habitats on the Blake Plateau: Biodiversity and Sustainability" Sept. 22- 25, 2004.
  46. 14<sup>th</sup> International Conference on Unmanned Untethered Submersible Technology (UUST 04), Durham, New Hampshire, Aug. 21 –23, 2005. Paper on " Multifaceted Sampling Strategy for EMFM-Modeling: How can 'AUV' help?".
  - 46 International Council for the Explorations of the Seas (ICES) -Annual Science Conference 2005. Aberdeen, Scotland. Paper on: "Ecosystem-Based Fisheries Management for *Lophelia* Reef HAPC at the northern-most 'Agassiz Coral Hills' of the Bathyal Depths off Cape Lookout, North Carolina", September 20-24, 2005.
  47. 3rd International Symposium in Miami Nov. 28-Dec1, 2001. Served as co-organizer with NOAA and Paper on "Conceptual Models on Food-chain in *Oculina* reef of Florida, Corner Rise Seamount and Aleutian Coral Gardens".
  48. 2nd North Carolina Coast and Ocean Symposium, Nov. 28- Dec.1, 2006. Served as co-organizer and Paper on: "Impact of global warming and ocean acidification on deep-sea coral reefs"
  49. Mexico City, Mexico – UNESCO Scientific Expert Workshop on Biogeographic Classification Systems in Open Ocean and Deep-Sea Areas Beyond National Jurisdiction. Jan. 22-24, 2007. Invited

participant: Presentation on  
“FUTURE: Conservation of  
Biodiversity in the Seamount  
Ecosystems as Highseas MPAs”

50. Fulbright Academy of Science  
and Technology. Panama City,  
Panama: Organizer of the  
“International Marine  
Conservation: Expert  
Workshop. Presentation on  
“Seamounts and Deep-Sea  
Coral Reefs: Science and  
Management, with focus on  
pros and cons of deep-sea  
fisheries.

51. 2<sup>nd</sup> Global Large Marine  
Ecosystems (LMEs)  
Conference, Qingdao, China,  
Sept. 11-14, 2007. Paper on:  
“Gulf of Mexico LME”.



#### 2008 CONFERENCES (invited)

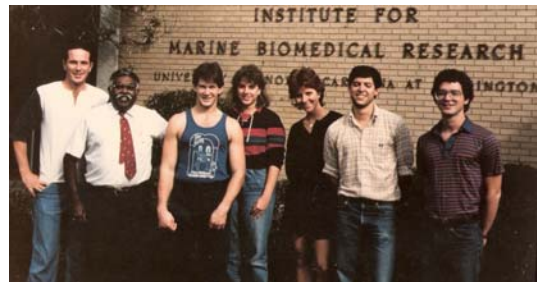
1. Copenhagen, Denmark:  
Planning meeting for the 2009  
ICES Symposium on Deep-  
Ocean Economics and Fisheries.  
March 5-7, 2008.
2. Barcelona, Spain: IUCN 2008  
annual conference on Marine  
Conservation Issues. October.
3. Wellington, New Zealand:  
4<sup>th</sup> International Deep-Sea Coral  
Symposium. Dec. 1-5, 2008.

## TEACHING EXPERIENCE



## COURSES TAUGHT AT UNCW 1978-2003(46 semesters)

1. Biological Oceanography -  
Graduate level (10 semesters)



Small class size (enjoyed it)

2. Deep-Sea Biology –Cross-listed  
for graduate and undergraduate  
students (22 semesters)



3. Marine Biology –Non-majors Undergraduate Popular Course (20 semesters)



Largest class size (100 students)



Large class (120 students)

4. “Seminar at Sea”-Graduate course taught in summers under study-abroad Sweden aboard *R/V Arne Tiselius* (7 summers) and in the Gulf Stream offshore North Carolina (6 semesters)



Gulf Stream Course



Sweden Course

- 5 “Science and Society” – Honors Course (3 semesters)-15 students Unique class with mixture of Humanity and science students
- 6 BIO-105 BIOLOGY for non-Majors (av. Class size 140 students – 20 semesters)



Class of 1990 in front of Library



Largest Class I ever taught

7 Marine Pollution (BIO-495) 3 semesters



This course is a seminar class. Each student chose a topic and gave a talk at the end of the semester.

8. Polar Marine Biology (BIO-495)

4 semesters



SEMINAR COUSE

**Ph. D. Students at Florida State University (whom I guided in their research) Inspired and guided.)**

- a. Allen Paul – High Arctic Ecology (Spent 1 month with me on Ice-island T-3 floating above North Pole)
2. Doug Farrell – who worked with me on oil platforms in the Gulf of Mexcio.

3. S. Kumar – He was on *Alaminos* cruise with me to Cayman Trench and did his doctorate thesis on DWD dumpsite 105, which I studies under Navy contract.

4. Bob Avent – Worked with me on pressure effect on fish and invertebrates and published 2 papers with me.

5. Tom Ahlfeld – Worked on breeding cycles in deep-sea animals. Tom now works with MMS and recently was a coauthor of paper I presented in Qingdao, China during the “2<sup>nd</sup> Global Large Marine Ecosystems conference”.

6. Jim Marum- Jim was on many cruises with me and published a paper on zooplankton adaptation to hydrostatic pressure.

M. S. Thesis done under my supervision at FSU.

1. Philip Thomas – “Fouling on Oil Platforms in the “Gulf of Mexico”
2. Ron Horlick – “Hurricane impact on beach sand *Donax* Communities”

**MS Thesis done under my supervision at UNCW, Wilmington. N.C,**

1. Dane Herring – “Vertical migration of copepod species in the Puerto Rico Trench” 1978
- 2 Ellen Smoller –American eel

- Anguilla rostrata*: metabolism and salinity preference” 1987
- 3 Margaret Amsler –1984, Thermal impact on Blue crab *Callinectes sapidus* embryology.
  4. Randy Lennon – 1987. Circatidal rhythms in the intertidal blennid fish from Wrightsville Beach, N. C.
- Committee Member M. S. thesis at UNCW and UNC-Charlotte**
1. Craig, Tronso – 1987. Demersal Zooplankton in North Carolina Continental shelf
  2. Ginger Ogborn- 1984- Shelf reef fishes.
  3. J. Edward Smith – 1981. Microbial film formation under hydrostatic pressure. (UNC-C)
- Ph. D. Examiner, Universities in India**
1. Vaji Subramaniam – University of Madras – “Fouling Community Dynamics in Madras Harbor”- 1981 Ph.D.
  2. S. Sambasivam – Annamalai University – “Coastal Aquaculture of prawns *Penaeus indicus*. \_ Ph. D. 1982
  - 3 R. Kanakasabai – Annamalai University- “Estuarine mollusks in the Vellar estuary complex in the Southeast India”. Ph. D. 1985.
  4. S. K. Valli – Madurai Kamaraj University – “Zeitgeber interaction and circadian system in the squirrel *Funambulus palmarum*. Ph. D. 1986.
  5. R. Philomine Aruna –Madurai Kamaraj University – “Biology of the Viperine snakes *Echis carinatus*”. Ph. D. 1986.
  6. S. Shanmugam – Annamalai University – Finfish and shellfish seed resources in the Vellar estuary in southeast India – Ph. D. 1986.
  7. J. T. Jothinayagam – University of Madras – Studies on Cephalopoda of the Madras coast. Ph. D. 1987.
  8. A. C. Anil – “Stufies on marine fouling in the Zuari estuary -Goa)- West coast of India, National Institute of Oceanography –NIO-Goa/Karnataka University. Ph. D. 1987.
  - 9 S. Dravidamani – Experimental brain cancer in albino rats *Rattus norvegicus*. -Presidency College, Madras. Ph. D.
  10. S. David Raj – Anatomy of the Rhynchocephalid leech *Batrachobdella reticulata*. Madurai Kamaraj Univesity. Ph. D. 1987.
  11. Saraswathy Michael – Madras University – Reproductive and Nutritional cycles in the Bagrid catfish *Mystus guilio* Hamieton) of the Kovalam Backwaters. Ph. D. 1988.
  12. V. Sampath –Annamalai

University- Studies on the eel-catfish *Plotosus* Lacepede 1803 from Porto Novo waters. Ph. D. 1988.

13. S. Krishnan – Zoological Survey of India, Madras. Biology of Fiddler Crabs in Adayar Estuary, Madras. Ph. D. 1988.
14. A. Rama Swamy – Annamalai University – Effects of environmental factors on seven species of prawns – Ph. D. 1988.
15. R. Mohan Das – Annamalai University – Reproduction and larval development of pistol shrimp *Alpheus malaboricus*. Ph. D. 1988.
16. N. Chidambaram – Madras University – Bioindicators of pollution in the Madras Coast. Ph. D. 1989.

**SUPERVISION OF  
UNDERGRADUATE DIRECTED  
INDIVIDUAL STUDIES (DIS) AT  
UNCW**

**“ I felt strongly about the fact that undergraduate students, despite their heavy course loads, must develop time with Professor in his or her research laboratory. At UNCW, I always encouraged students to work in my lab/ and go to sea with me on research cruises. Many of these students have gone to other universities for graduate studies and obtained Ph.D.s and also got jobs in their fields. When I see these young scientists in professional conferences, I am delighted and I tell them so”.**

**Bob George.**

1. 1974 – 1975. Charles Steele – Fouling Community in Banks Channel, Wrightsville Beach, North Carolina.
2. 1975 – ’76. Stephen Lilyquist – Metabolism and Calorific Content of deep-sea fish muscle.
3. 1976 – ’77. Diane Nesbitt – Reproductive cycle in deep-sea hermit crab *Parapagurus pilosimanus*.
4. 1976-’77. Joseph Wilson – Culturing and acclimation of deep-sea crustaceans.
5. 1976 – ’77. Randy Lennon.- Fouling and Boring Organisms in Banks Channel, Wrightsville Beach.
6. 1976 – ’77. Lance Farrell. Zooplankton in the Gulf Stream off North Carolina coast.
7. 1977-’78. Ellen Smoller. Metabolism of American eel *Anguilla rostratata*.
8. 1977-’78. Linda Eades. Respiratory adaptations of deep-sea vs shallow pagurid crabs.
9. 1978 – 79. Marisa Beddingfield. Wood-boring Isopod crustacean *Limnoria lignorum* from North Carolina coast.
10. 1979 – ’80. Elizabeth Avant – Vertical distribution of the Antarctic Krill larval stages in the Scotia Sea.

11. 1980-'81. \*Noel Hinton – Deep-Sea isopod crustacea from Antarctica.
  - Honors. In this project, Noel discovered a new species which we both described as *Storthingura myriami* n. sp, George and Hinton, 1982, named so in honor of the renowned French deep-sea biologist Dr. Myriam Sibuet of IFREMER, Normandy, France.
12. 1981-82. \*James Fields. Pressure acclimation of crustaceans in hyperbaric chambers.
 

\*James was chosen as my research assistant and went to Antarctica twice and became co-author of 2 peer-reviewed papers with me on the physiology of Antarctic Krill *Euphausia superba*. James later was chose by NSF to be la. Leader in the US Antarctic Program in McMurdo and Palmer Stations.
13. 1982 – '83. Raymond Caraway. Salinity preference of the blue crab *Callinectes sapidus* in a lab. experimental tube of salinity gradient.
14. 1983 – '84. Sankey L. Blanton. Physiological responses of blue crab *Callinectes sapidus* to hypoxia acclimation.
15. 1984 – '85. Tara Sams. Tidal rhythms in the mole crab *Emerita talpoida*.
16. 1985- 86. \*Todd Radenbaugh. Tidal rhythms in swimming activities and respiration of the killifish *Fundulus heteroclitus*.
 

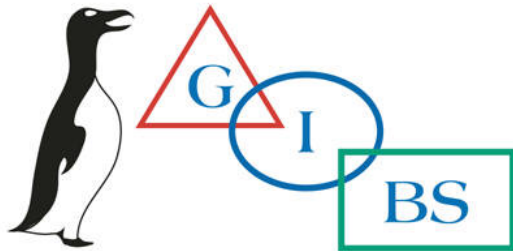
\* Todd later received his Ph.D.
- 17, 1985 – '86. Nate Haskel. Responses of copepod crustaceans to different compression rates.
- 18 1985 – '86. Stephanie Ann Spence. Salinity preferences in 3 species (pink, brown and white) of Panaeid shrimps from Southport Estuary.
- 19 1985 –'86. Angela Kiesel. Light intensity preferences in the killifish *Fundulus heteroclitus*.
- 20 1985 –'86. Nick H. Maraveyias. Marine Life in the Black Sea: Hypoxia Adaptations.
21. 1986- '87. Todd Radenbaugh. Computer-based study to document the circatidal rhythms in the killifish *Fundulus*.
- 22 1987- '88. Lawrence Pilon. Temperature acclimation of Intertidal fish blennies.





### PROFESSOR

At UNCW, I was appointed as Associate Professor and also Research Oceanographer in 1973. In 1976 I was given “Tenure” and in 1979 I was promoted to the rank of Full Professor. In 2001, I received phased retirement from UNC system and in 2003 I received full retirement.



George Institute for Biodiversity and Sustainability (GIBS) was founded upon my phased retirement in 2001.  
Visit: [www.GIBSconservation.org](http://www.GIBSconservation.org)

### FAMILY



With my wife Chandra Mercy George in front of Taj Mahal in India (1988)



Prof. Robert George, UNCW Chancellor William Wagoner and Sir George Deacon (Founder of British National Institute of Oceanography, now Southampton Sir George Deacon Center) –Photo 1982.



Bob George aboard HMS WARRIOR in Portsmouth, UK, addressing 300 deep-sea biologists on 12 July, 2006 during “Deacon Medal Award Ceremony”.

