

Caryn Self-Sullivan
Curriculum Vitae 2008
(Long Version)

Contact Information



BELIZE Field Station

Hugh Parkey Foundation
P.O. Box 1818
Belize City, Belize,
(++501) 223.2333 or 220.4024
Email: caryn@hpfoundation.org

USA Home Office

Sirenian International, Inc.
200 Stonewall Drive
Fredericksburg, VA 22401-2110
(+1) 540.287.8207 (voice);
540.242.9196 (fax)
Email: caryn@sirenian.org

Education

Texas A&M University, College Station, Department of Wildlife and Fisheries Sciences
Ph. D. Candidate, GPA 3.86/4.00: *I will graduate in May 2008. My areas of focus include Marine Conservation, Marine Policy, Ethology, Bioacoustics, and Ecology (with a research focus on marine mammal conservation) under the guidance of co-chairs, William E. Evans and Jane M. Packard, and committee members, Wyndylyn von Zharen and William E. Grant.*

Pennsylvania State University, Graduate Program in Acoustics
Non-degree seeking student (2000) GPA N/A: *I passed courses in Shallow Water Acoustics and Digital Signal Processing, which were not available at Texas A&M.*

Coastal Carolina University, Conway, Department of Marine Science
B. S. (1997) GPA 3.9/4.0: *I also received minors in Mathematics and Biology under the guidance of my advisors, Susan M. Libes and Robert F. Young. During my tenure at CCU, I worked for most faculty members, gaining lab and field experience in marine geology, chemistry, biology, and physical oceanography.*

Deakin University, Gelong, Victoria, Australia.
Exchange Student (1996) GPA N/A: *I passed courses in Ecology, Computer Programming, Linear Algebra, and Aboriginal Arts; during breaks I volunteered on a humpback whale research project.*

Professional Positions

- 1998-Present: Principal Investigator, Ecology and Behavior of Antillean Manatees and Bottlenose Dolphins in the Drowned Cayes Area, Belize (funded by the Earthwatch Institute and other small grants)
- 2005-Present: Principal Advisor, Community Conservation of West African Manatees in Volta Lake, Ghana (funded by the Earthwatch Institute and other small grants)
- 2004-2007: Director of Marine Research and Science Advisor, Spanish Bay Conservation & Research Center and the Hugh Parkey Foundation for Marine Awareness and Education, Belize (funded by the Hugh Parkey Foundation and other small grants)
- 1999-Present: Co-Founder and President, Sirenian International, Inc., an international network with 400 participating members (sirenian professionals) in over 39 countries; (volunteer position, organization funded by public donations)
- 2005-Present: Member, IUCN Species Survival Commission Sirenia Specialist Group (volunteer position)
- 2004-Present: Member, Belize National Manatee Working Group (volunteer position)
- 2004-Present: Member, Belize Marine Mammal Stranding Network (volunteer position)

Peer Reviewed Publications and Presentations

- Bacchus, M-L, S. G. Dunbar, C. Self-Sullivan. manuscript in progress. Characterization of resting holes and their use by the Antillean manatee (*Trichechus manatus manatus*) in the Drowned Cayes of Belize. Expected publication in Aquatic Mammals in 2008.
- Bonde, R. K., P. Lewis, D. A. Samuelson, C. Self-Sullivan, N. E. Auil, and J. A. Powell. 2006. Belize manatee (*Trichechus manatus manatus*) epibionts SEM viewing techniques. Poster Presentation at SMM 16th Biennial Conference on the Biology of Marine Mammals, San Diego, 12-16 December 2005.
- Deutsch, C. J., C. Self-Sullivan, and A. A. Mignucci-Giannoni. 2007. *Trichechus manatus*. In: 2007 IUCN Red List of Threatened Species (www.iucnredlist.org).
- LaCommare, K. S., Sullivan, C. S., Brault, S. 2001. Distribution and Foraging Ecology of Antillean Manatees (*Trichechus manatus*) in the Drowned Cays Area of Belize, Central America. Poster Presentation at the SMM 14th Biennial Conference on the Biology of Marine Mammals, Vancouver, British Columbia, 28 November - 3 December 2001.
- LaCommare, K. S., C. Self-Sullivan, and S. Brault. 2005. Distribution, habitat use and seasonal occurrence of Antillean manatees in the Drowned Cayes area of Belize, Central America. Oral Presentation at the SMM 16th Biennial Conference on the Biology of Marine Mammals, San Diego, 12-16 December 2005.
- LaCommare, K. S., C. Self-Sullivan, S. Brault. 2008. Distribution and Habitat Use of Antillean Manatees (*Trichechus manatus manatus*) in the Drowned Cays Area of Belize, Central America. Aquatic Mammals 34(1):000-000.
- Mignucci-Giannoni, A. A., and C. Self-Sullivan. (in progress). Conservation Status of the Antillean Manatee (*Trichechus manatus manatus*) in the Wider Caribbean Region. Book Chapter in Sirenian Conservation, Edited by Ellen Hines, Ph.D.
- Self-Sullivan, C. (in progress). The Role of Law in Sirenian Conservation. Book Chapter in Sirenian Conservation, Edited by Ellen Hines, Ph.D.
- Self-Sullivan, C. 2008 (in final review). Conservation of Antillean Manatees in the Drowned Cayes Areas of Belize. Ph.D. Dissertation, Department of Wildlife and Fisheries Sciences, Texas A&M University
- Self-Sullivan, C. 2006. Non-lethal boat scars on manatees in Belize as a tool for evaluation of a Marine Protected Area. Oral Presentation at the 59th Annual Gulf and Caribbean Fisheries Institute Conference, Belize City, 6-11 November 2006 (Science and Management of Marine Protected Areas Session).
- Self-Sullivan, C. and A. A. Mignucci-Giannoni. 2005. Conservation Status of the Antillean Manatee (*Trichechus manatus manatus*) in the Wider Caribbean Region. Oral Presentation at the International Sirenian Workshop, SMM 16th Biennial Conference on the Biology of Marine Mammals, San Diego, 12-16 December 2005.
- Self-Sullivan, C. LaCommare, K.S. 2003. One Issue Related to Research and Conservation: Cruise Ship Tourism in Belize. Oral Presentation at the International Sirenian Workshop, SMM 15th Biennial Conference on the Biology of Marine Mammals, Greensboro, North Carolina, 14 December 2003.
- Self-Sullivan, C., and A. A. Mignucci-Giannoni. 2006. Conservation Status of the Antillean Manatee (*Trichechus manatus manatus*) in the Wider Caribbean Region. Oral Presentation at IMC9, Sapporo, Japan, 31 July 2005.
- Self-Sullivan, C., M. Fogel, and M. J. Wooller. 2005. Carbon and nitrogen stable isotope analyses of Antillean manatees from three distinct ecosystems in Belize: inference about relative differences in diets and habitats. Preliminary Report to Wildlife Trust Belize, 30 October 2005. Manuscript in process.
- Self-Sullivan, C., Smith, G. W., Packard, J. M., and LaCommare, K. S. 2003. Seasonal occurrence of male Antillean manatees (*Trichechus manatus manatus*) on the Belize Barrier Reef. Aquatic Mammals 29(3):342-354. PDF re-prints available from caryn@sirenian.org.
- Sullivan, C. S., LaCommare, K. S., Packard, J. M., and Evans, W. E. 2001. Seasonal Occurrence of Male Antillean Manatees (*Trichechus manatus manatus*) on the Belize Barrier Reef and the Effect of Scale on Seasonal Distribution Studies. Poster Presentation at the SMM 14th Biennial Conference on the Biology of Marine Mammals, Vancouver, British Columbia, 28 November - 3 December 2001.
- Sullivan, C. S., Packard, J. M., and Evans, W. E. 1999. Spring distribution and behavior of Antillean manatees in the Drowned Cayes, Belize. Poster Presentation at the SMM 13th Biennial Conference on the Biology of Marine Mammals, Maui, Hawaii, November 28 - December 3, 1999.
- Williams, Jr., E. H., Mignucci-Giannoni, A. A., Bunkley-Williams, L., Bonde, R. K., Self-Sullivan, C., Preen, A., and Cockcroft, V. G. 2003. Echeneid-sirenian associations, with information on sharksucker diet. Journal of Fish Biology 63:1176-1183. PDF re-prints available from caryn@sirenian.org.

Achievements, Awards, Honors

- 2003 Earthwatch Young Scientist Award
- 1998-2001 NSF Graduate Fellowship
- 1997 Outstanding Marine Science Graduating Senior
- 1997 President's Academic Excellence Nominee
- 1996 Exchange student to Deakin University, Australia

- 1995 NSF-REU Fellowship
- 1994-1997 Nelson Scholarship
- 1993 Freshman Essay Contest
- 1993-1997 President's Honor List
- 1993-1997 Dean's Honor List
- Sigma Zeta Beta Mu Honor Society
- Omicron Delta Kappa Society
- Pi Mu Epsilon Honor Society

Grants and Fellowships

- Earthwatch Institute, Center for Research 2001-2007. Amount funded: \$24,000 - \$48,000/year (funds for research expenses dependent on volunteer participation - no salary).
- Project AWARE Small Grant Program 2004. Amount Funded \$1000
- Earthwatch Institute, Center for Research 2003 Young Scientist Award. Amount funded \$2500.
- Conservation Action Fund, New England Aquarium 2001. Amount funded: \$5,000.
- American Museum of Natural History: Lerner-Grey Fund for Marine Research 2000. Amount funded: \$2,000.
- Oceanic Society 1998-1999. Amount funded: undisclosed - funded 9 months of field research in Belize.
- National Science Foundation Graduate Fellowship 1998-2001. Amount funded: \$75,000 (tuition and stipend only – no research funds).

Other Service Projects

- Advise field scientists from Guatemala, Ghana, and Dominican Republic regarding techniques for evaluating manatee populations in remote areas
- Encourage and mentor young people (especially women) entering the marine science field (2 MS Students and 30 Field Interns)
- Coordinator and Instructor, Marine Science for Primary and Secondary Teachers Workshop, Belize City, Belize 2005-2006
- Coordinator, National Marine Science Symposium, Belize City, Belize 2006
- Committee Member, Society for Marine Mammalogy Conference Committee, 2003

Educational Outreach Publications and Presentation

- Self-Sullivan, Caryn, and A. Sullivan. 2004-2007. Earth Day Exhibit at Alum Spring Park, Fredericksburg, VA. Role: designed, coordinated, and delivered educational outreach exhibition.
- Self-Sullivan, Caryn. 2005-2007. Marine Science Workshop for Primary and Secondary Teachers, Belize City, Belize. Role: designed, coordinated, and assisted with delivery of four 3-day semi-annual workshops to teach teachers how to incorporate marine science in the classroom.
- Self-Sullivan, C. and A. L. Bird. (in press). Marine Science for Primary and Secondary Students in Belize. Special Publication of the Hugh Parkey Foundation for Marine Awareness and Education, Belize City, Belize.
- Self-Sullivan, C. and K.S. LaCommare. 2000-2007. Earthwatch PI Annual Conferences. 4 Poster and 1 Oral Presentation.
- Self-Sullivan, C. 2004. Manatee and mangrove special topics in the 6th and 7th editions of Moon Handbooks Belize by Joshua Berman and Chicki Mallan, Avalon Travel Publishing, Emeryville, CA.
- Self-Sullivan, C. 2004. Manatees in Belize. Destination Belize Magazine, a special publication of the Belize Tourism Board.
- Self-Sullivan, Caryn. 2000-2004. Editor, Sirenian Song Quarterly Newsletter.
- Self-Sullivan, Caryn. 1999-2007. Editor and Designer, Sirenian International Webpages and Sirenian Voice Newsletters.
- Self-Sullivan, Caryn. 2002, 2004. Update on Manatees in Belize. Oral Presentations to the Battlefield Sierra Club, Fredericksburg, VA.
- Self-Sullivan, Caryn. 2003. Manatee Presentation to the New England Aquarium Staff, Boston, 4 November 2003.
- Self-Sullivan, Caryn. 2003. Belize: Manatee Research in Belize. Oral Presentation. Botany Class, Mary Washington College, Fredericksburg, VA.
- Self-Sullivan, Caryn. 2001-2007. Manatees and Dugongs: Endangered Mermaids. Three-day public exhibit in the Educational Tent, Urbanna Oyster Festival, Urbanna, VA. 1st weekend in November.
- Self-Sullivan, Caryn. 2002. Sirenia: Research and Conservation in Belize. Oral Presentation. Ecology of Marine Mammals Class, Coastal Carolina University, Conway, SC.
- Self-Sullivan, Caryn. 2002. Manatees: Life History, Ecology, and Conservation. Oral Presentation. 6th Grade Science Team, Stafford, VA.

- Self-Sullivan, Caryn 2002 . Sirenia: Research and Conservation in Belize. Oral Presentation and Discussion. Coral Reef Ecology Field Class, University of Mississippi, South Water Caye, Belize.
- Self-Sullivan, Caryn. 2002. Manatees and Science. Oral Presentation. 6th Grade Science Team, Thornburg Middle School, Spotsylvania, VA.
- Self-Sullivan, Caryn. 2002. Manatees: One path to a career in Marine Science. Oral Presentation. Marine Science Class, Courtland High School, Spotsylvania, VA.
- Self-Sullivan, Caryn, and A. Sullivan. 2001-2005. Mermaids: Elusive and Endangered Sirens of the Sea. Three-day public exhibit in the Educational Tent, Urbanna Oyster Festival, Urbanna, VA.
- Self-Sullivan, Caryn. 2001. Ecology and Behavior of Endangered Sirenians, with a focus on research in Belize. Oral Presentation. Texas A&M Scuba Club, College Station, TX.
- Self-Sullivan, Caryn. 2000. Endangered Species: Sirenians. Oral Presentation. Bryan-College Station Sierra Club, College Station, TX.
- Self-Sullivan, Caryn, Jane M. Packard, and William E. Evans. 2000. Spring distribution and behavior of Antillean manatees in the Drowned Cayes, Belize. Oral presentation - WFSC Student Symposium, Texas A&M University, College Station, Texas, February 26, 2000.
- Self-Sullivan, Caryn. 1999. The Elusive Manatee: Understanding the Behavior of The West Indian Manatee (*Trichechus manatus*) - An Ethological Approach. Species Brief initiated for WFSC 422 Ethology Course at Texas A&M University (available online at <http://www.sirenian.org/SpeciesBrief.html>).
- Self-Sullivan, Caryn. 1999. Ecology and Behavior of the Antillean Manatee in Belize. Annual report to the Coastal Zone Institute & Authority. 8 St. Mark Street, Belize City, Belize.
- Self-Sullivan, Caryn. 1999. The Elusive Manatee: Ecology and Behavior of Antillean Manatees in the Drowned Cayes, Belize, C. A. Public poster presentation during Belize National Manatee Week 4-8 October 1999 (available online at http://www.sirenian.org/research99_1.html).
- Self-Sullivan, Caryn. 1998. Call of the Siren. A resource page for the sirenian researcher, scientist, or student, who is interested in any aspect of manatees and dugongs. This comprehensive page presents the Steller's sea cow extirpation in detail and links to sirenian research around the world, online documents such as the Florida Manatee Recovery Plan, ESA, CITES, and online bibliographies. <http://www.sirenian.org>.
- Self-Sullivan, Caryn. 1997. Proposal to Investigate Individually Distinct Vocalizations of Manatees within Mother-calf Pairs. Texas A&M University, College Station, TX: Oral presentation to field research class and to my master's committee. Written proposal submitted to NSF and funded via NSF Graduate Fellowship.
- Self-Sullivan, Caryn. 1996. The Effects of Benthos on *Acartia tonsa* Population Dynamics. National Conference on Undergraduate Research, Ashville, NC: POSTER - Results of NSF-REU Fellowship research. Oral presentation to Horn Point Environmental Lab and Coastal Carolina University. Written paper graded for Directed Undergraduate Research Credit.
- Self-Sullivan, Caryn. 1996. A Survey of Macroalgae in Discovery Bay, Jamaica: Species Diversity and Zonation Differences in the Lagoon. Senior Thesis, Coastal Carolina University, SC: Oral presentation to Discovery Bay Lab, Jamaica, written paper graded for Ecology of Coral Reefs credit.
- Self-Sullivan, Caryn. 1995. Sea Shells Alive! Life Before Collection. Myrtle Beach, SC: Oral presentation and field trips to interested public through Coastal Carolina University's outreach program. Also given as invited guest to the Grand Strand Sea Shell Club.
- Self-Sullivan, Caryn. 1995. An Introduction to Sea Turtles. Coastal Carolina University, Conway, SC: Oral presentation to intro marine science class of non-majors for Dan Able, Ph.D.
- Self-Sullivan, Caryn. 1994. Crabs, Clams, and other Tidal Marsh Inverts. 4-H Marine Science Camp, SC: Oral presentation and field trip taught for 8-15 year old campers.

Miscellaneous

Computer Program Experience

Proficient: MS Office Word, Excel, Publisher, Power Point, Outlook; HTML coding, Adobe Acrobat, Adobe Photoshop, Adobe Premiere, Endnote

Novice: Matlab, Canary, Raven, ArcView 9.2

Marine Science Related Experiences

- **The Earthwatch Institute 2000-present:** Grant proposal, project design, development, research permits, implementation, budget development, annual reports, publications, personnel hire and management, logistics management; interaction with Ministry of Natural Resources (Forestry Department, Conservation Division) and Ministry of Agriculture and Fisheries (Fisheries Department).
- **The Hugh Parkey Foundation for Marine Awareness & Education 2004-present:** Development of educational outreach programs, strategic planning, grant proposals (COMPACT & GEF),

implementation, oversight of staff, recruiting of volunteers, presentations and interaction with teachers and Ministry of Education. Development of Strategic Research Plan, recruiting of scientists and oversight of research projects, recruiting of field courses and oversight of logistics for visiting scientists.

- **Sirenian International 1999-present:** Co-founder of organization, recruitment and networking of over 400 sirenian professionals from 40 countries around the world, development of Webpages, Listserv, Database, Bibliography, small grants program, educational outreach program, etc.
- **The Oceanic Society, San Francisco, CA 1998-1999:** Field researcher and naturalist for Manatee/Dolphin trips in Belize. Designed research project, obtained research permit, lead volunteer research team, taught snorkeling techniques, research techniques, lectured on: island safety, manatees, dolphins, coral reef ecology, and mangrove island ecology. Dates: 11/98 - 11/99.
- **Texas A&M University, College Station, TX 1997-1998:** Graduate Assistant Non-teaching. Supervisor - Glen Jones, Ph.D. Researched and compiled information on Marine related degree programs (TAMUG - Galveston, TX); HTML self-taught. Dates: 8/97 - 6/98.
- **NOAA/National Marine Fisheries Service, Narragansett, RI:** Bio-acoustical Analysis of Zooplankton. Supervisor - Mark Berman, Ph.D. Analyzed zooplankton backscatter data collected with a TRACOR 6-frequency acoustical profiler (which was attached to WHOI's SeaSoar). Responsibilities included writing and modifying MATLAB programs to analyze data and produce 3-dimensional representations of zooplankton distribution and abundance near George's Bank, North Atlantic. MATLAB self-taught. Dates: 6/97-8/97.
- **Mystic Marine Life Aquarium, Mystic, CT:** Marine Mammal Husbandry Volunteer. Supervisor - Tim Robbins. Worked ~10 hours per week in the Marine Mammal Theater. Duties included food prep, feeding and entertaining 4 belugas whales (Winston, Aurora, Kela, Naku) and 3 bottlenose dolphins (Misti, Arrow, Nina), evaluation of demonstrations and feeding sessions, kitchen and stage scrub-down. Dates: 6/97-8/97.
- **University of Sydney, QLS, AU:** Humpback Whale Migration Song Volunteer. Supervisors - Doug Cato, Ph.D., and his graduate student, Mike Noad. Recorded humpback whale song during the spring migration past Perigian Beach, QLS. Assisted with deployment of buoyed hydrophone array, used theodolites to locate positions of buoys and singers, recorded and monitored singers. Dates: 10/96.
- **Baruch Marine Laboratory, USC, Georgetown, SC:** Fluorescent Microscopy. Supervisors -Alan Lewitus, Ph.D., and Eric Koepfler, Ph.D. Prepared and counted bacterial slides as part of a long-term study of North Inlet, SC. Dates: 6/96-7/96.
- **South Carolina Dolphin Count, Myrtle Beach, SC:** Population Counts. Supervisors - Robert F. Young, Ph.D., and Sally Peace. Participated in shore counts to estimate population numbers of bottlenose dolphins migrating past Myrtle Beach. Assisted with coordination of volunteers and statistical analysis of data. Dates: 7/94-5/97.
- **Horn Point Environmental Lab, UMD, Cambridge, MD:** Maryland SeaGrant NSF-REU Fellow. Supervisor -Mike Roman, Ph.D. Investigated the effects of benthic organisms on the population dynamics of *Acartia tonsa* (Copepoda, Calonoida). Worked in the Multiscale Experimental Ecosystem Research Center (MEERC), investigating the effect of scale on the dynamics of marine ecosystem experiments. Other experience during the program included: cruise on the RV Henlopen collecting data via "SCANFISH" and plankton "torpedo"; operation of Optical Plankton Counter, Computer Image Analysis; set up and maintenance of MEERC room; identification, counting, and measurement of Chesapeake Bay Copepods including: *Acartia*, *Eurytemora*, *Saphriella*, *Oithona*. Dates: 5/95-8/95.
- **NMFS, Photo ID of *Tursiops truncatus*:** Summer Volunteer. Supervisors - Martha-jane Caldwell in Jacksonville, FL, and Erik Zolman in Charleston, SC. Experience included observation, data collection, photographing and video taping dolphins in the AIW, St. John's River, and Atlantic Ocean near Jacksonville, and Edisto River near Charleston. Dates: 5/95, 8/95.
- **Florida Department of Environmental Protection:** Stranding Network Volunteer. Assisted in the location and capture of an adult female manatee. Experience included use of purse seine net, monitoring of respiration, immobilization and transportation of animal. Dates: 5/95.
- **Center for Marine and Wetland Studies, CCU, Conway, SC:** Lab and Field Tech. Supervisor - Paul T. Gayes, Ph.D. Worked on several projects during 4 undergraduate years at Coastal Carolina University. Experiences included seismic exploration and core sampling on the NOAA Ship Ferrell, beach erosion surveys with Project BERM, Side scan sonar search for beach re-nourishment sources, and sediment analysis. Operated field computer, laser theodolite, manual theodolite, vibracore, ATV, SeaDoo, 4-wheel drive truck. Dates: 9/93-5/97.
- **Necropsy Training, NMFS & FDEP, SC & FL:** Volunteer. Supervisor - Wayne McFee, NMFS Charleston. Participated in two dolphin (SC) and one manatee (FL) necropsy. Experience included

- measurement of animals, incisions, identification and removal of organs. Dates: 11/93, 11/95, 4/98.
- **South Carolina Sea Grant, CCU, Conway, SC:** Project Coast Team Coordinator. Supervisor - Robert F. Young, Ph.D. Coordinated a Marine Science summer graduate program for primary and secondary teachers. Assisted with labs designed to teach educators how to teach marine science in the classroom. Dates: 6/94-7/94.
- **South Carolina Loggerhead Sea Turtle Nesting Project, Conway, SC:** Summer Volunteer. Supervisors - Sally Murphy, NMFS, and Eric Koepfler, Ph.D. Patrolled Waites Island to locate turtle nests, secure nests from predation, relocate nests when necessary, and inventory nests post hatching. Dates: 5/94-9/94 and 5/96-6/96.
- **South Carolina Coastal Council, Myrtle Beach, SC:** Clerical Assistant & Beach Erosion Surveys. Supervisors - Doug Nelson, Ph.D., and Mark Caldwell, M.S. Operated the theodolite during semi-annual beach erosion surveys along the Grand Strand, SC. Also worked in the Myrtle Beach permitting and enforcement office. Dates: 9/93-5/97.
- **Coastal Carolina University Aquariums, Conway, SC:** Summer Volunteer. Supervisor - Robert F. Young, Ph.D. Managed 200 and 70 gallon salt-water aquariums during the summer. Helped develop guidelines for maintenance and organized a committee for continued management. Dates: 5/94-8/94.

Seminars and Conferences Attended

- Earthwatch Principal Investigators Conferences, Boston, MA 2000-2007
- 59th Annual Gulf and Caribbean Fisheries Institute Conference, Belize 2006
- IMC9, Sapporo, Japan, 31 July 2005
- NSTA Regional (Richmond, VA) and National (Dallas, TX), 2005
- Society for Marine Mammalogy Biennial Conferences 1999-2003
- MMS Gulf of Mexico Marine Protected Species Workshop, Kenner, LA 1999
- Captive Manatee Reintroduction/Release Workshop, St. Petersburg, FL 1998
- Texas Coastal Zone Management Conference, Galveston, TX 1998
- International Bioacoustics Council Symposium, College Station, TX 1997
- Bioacoustics Short Course, SMM, Orlando, FL 1995
- SEAMAMMS (formerly the Atlantic Coastal Dolphin Research Meetings), Duke Marine Lab, NC 1995, Charleston, SC 1996, Wilmington, NC 1997, Sarasota, FL 1998
- South Carolina Marine Science Educators Conference Seabrook Island, SC 1994, Litchfield, SC 1995
- Southeastern Estuarine Research Conference, Marineland, FL 1995
- Southeastern and Gulf Estuarine/Benthic Ecology Conference, Columbia, SC 1996
- South Carolina Academy of Science Conference, Greenville, SC 1995
- NCUR Conference, Ashville, NC 1996
- South Carolina Sea Turtle Conference, Charleston, SC 1996

Memberships

- National Science Teachers Association
- The Society of Marine Mammals
- The Acoustical Society of America
- Society for Conservation Biology
- Animal Behavior Society

Tutoring

Experienced tutor for scientific writing, marine science, chemistry, biology, physics, and mathematics.

Previous Career

- **REALTOR:** Real Estate Broker and Salesperson (1981-1993)
- **Management:** Principal or supervising broker and manager for Merrill Lynch Realty, ERA Colonial Realty, and Freeman and Freeman Realty. During my career I trained and supervised more than 100 licensed sales agents.
- **Teaching:** Certified to teach, and regularly taught Principles of Real Estate, Principles of RE Finance, Code of Ethics, Fair Housing, Risk Reduction, Time Management, Continuing Education Required Courses, Prospecting, Telephone Techniques, Sweat Hogs, and Buyer Brokerage.
- **Leadership:** Served as President of the Fredericksburg Association of REALTORS in 1988 (900+ members); served as a Director for the Virginia Association of REALTORS and the Fredericksburg Association of

REALTORS for multiple years; chaired and/or served on numerous local and state committees including Fair Housing, Public Relations, Community Service, Budget and Finance, Basics of Success, VAR-REB Liaison, and Grievance.

REFERENCES

Academic

- Robert F. Young, Ph. D., Department Head, Marine Sciences, Coastal Carolina University, P.O. Box 261954, Conway, SC 29528-6054. Phone: 843-349-2277, Email: ryoung@coastal.edu
- Daniel C. Abel, Ph.D., Associate Professor of Marine Science, Director of Campus and Community Sustainability Initiative, Senior Fellow, US Partnership for Education for Sustainable Development, P.O. Box 261954, Conway, SC 29528. Phone: 843-349-225, Email: dabel@coastal.edu.
- Paul J. Camp, Ph.D., Dr. Paul J. Camp, Professor of Physics, Spelman College, Department of Physics, Atlanta, GA 30314, Phone: 404-270-5864, Email: pjcamp@curmudgeonhill.org.
- William E. Evans, Ph. D., Editor, American Midland Naturalist. Retired faculty (Texas A&M University, Notre Dame) and former NOAA Administrator. Winter Address: 4214 Camber Ct., College Station, Texas 77845-4882, phone: 979-690-5927. Summer Address: 51841 Heath Ct., South Bend, Indiana 46637, phone: (574) 271-2273. Email: evans1930@sbcglobal.net
- Wyndylyn M. von Zharen, J. D., Ed. D., W.M. von Zharen, Marine Policy Coordinator, Texas Institute of Oceanography; Professor in the Departments of Marine Sciences, Marine Biology, Oceanography, and Wildlife and Fisheries Sciences, Texas A&M University, 200 Seawolf Parkway, P.O. Box 1675, Galveston, Texas 77553-1675. Phone: (409) 740-4485. Email: vonzharen@tamug.edu OR dr_vonzharen@msn.com
- Jane M. Packard, Ph. D., Associate Professor, Wildlife & Fisheries Sciences, Texas A&M University, Mail Stop 2258, College Station, TX 77843-2258. Mobile: 979-220-4115; Office: 979-845-1465; Lab: 979-845-0495; Email: jpackard@tamu.edu; URL: <http://www.tamu.edu/ethology>

Additional Sirenian Specialists References

- Leslee Parr, Ph.D., Associate Professor, San José State University, Department of Biological Sciences, One Washington Square, San José, CA 95192-0100, Duncan Hall, Room 555. 2007-08 Visiting Scientist, Moss Landing Marine Laboratories. Phone: 831-771-4441 Email: lparr@email.sjsu.edu or lparr@mlml.calstate.edu
- Christopher D. "Chris" Marshall, Ph.D., Assistant Professor, Department of Marine Biology, Texas A&M University at Galveston, 5007 Avenue U, Galveston, TX 77551; Email: marshalc@tamug.edu; Phone: 409-740-4884; Fax: 409-740-5002.
- John E. Reynolds, III, Ph.D., Mote Marine Lab Manatee Program, Alaskan Natives Interdisciplinary Program; Office: 941.388.4441; Cell: 727.418.7270; Email: reynolds@mote.org