

University of South Florida - College of Marine Science

Curriculum Vitae

General Data

Name: Pamela Hallock Muller
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Initial Date of USF Employment/August 1983
Initial Rank: Associate Professor
Present Rank: Professor (8/88)
Tenured (6/86)
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Education

<u>Institution</u>	<u>Field of Study</u>	<u>Degree</u>	<u>Date</u>
University of Montana, Missoula	Zoology	B.A.	June 1969
University of Hawaii, Honolulu	Oceanography	M.S.	May 1972
University of Hawaii, Honolulu	Oceanography	Ph.D.	May 1977

Employment

2001- Present Professor, College of Marine Science, University of South Florida, St. Petersburg, FL
1988-2001 Professor, Department of Marine Science, University of South Florida, St. Petersburg, FL
1983-1988 Associate Professor, Department of Marine Science, University of South Florida, St. Petersburg, Florida
1979-1983 Assistant Professor, Faculty of Earth Sciences, The University of Texas of the Permian Basin, Odessa, Texas
1978-1979 Visiting Assistant Professor, Faculty of Earth Sciences, The University of Texas of the Permian Basin

Postdoctoral Research

Institute for Historical Geology and Paleontology, University of Copenhagen, Denmark (1978)
Institute of General Microbiology, Kiel University, Federal Republic of Germany (1979)

Field Research

Chief Scientist or Co-Chief Scientist on 6 research cruises, participant on 10 others.
Extensive field experience (36 years) using SCUBA and enriched air (NITROX) in reef areas worldwide, including 10-day saturation mission in 1994.

Areas of Specialization

Role of nutrients, light and ocean chemistry in coral reefs, carbonate sedimentology, and paleoceanography; role of algal symbiosis in carbonate production, community structure, and evolution. Use of larger foraminiferal distributions, population dynamics, and functional morphologies in studies of environmental quality, paleoenvironments, carbonate sedimentation, and global environmental change.

Honors, Awards, Biographies

1965-1969 University of Montana Alumni Association Scholarships
1966 Elected to Alpha Lambda Delta Scholastic Honorary, University of Montana
1968 Elected to Phi Sigma Biological Honorary and Phi Kappa Phi Scholastic Honorary, University of Montana
1971-1973 National Science Foundation Traineeship, University of Hawaii
1976 ARCS Foundation Scholarship to an outstanding graduate student in the sciences, University of Hawaii
1979, 1982 Nominee for Outstanding Teacher at the University of Texas of the Permian Basin.
1981 Listed in Outstanding Young Women of America
1987 NASA/ASEE Summer Faculty Fellowship
1991 Listed in American Men and Women of Science & Who's Who in American Women
1994 W. Storrs Cole Memorial Research Award, Geological Society of America
1995-2002 Listed in Who's Who in America
1999 Association for Women Geoscientists Outstanding Educator Award
2000 Keynote Speaker, 10th Symposium on the Geology of the Bahamas
2000-present Distinguished Speaker Program, Association for Women in Science

Professional Organizations and Offices

Cushman Foundation for Foraminiferal Research (Fellow, Board of Directors; Vice President 1992, 1994, 2010; President 1995-96)
Geological Society of America (Fellow); W. Storrs Cole Award Selection Committee (2003-10)
Paleontological Society (Schuchert Award Committee Member - 1996-97)
Association for Women Geoscientists (Member)
Association for Women in Science (Member)
American Academy of Underwater Sciences (Member)
(Technical Chair -- "Diving for Science in the 21st Century", the 20th Annual AAUS Symposium, 2000)
SEPM-Society for Sedimentary Geology including North American Micropaleontological Section
(Permian Basin Section - Technical Editor of annual guidebooks 1981, 1982; Second Vice President 1982-83; Publicity Chair for 1995 SEPM Congress on Sedimentary Geology; Executive Council - Paleontology Councilor 1997-99; Moore Medal Selection Committee Chair 1997-99; AGI Representative 1998-99; Nominations Committee 2002)
Member, International Society for Micropaleontology, Microbiology and Meiobenthology:
Member, Organizing Committee, EMMM'2002, Vienna, Austria, September 2002.
American Geophysical Union/AGU (Member)
American Society of Limnology and Oceanography/ASLO (Member)

Editorial Boards:

Associate Editor - Journal of Foraminiferal Research (1985 - 2003)
Associate Editor for Larger Foraminifera – Journal of Foraminiferal Research (2004 -)
Editorial Board - Marine Micropaleontology (1990 -)
Editorial Board - Geology (1996-1998)

Workshops Organized

Co-organized, with Dr. John Lee of City University of New York, a Workshop on Foraminiferal Biology held at Lizard Island Research Station, Australia, on July 27-30, in conjunction with the 10th International Congress of Protozoology, which was held in Sydney July 21-25, 1997.
Co-organizer, with Dr. Robert G. Loucks of ARCO Petroleum Company, Prof. Richard Moody of Kingston University, UK, and Dr. Mark Sonnenfeld of Elf Aquitaine Production Company, of an international Conference/Workshop entitled "Tertiary to Recent Larger Foraminifera: Their Depositional Environments and Importance as Petroleum Reservoirs", which was held in mid-February 1998, in Kingston, England.

Sessions Chaired at Professional Meetings

- Co-chair Sedimentology III: carbonates, evaporites, cherts. 1979 Annual Meeting, Geological Society of America, San Diego, CA.
- Co-chair Paleontology III. 1980 Annual Meeting, Geological Society of America, Atlanta, GA.
- Co-chair Paleontology I. Phylogeny and Evolution. 1982 Annual Meeting, Geological Society of America, New Orleans, LA.
- Co-chair Micropaleontology. 1983 Annual Meeting, Geological Society of America, Indianapolis, IN.
- Co-chair Cushman Symposium on functional morphology in foraminifera. Fourth North American Paleontological Congress, Boulder, CO, August 1986.
- Co-chair Paleontological Society Session on Evolution: Radiation and Extinction. 1989 Annual Meeting, Geological Society of America, St. Louis, MO.
- Co-chair Carbonate Platforms session, Society of Economic Paleontologists and Mineralogists Research Conference on Cretaceous Resources, Events, and Rhythms (CRER), Denver, CO, Aug. 1990.
- Chair Scientific session of American Academy of Underwater Sciences Tenth Annual Scientific Diving Symposium, St. Petersburg, FL, Oct. 1990.
- Co-chair Sedimentology I. Carbonate Sedimentology: Modern and Ancient. 1990 Annual Meeting, Geological Society of America, Dallas, TX.
- Co-chair Global Environmental Changes and Reef Responses. 7th International Coral Reef Symposium, Guam, June 1992.
- Convener Age, Stage and Gender in the Scientific Community, panel for conference on The Politics and Processes of Scholarly Publishing, University of South Florida, St. Petersburg, FL, March 1994.
- Co-chair Micropaleontology Session. 1995 Annual Meeting, Geological Society of America, New Orleans, LA, October 1995
- Co-chair Biology of Foraminifera, 10th International Congress of Protozoologists, Sydney, Australia, July 1997
- Co-chair Micropaleontology. 1996 Annual Meeting, Geological Society of America, Denver, CO, Oct. 1996
- Co-chair Larger Foraminifera as Environmental Indicators. Forams '98, Monterrey, Mexico, July 1998
- Co-chair Pollution: Micro- and Meioorganisms in Background Assessment, Impact, Environmental Monitoring and Recovery. Second International Conference "Application of Micro- and Meioorganisms to Environmental Problems", Winnipeg, Manitoba, Canada, August 2000.
- Co-chair Beach Development and Biogenic Framework. Carbonate Beaches 2000, Key Largo, Florida, December 2000.
- Co-chair Micropaleontological Solutions to Urban Problems, Geological Society of America, Denver, Colorado, October 2002.
- Co-chair "Protists in Extreme Environments: Fossil Evidence to Physiological Adaptations"; Cushman Foundation/ Paleontological Society Theme Session, Geological Society of America, Oct. 2005.
- Co-convenor: Ontogenetic, Taphonomic and diagenetic shell features: What stories can they tell? Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany.
- Co-convenor: Coral Reefs in a Crystal Ball: What Will Be Their Future? ASLO, San Juan, February 13-19, 2011 (posted session).
- Co-convenor: Benthic foraminifera as indicators and model organisms for environmental changes on coral reefs: local, regional and global. International Coral Reef Symposium, Cairns, Australia, 2010 (proposed).

Invited Workshop or Committee Participation

- NOAA-NURP Workshop on Coral Reef Research and Management in the Florida Keys, June 1988.
- Global Sedimentary Geology Program (GSGP) - Cretaceous Resources, Events and Rhythms (CRER) Workshop, Carbonate Platforms Working Group, Marseilles, France, September 1988.
- NSF/EPA/NOAA-sponsored Workshop on Coral Bleaching/Coral Reef Ecosystems and Global Change, Miami, Florida, June 1991.
- NOAA-NURC/UNCW-sponsored Florida Keys Nutrient Workshop, Key Largo, June 1991.
- EPA-sponsored Coral Community Assessment Workshop, Water Quality Protection Program for the Florida Keys National Marine Sanctuary, February 1992.
- GSGP-CRER Workshop, Carbonate Platforms Working Group, Trempealeau, Spain, September 1992.
- International Environmental Education Seminar for Women, sponsored by Pan Pacific and South East Asia Women's Association (PPSEAWA) chapter from the Republic of China, in cooperation with PPSEAWA International (a UNESCO chartered organization), Taipei, Taiwan, August 1993.
- NOAA-NURP Gulf of Mexico Workshop, New Orleans, Louisiana, May 1994.
- NOAA/EPA A Coral Reef Symposium on Methods for Assessing the Biota and Habitat Conditions of Coral Reefs. Annapolis, MD, January 26-27, 1995.
- Coral and Live Bottom Habitat Sub-Group Workshop, South Atlantic Fishery Management Council, September 16-17, 1997, in St. Petersburg, Florida.
- World Resources Institute, International Centre for Living Aquatic Marine Resources, and World Conservation Monitoring Centre: Reefs at Risk Workshop; Manila, Philippines; Sept. 24-25, 1997.
- U.S. Environmental Protection Agency: 1996/97 STAR Grants Ecological Assessment/ Ecosystem Indicators Program Review; Las Vegas, Nevada, February 3-5, 1998.
- Florida Department of Environmental Protection: Developing a Statewide Biological Assessment Approach for Florida's Marine and Estuarine Ecosystems; St. Petersburg, FL; Apr. 28-29, 1998.
- Invited Participant: Workshop on Developing a Statewide Biological Assessment Approach for Florida's Coral-Reef and Hardbottom Ecosystems; Sponsored by the Florida Department of Environmental Protection, St. Petersburg, FL., October 13-14, 1998; March 30-31, 1999.
- Gulf of Mexico Fishery Management Council: Special Coral Scientific and Statistical Committee (Appointed Member -- 1999-02)
- Invited Panelist: Gender Equity Workshop, Geological Society of America Committee on Minorities and Women in the Geosciences, National Association of Black Geologists and Geophysicists, and Mills College Women's Leadership Institute; Geological Society of America Meeting, Reno, NV, 11/12/00.
- Invited Participant: National Center for Caribbean Reef Research sponsored Workshop on the Future of Caribbean Reefs, 09/26-28/01
- Technical Workshop on Coral, Coral Reefs and Live/Hard Bottom Habitat and Artificial Reefs, South Atlantic Fishery Management Council, March 26-27, 2003, in St. Petersburg, Florida.
- Invited Participant: Coral Reefs, Climate and Coral Bleaching Workshop, Coral Reef Task Force, June 18-20, 2003, in Kahuku (Oahu), Hawaii.
- Invited Panelist: Where are the Women Geoscience Professors? Workshop sponsored by the Association for Women Geoscientists, the University of Nebraska and the National Science Foundation, September 26-27, 2003; in Washington, D.C.
- Presented "Reef Risk Assessment: Satellites to Molecules". South Carolina Sea Grant Consortium, Environmental Marine Biotechnology Program: Assessing the Health of Coral Reef Ecosystems in the Florida Keys Using an Integrated Molecular Biomarker System. Constituents Workshop, Key Largo, FL, January 17-18, 2004.
- Healthy Mesoamerican Reef Workshop, Invited participant and speaker, Miami, Florida, 06/02-04/04.
- Satellites to Molecules: Strategies and Tools for Reef Monitoring & Risk Assessment. Florida Hurricane Alliance Workshop, March 1, 2005.
- Chaired Session 2A and presented session summary: Ecosystem Responses to Elevated CO₂ - Neritic Ecosystem Response. Impacts of Increasing Atmospheric CO₂ on Coral Reefs and Other Marine Calcifiers. Sponsors: NOAA/NSF/USGS. St. Petersburg, Florida April 18-20, 2005.
- Satellites to Molecules: Strategies and Tools for Reef Monitoring & Risk Assessment. Shortcourse on Environmental Micropaleontology- Monitoring past and present environmental perturbations using micro-organisms, Conference Universitaire de la Suisse Occidentale (CUSO), Fribourg, Switzerland, July 5, 2005.

Invited Workshop or Committee Participation (cont.)

Causes and Consequences of Bleaching in the Reef-Dwelling Foraminifera, *Amphistegina* spp.
Workshop on unicellular symbionts, University of Vienna, Austria, December 12, 2005.
14th International Conference on Environmental Bioindicators, Maritime Institute, Linthicum, Maryland,
April 24-26, 2006
NSF Workshop: Community Sedimentary Model for Carbonate Systems, Colorado School of Mines,
Golden, CO, February 27-29, 2008

Civic and Public Service Activities

Member and scientific advisor, Odessa Meteor Crater Task Force, Tourism Committee, Odessa Chamber
of Commerce, Odessa, Texas (1979-1983)
Career Day Speaker on Oceanography for Midland and Lee Freshman High Schools, Texas (1980, 1982,
1983)
Marine Science Consultant to South Baywood Neighborhood (Southeast St. Petersburg, FL) Girl Scouts
(1983-85)
Book Scholarship Committee Chair, USF - St. Petersburg Women's Organization (1985-86)
Lecture on coral reefs/marine science/paleontology (or locate lecturers) for Pinellas County Schools
Community Resources Bank (1984 -)
Member Scientific Advisory Panel, American Littoral Society - Coral Reef Conservation Center, Key
Biscayne, Florida (1988-)
University of South Florida - St. Petersburg Speaker's Bureau (1988 – 1998; discontinued at that time)
Judge, 35th State Science and Engineering Fair (1990)
Judge, Pinellas County Science Fair (1989, 1991, 1994, 1995, 1999, 2003)
Participant, Save Our Shores Coastal Cleanup (1993-2008)
Mentor for two Lakewood High School (Center for Advanced Technologies) science students (1996-97)
American Association of University Women Legal Advocacy Fund Speaker (1999-2000)
Organized teams for Oasis Bowl-a-thon, USF, St. Petersburg (2000, 2002)
Member: Special Coral Scientific and Statistical Committee, Gulf of Mexico Fishery Management Council
(1999-2003)
Mentor for Zaki Moustafa, West Palm Beach, Florida, 2005, 2006, 2007, 2008 winner of Senior Division
Zoology and 2005 Best of Show, Florida State Science Fair
Expert Judge, Spoonbill Bowl (West Florida Regional qualifier for the National Ocean Science Bowl) –
2006, 2007, 2008, 2009

Consulting Activities

For Hawaiian Electric Company, Inc., Honolulu, Hawaii: Consultant on the effects of thermal effluent on
benthic foraminifera and nearshore carbonate sedimentation (1975-1977)
For Cities Service Research Center, Tulsa, Oklahoma: Consultant on paleoenvironmental analysis to
Tertiary carbonate cores (1981)
For Prentice-Hall, Englewood Cliffs, NJ: Reviewed manuscript for Dynamic Stratigraphy, 2nd Edition, by
R. K. Matthews (1982)
For William T. Probandt, Exploration Geologist: Consultant on reef models for hydrocarbon exploration
(1983)
For Southwest Teacher Education Center, Fort Myers, Florida, and Sarasota County School Board,
Osprey, Florida: Consultant in Earth Science Education (June-July 1984)
For Continental Shelf Associates, Jupiter, Florida: Consultant on coral reefs of the Florida Keys (1988-89)
For W. H. Freeman, New York: Reviewed manuscript for Palaces under the Sea: The Coral Reefs, by
J. Strykowski and R. Bonem (1991)

University, College, Departmental, or SUS Councils or Committees

The University of Texas of the Permian Basin

Faculty Senate Curriculum Committee (1981- 1982, chair: 1982)
Library - Media Committee (1978-1982)
Financial Aid and Scholarship Committee (1979-81, 1982-83)
Alumni Committee (1981-82)
Advisory Committee for the Selection of a Chief Administrative Officer (President) of the University of Texas of the Permian Basin (1982-83)

University of South Florida

Department of Marine Science Space Committee (1983-87)
Department of Marine Science Budget Committee (Chair) (1984-87)
Department/College of Marine Science Admissions and Awards Committee (1984-2003)
Department/College of Marine Science Tenure and Promotion Committee (1986-2003)
Department of Marine Science Curriculum Committee (Chair) (1987-92)
Department/College of Marine Science Scientific Diving Committee (Chair) (1987-02)
Marine Science School/College Initiative Committee (1988-90)
Department of Marine Science Faculty Recruiting Committee (1989-97, Chair 1995-97)
Department of Marine Science Search Committee for Physical Oceanographer (1995)
Department of Marine Science Search Committee for Marine Geologist (Chair 1995-96)
Department of Marine Science Search Committee for Marine Geochemist (1996)
Department/College of Marine Science Faculty Evaluation Committee (1990-Chair, 1992, 1994, 1996, 2002, 2006-Chair, 2008, 2009 -chair)
Department of Marine Science PEP Evaluation Committee (1996, 1998-Chair)
Department of Marine Science Personnel Committee (1989-97)
College of Arts and Sciences Graduate Curriculum Committee (Chair - 1990-92)
University Diving Control Board (Member 1987-09; Chair 1992-99)
University Search Committee, Dean of Arts and Sciences (Member 1989-90)
Search Committee, Dean of St. Petersburg Campus (Substitute Member 1991)
University of South Florida Research Council (Member 1992-96)
University of South Florida Status of Women Committee (Member 1998-2001)
Biology Department Search Committee for a Marine Ecologist (Member 1999)
College of Marine Science Transition Planning Committee (Member 2000)
Dean's Advisory Council Member, College of Marine Science (Member 2000-2002; 2007-09)
College of Marine Science Search Committee for Biological Oceanographer (2002-05)
College of Marine Science Evaluation Oversight Committee (Chair – 2003-05)
USF Graduate Council, including Policy and Curriculum Committee (Member 2005-08, 2009-)
Search Committee for Dean of the College of Marine Science (2006-2008)
CMS Annual Evaluation Committee Chair (2007, 2009)
Member, USF Task Force Steering Committee on Faculty Roles, Responsibilities and Rewards; Rewards Working Group Chair (2008-09)
CMS Search Committee for Remote-Sensing Oceanographer and Fish Ecologist (2008-09)
CMS Center for Ocean Technology Advisory Committee (2008-09)

SUS/BOR/UFF Committees

UFF/BOR Joint Task for on SUS Faculty Salaries (Member 1999-00)

Research and Creative Activities

Publications

Articles in Refereed Journals

1. Muller, P. Hallock. 1974. Sediment production and population biology of the benthic foraminifer *Amphistegina madagascariensis*. *Limnology and Oceanography* 19:802-809.
2. Muller, P. Hallock. 1978. Carbon-14 fixation and loss in a foraminiferal-algal symbiont system. *Journal of Foraminiferal Research* 8:34-41.
3. Hallock, P. 1979. Trends in test shape in large, symbiont-bearing foraminifera. *Journal of Foraminiferal Research* 9:61-69.
4. Hallock, P. and H. J. Hansen. 1979. Depth adaptation in *Amphistegina*: change in lamellar thickness. *Geological Society of Denmark, Bulletin* 27:99-104.
5. Hallock, P. and A. R. Larsen. 1979. Coiling direction in *Amphistegina*. *Marine Micropaleontology* 4:33-44.
6. Hallock, P. 1981. Light dependence in *Amphistegina*. *Journal of Foraminiferal Research* 11:42-48.
7. Hallock, P. 1981. Algal symbiosis: a mathematical analysis. *Marine Biology* 62:249-255.
8. Hallock, P. 1981. Production of carbonate sediments by selected foraminifera on two Pacific coral reefs. *Journal of Sedimentary Petrology* 51:467-474.
9. Röttger, R. and P. Hallock. 1982. Shape trends in *Heterostegina*. *Journal of Foraminiferal Research* 12:197-204.
10. Hallock, P. 1984. Distribution of selected species of living algal symbiont-bearing foraminifera on two Pacific coral reefs. *Journal of Foraminiferal Research* 14:250-261.
11. Hallock, P. 1985. Why are larger foraminifera large? *Paleobiology* 11:195-208.
12. Hallock, P. and E. C. Glenn. 1985. Paleoenvironmental analysis of foraminiferal assemblages: a tool for recognizing depositional facies in lower Miocene reef complexes. *Journal of Paleontology* 59:1382-1394.
13. Hallock, P. and E. C. Glenn. 1986. Larger foraminifera: a tool for paleoenvironmental analysis of Cenozoic carbonate facies. *Palaios* 1:55-64.
14. Hallock, P. and W. Schlager. 1986. Nutrient excess and the demise of coral reefs and carbonate platforms. *Palaios* 1:389-398.
15. Hallock, P., T. L. Cottey, L. B. Forward and J. Halas. 1986. Population dynamics and sediment production by *Archaias angulatus* (Foraminiferida) in Largo Sound, Florida. *Journal of Foraminiferal Research* 16:1-18.
16. Hallock, P., L. B. Forward and H. J. Hansen. 1986. Environmental influence of test shape in *Amphistegina*. *Journal of Foraminiferal Research* 16:224-231.
17. Hallock, P. 1987. Fluctuations in the trophic resource continuum: a factor in global diversity cycles? *Paleoceanography* 2:457-471.
18. Lee, J. J. and P. Hallock. 1987. Algal symbiosis as the driving force in the evolution of larger foraminifera. *Annals of the New York Academy of Science* 503:330-347.
19. Cottey, T. L. and P. Hallock. 1988. Test surface degradation in *Archaias angulatus*. *Journal of Foraminiferal Research* 18(3):187-202.
20. Hallock, P. 1988. The role of nutrient availability in bioerosion: consequences to carbonate buildups. *Palaeogeography, Palaeoclimatology, Palaeoecology* 63:275-291.
21. Hallock, P., A. C. Hine, G. A. Vargo, J. A. Elrod and W. C. Jaap. 1988. Platforms of the Nicaraguan Rise: Examples of the sensitivity of carbonate sedimentation to excess trophic resources? *Geology* 16:1104-1107.

Articles in Refereed Journals (cont.)

22. Hine, A. C., P. Hallock, M. Harris, H. T. Mullins, D. F. Belknap and W. C. Jaap. 1988. *Halimeda* bioherms along an open seaway: Miskito Channel, Nicaraguan Rise, S.W. Caribbean Sea. *Coral Reefs* 6:173-178.
23. Hallock, P., I. Premoli-Silva and A. Boersma. 1991. Similarities between planktonic and larger foraminiferal evolutionary trends through Paleogene paleoceanographic changes. *Palaeogeography, Palaeoclimatology, Palaeoecology* 83:49-64.
24. Triffleman, N. J., P. Hallock, A. C. Hine and M. W. Peebles. 1991. Foraminifera of Serranilla Bank: Distribution of Foraminiferal Tests in Sediments of Serranilla Bank, Nicaraguan Rise, Southwestern Caribbean. *Journal of Foraminiferal Research* 21:39-47.
25. Hine, A. C., S. D. Locker, L. P. Tedesco, H. T. Mullins, P. Hallock, D. F. Belknap, J. L. Gonzales, A. C. Neumann and S. W. Snyder. 1992. Megabreccia shedding from modern, low-relief carbonate platforms, Nicaraguan Rise. *Geological Society of America Bulletin* 104:928-943.
26. Lang, J. C., H. R. Lasker, E. H. Gladfelter, P. Hallock, W. C. Jaap, F. J. Losada and R. G. Muller. 1992. Spatial and Temporal Variability during Periods of "Recovery" after Mass Bleaching on Western Atlantic Coral Reefs. *American Zoologist* 32:696-706.
27. Triffleman, N. J., P. Hallock and A. C. Hine. 1992. Morphology, sediments, and depositional environments of a small carbonate platform: Serranilla Bank, Nicaraguan Rise, southwest Caribbean Sea. *Journal of Sedimentary Petrology* 62:591-606.
28. Erlich, R. N., P. F. Farfan, and P. Hallock. 1993. Biostratigraphy, depositional environments, and diagenesis of the Tamana Formation, Trinidad: A tectonic marker horizon. *Sedimentology* 40:743-768.
29. Hallock, P. and M. W. Peebles. 1993. Foraminifera with chlorophyte endosymbionts: Habitats of six species in the Florida Keys. *Marine Micropaleontology* 20:277-292.
30. Hallock, P., F. E. Müller-Karger and J. C. Halas. 1993. Coral Reef Decline - Anthropogenic Nutrients and the Degradation of Western Atlantic and Caribbean Coral Reefs. *Research and Exploration* 9(3):358-378.
31. Hallock, P. 1994. Promoting diversity on campus: An insider's point of view. *Thought and Action* X(2):65-78.
32. Hallock, P. and H. K. Talge. 1994. A predatory foraminifer, *Floresina amphiphaga* n. sp., from the Florida Keys. *Journal of Foraminiferal Research* 24(4):210-213.
33. Hine, A. C., M. W. Harris, S. D. Locker, P. Hallock, M. Peebles, L. P. Tedesco, H. T. Mullins, S. W. Snyder, D. F. Belknap, J. L. Gonzales, A. C. Neumann, and J. Martinez. 1994. Sedimentary infilling of an open seaway: Bawihka Channel, Nicaraguan Rise. *Journal of Sedimentary Research* B64(1):2-25.
34. Hallock, P., H. K. Talge, E. M. Cockey and R. G. Muller. 1995. A new disease in reef-dwelling foraminifera: Implications for coastal sedimentation. *Journal of Foraminiferal Research* 25:280-286.
35. Lee, J. J., J. Morales, A. Symons, and P. Hallock. 1995. Diatom symbionts in larger foraminifera from Caribbean hosts. *Marine Micropaleontology*. 26: 99-105.
36. Talge, H. K. and P. Hallock. 1995. Cytological examination of symbiont loss in a benthic foraminifera, *Amphistegina gibbosa*. *Marine Micropaleontology* 26: 107-113.
37. Cockey, E.M., P. Hallock, and B. Lidz. 1996. Decadal scale changes in benthic foraminiferal assemblages off Key Largo, Florida. *Coral Reefs*. 15:237-248.
38. Peebles, M. W., P. Hallock and A. C. Hine. 1997. Benthic foraminiferal assemblages from current-swept carbonate platforms of the Northern Nicaraguan Rise, Caribbean Sea. *Journal of Foraminiferal Research*. 27:42-50.
39. Williams, D.E., P. Hallock, H.K. Talge, J.N. Harney, and G. McRae. 1997. Responses of *Amphistegina gibbosa* populations in the Florida Keys to a multi-year stress event (1991-96). *Journal of Foraminiferal Research*, 27:264-269.
40. Lee, J.J., J. Morales, S. Bacus, A. Diamont, P. Hallock, J. Pawlowski, and J. Thorpe. 1997. Progress in characterizing the endosymbiotic dinoflagellates of soritid foraminifera and related studies on the life cycle of *Marginopora vertebralis*. *Journal of Foraminiferal Research*, 27(4): 254-263.

Articles in Refereed Journals (cont.)

41. Harney, J., Hallock, P., and Talge, H.K. 1998. Observations on a trimorphic life cycle in *Amphistegina gibbosa* populations from the Florida Keys. *Journal of Foraminiferal Research*, 28(2):141-147.
42. Toler, S.K. and P. Hallock. 1998. Shell malformation in stressed *Amphistegina* populations: relation to biomineralization and paleoenvironmental potential. *Marine Micropaleontology* 34: 107-115.
43. Hallock, P., Talge, H.K., Williams, D.E., and Harney, J.N. 1998. Borings in *Amphistegina* (Foraminiferida): Evidence for predation by *Floresina amphiphaga* (Foraminiferida). *Historical Biology* 13:73-76.
44. Fujita, K. and P. Hallock. 1999. A comparison of phytal substrate preferences of *Archaias angulatus* and *Sorites orbiculus* in mixed macroalgal-seagrass beds in Florida Bay. *Journal of Foraminiferal Research* 29:143-151.
45. Harney, J.N., P. Hallock, C.H. Fletcher III, B.M. Richmond. 1999. Standing crop and sediment production of reef-dwelling foraminifera on Oahu, Hawaii. *Pacific Science* 53:61-73.
46. James, N.P., L.B. Collins, Y. Bone and P. Hallock. 1999. Rottneest Shelf to Ningaloo Reef: Cool-Water to Warm-Water Carbonate Transition on the Continental Shelf of Western Australia. *Journal of Sedimentary Research* 69:1297-1321.
47. Hallock, P. 2000. Symbiont-bearing foraminifera: harbingers of global change. *Micropaleontology* 46(Suppl. 1): 95-104.
48. Lidz, B.H. and P. Hallock. 2000. Sedimentary petrology of a declining reef ecosystem, Florida Reef Tract (U.S.A.). *Journal of Coastal Research* 16:675-697.
49. Holzmann, M., J. Hohenegger, P. Hallock, W.E. Piller, and J. Pawlowski. 2001. Molecular phylogeny of larger miliolid foraminifera (Soritacea Ehrenberg 1839). *Marine Micropaleontology* 43:57-74.
50. Isern, A.R., Anselmetti, F. S., Blum, P. and Shipboard Scientific Party. 2001. Ocean Drilling Constraints Carbonate Platform Formation and Miocene Sea Level on the Australian Margin. EOS, Transactions of the American Geophysical Union, Vol. 82 No. 41 pp 469. (R)
51. McField, M.D., P. Hallock, W. Jaap. 2001. Multivariate analysis of reef community structure in the Belize Barrier Reef complex. *Bulletin of Marine Science*. 69(2):745-758.
52. Pawlowski, J., M. Holzmann, J.F. Fahrni, and P. Hallock. 2001. Molecular identification of algal endosymbionts in large miliolid foraminifera: 1. Chlorophytes. *Journal of Eukaryotic Microbiology* 48:362-367.
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1. Hallock, P. 1987. The Gulf of Aqaba - Ecological Micropaleontology. Reiss, Z., and L. Hottinger, Carbonates and Evaporites 2(1):85-86.
2. Hallock, P. 1992. Upper Cretaceous Stratigraphy of the Island of Brac. Gusic, I. and V. Jelaska. Palaios 7(1):125-127.
3. Hallock, P. 1995. Radial Foraminifera; Morphometrics and Evolution, C. W. Drooger, Marine Micropaleontology 24(3/4):359-360.
4. Hallock, P. 1995. Elsevier's Microfossil Wall Chart, compiled by F. G. Koning. Palaeogeography, Palaeoclimatology, Palaeoecology 113:395-396.
5. Hallock, P. 1998. Cool-Water Carbonates, edited by N.P. James, SEPM Special Publication No. 56. EOS 79(1):4.
6. Hallock Muller, P. 1999. *What is Natural? Coral Reef Crisis*, by Jan Sapp. American Paleontologist 7:9-10.
7. Hallock, P. 2010. Taxonomy of Foraminifera from Ningaloo Reef, Western Australia, by Justin H. Parker. 2009, Journal of Foraminiferal Research, 40(3): 601-602.

Grants and Contracts

- Distribution and sediment production by shallow-water foraminifera at selected sites on Oahu, Hawaii. Principal Investigator. The Environmental Center, University of Hawaii. July 1974 - June 1975; \$2,500.
- The distribution of foraminifera in the vicinity of the present and proposed outfalls of the Kahe Point Power Plant. Principal Investigator. Hawaiian Electric Company, Inc. May 1975 - August 1976; \$4,000.
- The effects of the Kahe offshore outfall on benthic foraminifera. Principal Investigator. Hawaiian Electric Company, Inc. January - October 1977; \$1,500.
- Coiling direction in *Amphistegina*. Co-investigator. Danish Natural Science Research Council, Copenhagen, Denmark. January - April 1978; 2,400 DKr.
- Depth adaptation in *Heterostegina*: changes in test shape. Co-investigator. Deutscher Akademischer Austauschdienst, Bonn, Federal Republic of Germany. June - August 1979; 2,400 DM.
- The effects of vegetation on spectral signatures at Coyanosa Test Site. Principal Investigator. NASA/GEOSAT Test Case Program. July 1980 - December 1981; \$3,600.
- Paleodepth studies of symbiont-bearing, benthic foraminifera. Principal Investigator. National Science Foundation EAR-8026459. July 1981 - November 1983; \$30,000.
- Instrumentation for paleodepth studies of symbiont-bearing foraminifera. Principal Investigator. National Science Foundation PRM-8112906. July 1981 - June 1982; \$9,500.
- Environmental influence of test morphology in soritid foraminifera from Key Largo, Florida. Principal Investigator. University of South Florida Faculty Research and Creative Scholarship. March 1984 - May 1985; \$3,600.
- Comparison of living and total assemblages of larger foraminifera from middle and outer shelf habitats of the Tortugas area. Principal Investigator. Florida Institute of Oceanography (ship time on R/V Bellows). September 1984; \$9,250.
- Effects of particulate organic carbon on calcium carbonate deposition in Caribbean reef systems. Principal Investigator. National Science Foundation EAR-8407781. January 1985 - June 1987; \$85,400.
- Travel to the VII International Congress of Protozoology, Nairobi, Kenya, June 1985. University of South Florida Faculty Foreign Travel Fund; \$1,000.
- Image Analysis System, HPLC, and Liquid Scintillation Counter for the University of South Florida's Department of Marine Science. Co-principal Investigator. National Science Foundation BSR-8507343. August 1985 - July 1986; \$57,715.
- Florida Geology for Elementary Teachers. Seed Grant from the University of South Florida Center for Excellence in Mathematics, Science, Computers, and Technology. April - September 1986; \$1,000.

Grants and Contracts (cont.)

- Marine Micropaleontology Class Cruise, Fall 1986. Chief Scientist. Florida Institute of Oceanography (ship time on R/V Suncoaster). October 1986; \$5,250.
- Shallow Stratigraphy, Structure, and Modern Depositional Processes Along Margins of Small, Detached Carbonate Platforms in an Active Tectonic Setting: Nicaraguan Rise. Co-principal Investigator with A. C. Hine. National Science Foundation, Division of Ocean Sciences. January 1987 - June 1989; \$249,593.
- NASA/ASEE Summer Faculty Fellowship, Goddard Space Flight Center, Greenbelt, Maryland. Summer 1987; \$8,000 plus facilities use.
- Deployment of ROV Along Shallow Margins of Carbonate Platforms Situated on the Nicaraguan Rise: S.W. Caribbean Sea. Co-principal Investigator with A. C. Hine. NOAA National Undersea Research Program, equipment and technical assistance grant, May 1988.
- Travel to the 6th International Coral Reef Symposium, Townsville, Australia, August 1988. University of South Florida Faculty Foreign Travel Fund; \$750.
- Travel to the Global Sedimentary Geology Program Cretaceous Resources, Events and Rhythms Workshops, Digne, France, September 1988. U. S. National Committee, Global Sedimentary Geology Program; \$1,505.
- Comparisons of optical properties and chlorophyll concentrations with carbonate sediment distributions: west Florida shelf. Principal Investigator. Florida Institute of Oceanography (shiptime on R/V Bellows). April 1989.
- Shallow Stratigraphy, Structure, and Modern Depositional Processes Along Margins of Small, Detached Carbonate Platforms in an Active Tectonic Setting: Nicaraguan Rise. Co-principal Investigator with A. C. Hine. National Science Foundation, Division of Ocean Sciences OCE-8900040. May 1989 - April 1992; \$163,126.
- Support for preparation of "Geology of Florida for Teachers" book manuscript. Principal Investigator. USF Center for Excellence in Mathematics, Science, Computers and Technology. 1989; \$2,600.
- Travel to Third International Conference on Paleoceanography, Cambridge, England, September 1989. Department of Earth Sciences, University of Milan, Italy; \$700.
- Carbonate Depositional Environments of the Dry Tortugas and Southwest Florida Shelf. Principal Investigator. Florida Institute of Oceanography (ship time on R/V Suncoaster). November 1990; \$7,200.
- Cytological changes with darkness-induced dormancy in foraminifera with algal symbionts. Principal Investigator. USF Research and Creative Scholarship. April 1991 - April 1992; \$7,198.
- Foraminiferal assemblages of selected Key Largo reefs, Florida Keys. Principal Investigator with Barbara Lidz (USGS). NOAA/ National Undersea Research Center UNCW9120. May 1, 1991 - April 30, 1992; \$2,880.
- Northern Nicaraguan Rise, Case for: Neogene Segmentation of a Carbonate Megaplatform by Strike-Slip and Related Extension Tectonics and Paleogateway for the Neogene Initiation and Strengthening of the Caribbean Current. Co-principal Investigator with A. C. Hine. National Science Foundation OCE-9212635. January 13, 1992 - March 31, 1995; \$133,095.
- Symbiont Loss ("Bleaching") in a Reef-Dwelling Foraminifer. Principal Investigator. National Science Foundation OCE-9203278. February 1, 1992 - July 31, 1993; \$48,935.
- Decadal-Scale Changes in Benthic Foraminiferal Assemblages in Reef-Tract Sediments off Key Largo. Principal Investigator with Barbara Lidz (USGS). The Research Consortium. February 1, 1992 - July 31, 1993; \$2,000.
- Decadal-Scale Changes in Benthic Foraminiferal Assemblages in Reef-Tract Sediments off Key Largo, Florida. Principal Investigator with Barbara Lidz (USGS). National Oceanic and Atmospheric Administration/National Undersea Research Center UNCW 9221. April 1992 - April 1993; \$13,713.
- Bleaching in Benthic Foraminifera: Indicator of Increasing UV Radiation on Coral Reefs. Principal Investigator. NOAA National Undersea Research Center UNCW 9204.4. May 1992 - April 1993; \$5,000.

Grants and Contracts (cont.)

- Acquisition of a Transmission Electron Microscope and Elemental Microanalysis System for the New Marine Science Building. Co-Principal Investigator with J. H. Paul, J. S. Compton, J. B. Rose and R. R. Wilson. National Science Foundation OCE-9214614. September 1992 - August 1995; \$150,000.
- Carbonate Depositional Environments of the Dry Tortugas and Southwest Florida Shelf. Principal Investigator. Florida Institute of Oceanography (ship time on R/V Bellows). October 1992; \$7,200.
- UV Induced Bleaching in the Benthic Foraminifer *Amphistegina gibbosa*. Principal Investigator. NOAA National Undersea Research Center UNCW 9322. December 1992 - December 1993; \$5,000.
- The Oceanography Camp for Girls. Co-Principal Investigator with P. R. Betzer, P. G. Coble, and T. M. Greeley. National Science Foundation Young Scholars Program ESI-9353012. May 1, 1994 - September 30, 1996; \$73,756.
- Evolutionary Implications of Environmental Stress in Adult *Amphistegina*. Principal Investigator. The Geological Society of America, W. Storrs Cole Memorial Research Award. 1994; \$7,000.
- Support of the Research Activities of a Marine Engineering Institute at the University of South Florida. Co-Principal Investigator with J. L. Brown, T. L. Hopkins, R. Streeter, and others. Department of Defense/Office of Naval Research; \$2,000,000. P. Hallock Muller Development of a Underwater UV Radiometer; June 1, 1994 - May 31, 1996; \$30,961.
- Field Support to Continue Long-Term Sampling of Stressed Benthic Foraminiferal Populations in the Florida Keys. Principal Investigator. National Oceanic and Atmospheric Administration/National Undersea Research Center UNCW 9515. January 1 - December 31, 1995; \$5,749.
- Instrumentation for Molecular Analysis of Marine Organisms. Co-Principal Investigator with J. H. Paul, J. B. Rose, and R. R. Wilson. National Science Foundation BIR-9512122. August 15, 1995 - July 31, 1997; \$100,390.
- Field Support to Continue Long-Term Sampling of Stressed Benthic Foraminiferal Populations in the Florida Keys. Principal Investigator. National Oceanic and Atmospheric Administration/National Undersea Research Center UNCW 9609. January 1 - December 31, 1996; \$5,406.
- Larger Benthic Foraminifera as Indicators of Environmental Change. Principal Investigator. U.S. Department of Interior - Geological Survey, Reston, Virginia, Award No. 1434-94-A-1185. October 1, 1995-September 30, 1996; \$8,000.
- A Study of the Effects of Disposal of Seawater Desalination Discharges on Nearshore Benthic Communities--Phase II. Southwest Florida Water Management District. Co-PI with N. Blake, G. Vargo and others. 2/97-7/98. \$7,500 (to PHM).
- Recruitment Tiles from the Florida Keys. Florida Department of Environmental Protection. March 5 - June 30, 1997. \$10,000.
- Field Support to sample stressed foraminiferal populations in the Florida Keys. Principal Investigator. National Oceanic and Atmospheric Administration/National Undersea Research Center UNCW 9703-66. January 1 - December 31, 1997, \$3,820.
- Design and Construction of an Underwater Housing for Affordable Monitoring of Solar Radiation to USF Research and Creative Scholarship Grant Programs on 2/15/97; \$7,500; May 1997-April 1998. (PI, Scott Samson of the Center for Ocean Technology, Co-PI).
- "Travel to the 10th International Protozoology Congress, Sydney, Australia" to USF International Travel Grants Program on 2/15/97; \$1,500.
- Geosciences and Society - A Multimedia Approach by Teachers and Scientists; National Science Foundation - Awards to Facilitate Geoscience Education; PI's Theresa Greely, Peter Betzer, A.C. Hine, P. Hallock Muller, F. Muller-Karger, Sarah Tebbens, J.J. Torres, R.H. Weisberg, amount requested: \$49,718; proposed duration: 9/1/98-8/30/99.
- Foraminifera as Ecosystem Indicators: Phase 1. A Marine Benthic Perturbation Index; Phase 2. Bioassay Protocols. Principal Investigator. U.S. Environmental Protection Agency - ORD - NCERQA GAD#R825869. October 1, 1997 - September 30, 2000. \$295,043. \$49,502 supplement and extension to 09/30/02.

Grants and Contracts (cont.)

- “Foraminifera in lagoon sediments of Glovers Reef Atoll: Have assemblages changed since 1970?” Wildlife Conservation Society, 10/98-4/00; \$6,000.
- “Biological and Geological Characterization of the Tortugas Banks Area, Florida Keys National Marine Sanctuary”. Sustainable Seas Expeditions, National Geographic Society, submersible time in September 1999. PI, Co-PI's include A.C. Hine, D. Naar, and D. Mallinson (DMS-USF), W.C. Jaap, J. Wheaton (FMRI-DEP), and G.P. Schmal (FKNMS).
- Bleaching in Reef-Dwelling Foraminifera: Can Stress Symptoms be Induced in Field Experiments? Principal Investigator. National Oceanic and Atmospheric Administration/National Undersea Research Center UNCW 9922. 1/1-12-31/99, \$20,000.
- ROV observations and acoustic/sedimentologic characteristics of outlier reef, slope bedforms, and lowstand ridge deposits; southwest Florida continental margin. A.C. Hine, P. Hallock Muller and B. Jarret, co-PI's. National Oceanic and Atmospheric Administration - National Undersea Research Center/University of North Carolina at Wilmington; \$20,000 plus field support; 1/99-06/00.
- A Geological Investigation of late Pleistocene Relict Reefs on the South Florida Margin. Florida Institute of Oceanography. PI with David Mallinson. 5 days ship time on R/V Bellows October 1999 (lost to inclement weather).
- Environmental Marine Biotechnology: Assessing the Health of Coral Reef Ecosystems in the Florida Keys Using an Integrated Molecular Biomarker System. South Carolina Sea Grant Program. PI: Cheryl Woodley and Eric Lacy, Medical University of South Carolina. PH-M is Co-PI with J. Halas, J. Fauth, and C. Downs. Total project \$250,000; subcontract to USF \$41,648; duration: 9/1/00-8/31/02
- Assessment of Foraminiferal Assemblages of Biscayne Bay Sediments. USF component of USGS Project entitled: Pilot Study of the Biogeochemical History of Ecosystems in Biscayne Bay. With USGS PI's: Barbara Lidz and Eugene Shinn. Duration: 10/01/00-09/30/01. \$22,000
- Participation in Ocean Drilling Program Cruise Leg 194 – Marion Plateau. 01/06/01-12/31/02. \$51,609.
- Larger benthic foraminifera of Miocene carbonate platforms of the Marion Plateau (ODP Leg 194: Sites 1193-99): Biostratigraphy and paleoenvironmental interpretation. US Science Support Program/Ocean Drilling Program, Texas A&M University. 06/01-05/03. \$22,990.
- Chemical Pollutants and Toxic Effects on Benthic Foraminifera, Biscayne Bay, Florida, PI B. Lidz. Component of the Cooperative Agreement with the U.S. Geological Survey for Partial Support of Research at the USF/USGS Cooperative Research Center for Coastal Geology. This component: \$20,191. Duration 10/01-09/02.
- Ecosystem Response to Elevated Arsenic Levels. National Science Foundation – CHE-0221834. PI: Thomas Pichler, Co-PI's: James Garey, Gary Huxel and Pamela Hallock Muller. \$1.49 million; Duration: 10/01/02 - 09/30/06.
- Three New Tools for Reef Monitoring and Risk Assessment: Distinguishing Local from Global Stresses. Florida Keys National Marine Sanctuary's 2003 Special Studies Program. \$52,875; Duration: 10/01/03 – 06/30/05.
- Biochemistry of Ecosystems in Biscayne Bay, Florida. PI B. Lidz. Component of the Cooperative Agreement with the U.S. Geological Survey for Partial Support of Research at the USF/USGS Cooperative Research Center for Coastal Geology. Funding period: 10/02-09/03: \$33,302; Funding period 050104 – 043005: \$30,000.
- Advanced Remote Sensing Methods for Caribbean Coral Reef Studies, PI J. Brock, . Component of the Cooperative Agreement with the U.S. Geological Survey for Partial Support of Research at the USF/USGS Cooperative Research Center for Coastal Geology. \$34,359; 050104 – 043005; 35,999; 050105 – 043006.
- Quantifying Ecological and Economic Impacts of Tropical Cyclones on Coral Reefs and Coastal Water Quality in South Florida. With T. J. Mason (USF-CPH), NOAA/through FIU International Hurricane Center, Year 1: total \$189,875; PHM component: \$135,465; 10/01/04-12/31/05; Year 2: total \$162,645 PHM component: \$149,060; 10/01/05-12/31/07.

Application of Historic Data Sets and Bioindicators to Assess Status and Ecological Function of Upper Keys Patch Reefs. U.S. EPA Special Studies in the Florida Keys National Marine Sanctuary or Southeast Florida. \$49,989, 01/01/07-12/31/08.

Experiments to Determine the Impacts of a High CO₂ World on High Latitude, Temperate and Tropical Benthic Foraminifera. Subcontract to PHM for proposal submitted to NSF-Biological Oceanography by Joan Bernhard, WHOI. 10/1/07-09/30/10; PHM subcontract: \$54,132.

Pollutants and foraminiferal assemblages in Jobos Bay: An environmental micropaleontology approach. NOAA-National Estuary Program. PI: PHM for M. Martinez. Proposed duration: 06/1/07-05/31/09; 39,732

Benthic Foraminifera as Bio-indicators of Heavy Metal Pollution: Torrecilla Lagoon (San Juan Bay Estuary), Puerto Rico. Puerto Rico SeaGrant. PIs: M. Martinez-Colon and P. Hallock Muller. Project period: 02/08-01/10; \$97,394.

West Florida Shelf: A Natural Laboratory for the Study of Ocean Acidification. Shiptime proposal to Florida Institute of Oceanography. Four days aboard the R/V Suncoaster representing an award of \$15,200 in shiptime and support services from the State of Florida. 04/01-14/08.

Florida Shelves: A Natural Laboratory for the Study of Ocean Acidification. Shiptime proposal to Florida Institute of Oceanography. Four days aboard the R/V Bellows representing an award of \$12,400 in shiptime and support services from the State of Florida. 03/08.

Response of Florida Shelf Sediments to Ocean Chemistry. Component of the Cooperative Agreement with the U.S. Geological Survey for Partial Support of Research at the USF/USGS Cooperative Research Center for Coastal Geology. \$19,000; 050108 – 043009.

Distinguishing reef acidification processes: Controls on Conch Reef pH by ambient water column variability versus benthic boundary layer processes. Aquarius Reef Base at the University of North Carolina Wilmington. Lead PIs: Niels Lindquist and Chris Martens; USF subcontract; PHM and B. Byrne, co-PIs): \$22,499. 05/08-12/09.

Foraminiferal Assemblages Analysis. U.S. EPA contract, sole PI; \$35,025; 08/26/08-8/29/10

Distinguishing reef acidification processes: Controls on Conch Reef pH by ambient water column variability versus benthic boundary layer processes. Aquarius Reef Base at the University of North Carolina Wilmington (flow through from NOAA). Lead PIs: Niels Lindquist and Chris Martens; USF subcontract; PHM and B. Byrne, co-PIs): \$22,499. Project period: 5/09-5/10: \$22,499.

Monitoring benthic habitats on the West Florida Slope using benthic foraminifera and sediment geochemistry. Florida Institute of Oceanography: W. Hogarth PI. Subcontract to: B.P. Flower, P. Hallock Muller, David Hollander (USF); L. Collins (FIU), G. Brooks, D. Hastings, Eckerd College.

Toxicity of Deepwater Horizon Oil and Dispersants on Florida's Reef Biota. Florida Institute of Oceanography: Florida Coastal Sentinels, W. Hogarth PI. Subcontract to: P. Hallock Muller and J. Torres. Total: \$173,449. Project Period: 8/13/2010-8/12/2012.

Harmful Algal Bloom Liason. Florida Fish and Wildlife Conservation Commission. PI: P. Hallock Muller, \$66,599/yr, \$332,995 total; Project Period: 10/4/2010 -6/30/2015

Published Abstracts

- Muller, P. Hallock. 1975. Sediment production by shallow-water benthic foraminifera at selected sites around Oahu, Hawaii. First International Symposium on Benthonic Foraminifera, Halifax, Nova Scotia.
- Hallock, P. 1979. Carbonate production by selected large, benthic foraminifera on two Pacific coral reefs. Geological Society of America Annual Meeting, San Diego, California. GAAPBC 11:437.
- Hallock, P. 1980. The application of ecologic studies of living, algal symbiont-bearing foraminifera to paleoecologic interpretation. American Association of Petroleum Geologists Annual Meeting, Denver, Colorado. AAPG Bull. 47:716-717.
- Hallock, P. 1980. Distribution of selected species of living benthic foraminifera on two Pacific coral reefs. Geological Society of America Annual Meeting, Atlanta, Georgia. GAAPBC 12:441.
- Rottger, R. and P. Hallock. 1980. Test shape analysis of *Heterostegina depressa* from Hawaii and from laboratory cultures. Cytological and ecological aspects of morphogenesis and structure of Recent and fossil protistan skeletons workshop, Tubingen, Federal Republic of Germany.
- Hallock, P. 1981. An analysis of the energetics of algal symbiosis. Geological Society of America Annual Meeting, Cincinnati, Ohio. GAAPBC 13:466.
- Correa, A. C., G. I. Ballew, K. R. Sundberg, J. A. Drahovzal, P. G. Harrison, H. R. Hopkins, H. R. Lang, S. M. Nicolais, P. Hallock and E. M. Wingo. 1982. Summary of NASA-GEOSAT oil and gas site, Coyanosa, Texas. American Society of Photogrammetry Annual Meeting.
- Hallock, P. 1982. Evolution and extinction in larger foraminifera. North American Paleontological Convention, Montreal, Canada. Journal of Paleontology 56:(suppl. to No. 2):12.
- Hallock, P. 1982. Nutrient influence of evolution and extinction in carbonate-producing organisms. Geological Society of America Annual Meeting, New Orleans, Louisiana. GAAPBC 14:505.
- Hallock, P. 1983. Larger foraminifera as depth indicators in carbonate depositional environments. American Association of Petroleum Geologists Annual Meeting. AAPG Bull. 67:477-478.
- Hallock, P. 1983. Why are larger foraminifera large? Geological Society of America Annual Meeting, Indianapolis, Indiana. GAAPBC 15:590.
- Cotter, T. and P. Hallock. 1984. Population studies of *Archaias angulatus* from Largo Sound, Florida. Advances in Reef Science Meeting, Miami, Florida, p. 29.
- Hallock, P. 1984. Embryon size in larger foraminifera: predictions and observations. Geological Society of America Annual Meeting, Reno, Nevada. GAAPBC 16:528.
- Hallock, P. 1984. Foraminifera of Indo-Pacific and Caribbean Reefs: a comparison of selected algal symbiont-bearing taxa. Advances in Reef Science Meeting, Miami, Florida, p. 50-51.
- Hallock, P. 1985. Ecologic and evolutionary implications of large size in foraminifera. VII International Congress of Protozoology, Nairobi, Kenya, June, p. 143. (Hallock, P. 1985. A comparison of algal symbiont-bearing foraminiferal faunas of Indo-Pacific and Caribbean reefs. VII International Congress of Protozoology, Nairobi, Kenya, p. 55.
- Hallock, P. 1985. Drowned reefs and carbonate platforms: reef-community disruption by nutrients provides a clue to the paradox. Geological Society of America Annual Meeting, Orlando, Florida. GAAPBC 17:602.
- Hallock, P. 1986. Musings on functional morphologies in larger foraminifera. Fourth North American Paleontological Congress, Boulder, Colorado, p. A19.
- Hallock, P. 1986. Bioerosion as an indicator of nutrient availability in carbonate depositional environments. Fourth North American Paleontological Congress, Boulder, Colorado, p. A18.
- Hallock, P. 1986. Paleoceanographic nutrients and the evolution of larger reef foraminifera. Second International Conference on Paleoceanography, Woods Hole, Massachusetts, Abstracts with program, p. 39.
- Hallock, P. 1986. Notes on coiling direction in trochospiral foraminifera, Benthos '86-An International Symposium on Benthic Foraminifera, Geneva, Switzerland, p. 42.
- Hallock, P. 1986. Diversification in algal symbiont-bearing foraminifera: Response to oligotrophy? Benthos '86-An International Symposium on Benthic Foraminifera, Geneva, Switzerland, p. 41-42.
- Hallock, P. and S. W. Snyder. 1986. Nutrient control of biogenic sedimentation in low-latitude, shallow-water environments. SEPM Annual Mid-year Meeting, Raleigh, North Carolina, Abstracts v. III, p. 49.
- Lee, J. J. and P. Hallock. 1986. Algal symbiosis as the driving force in the evolution of larger foraminifera. The Third International Colloquium on Endocytobiology, New York.

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- Hallock, P., G. A. Vargo, A. C. Hine, N. J. Triffleman, K. J. Boomer, W. C. Jaap and D. F. Belknap. 1987. Platforms of the Nicaraguan Rise: Examples of suppression of carbonate accumulation by excess nutrients? Geological Society of America Annual Meeting, Phoenix, Arizona.
- Hine, A. C. and P. Hallock. 1987. Carbonate platforms of the Nicaraguan Rise: Overview. Geological Society of America Annual Meeting, Phoenix, Arizona. GAAPBC 19:703.
- Triffleman, N. J., P. Hallock and A. C. Hine. 1987. Morphology, sediments, and depositional environments of a partially drowned carbonate platform: Serranilla Bank - Southwest Caribbean Sea. Geological Society of America Annual Meeting, Phoenix, Arizona. GAAPBC 19:871.
- Hallock, P. 1988. Interoceanic differences in algal symbiont-bearing foraminifera: A result of nutrient supplies? 6th International Coral Reef Symposium, Townsville, Australia (abstracts), p. 40.
- Hallock, P. and J. A. Elrod. 1988. Oceanic chlorophyll around carbonate platforms in the western Caribbean: Observations from CZCS data. 6th International Coral Reef Symposium, Townsville, Australia (abstracts), p. 40.
- Hallock, P., A. C. Hine and J. L. Gonzales. 1988. Porifera: A substratum for the development of rhodoliths. Geological Society of America Annual Meeting, Denver, Colorado. GAAPBC 20:A339.
- Hallock, P., G. A. Vargo, A. C. Hine, N. J. Triffleman, W.C. Jaap and J. A. Elrod. 1988. Suppression of coral reef development by excess nutrients: Examples on the Nicaraguan Rise? Association of Island Marine Laboratories of the Caribbean, 21st Annual Meeting, Sarasota, Florida.
- Hine, A. C., P. Hallock, H. T. Mullins, W. C. Jaap, M. W. Harris and D. F. Belknap. 1988. Geologic setting of large *Halimeda* bioherms in the Caribbean Sea. 6th International Coral Reef Symposium, Townsville, Australia (abstracts), p. 44.
- Hine, A. C., M.W. Harris, P.Hallock, H.T. Mullins, D.F. Belknap and A. C. Neumann. 1988. Structure, stratigraphy, and sedimentation of a current-dominated open seaway within a carbonate platform complex: Miskito Channel, Nicaraguan Rise, SW Caribbean Sea. Geological Society of America Annual Meeting, Denver, Colorado. GAAPBC 20:A70.
- Triffleman, N. J., P. Hallock, A.C. Hine, G.A. Vargo and J. Garrett. 1988. Serranilla Bank (southwestern Caribbean): An enigma of chloralgal sedimentation in an oceanic setting. Geological Society of America Annual Meeting, Denver, Colorado. GAAPBC 20:A209.
- Hallock, P. 1989. An environmental mechanism that may contribute to different average survivorship curves for living and extinct taxa. Geological Society of America Annual Meeting, St. Louis, Missouri. GAAPBC 21:A207.
- Hallock, P. and I.Premoli-Silva. 1989. Correlation between carbonate-platform benthos and planktonic foraminiferal evolution through Paleogene paleoceanographic changes. Abstracts of Third International Conference on Palaeo-Oceanography, Cambridge, England. Blackwell Scientific Publ., London, p. 8.
- Harris, M. W., A. C. Hine, H. T. Mullins and P. Hallock. 1989. Echo character (3.5 kHz) along a current-dominated open seaway, Miskito Channel, Nicaraguan Rise, Caribbean Sea. Geological Society of America Annual Meeting, St. Louis, Missouri. GAAPBC 21:A329.
- Peebles, M. W., P. Hallock and A. C. Hine. 1989. Sedimentology and taphonomy of Thunder and Lightning Knolls, two small carbonate platforms, Nicaraguan Rise, southwest Caribbean Sea. Geological Society of America Annual Meeting, St. Louis, Missouri. GAAPBC 21: A293.
- Smith, K., and P. Hallock. 1989. Dormancy in benthic foraminifera: Possibilities and implications. Geological Society of America Annual Meeting, St. Louis, Missouri. GAAPBC 21:A46.
- Hallock, P. 1990. Nutrient flux as a regulating mechanism for reef development: Modern and Cretaceous models. SEPM Research Conference on Cretaceous Models. SEPM Research Conference on Cretaceous Resources, Events and Rhythms, Denver, Colorado. Program and Abstracts.
- Hallock, P., and A. C. Hine. 1990. Sponge-algal bioherms on the western platforms of the Nicaraguan Rise, Southwestern Caribbean. American Association of Petroleum Geologists Annual Convention, San Francisco. AAPG Bulletin 74(5):668.
- Hallock, P., A. C. Hine, M. W. Harris, N. J. Triffleman and M. W. Peebles. 1990. Bimodality in Coral and Algal Carbonate Production: An Example from the Nicaraguan Rise, Western Caribbean. Geological Society of America 1990 Annual Meeting, Dallas, Texas. GAAPBC 22:A130.

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- Hallock, P., W. C. Jaap, K. Boomer-Donnelly and A. C. Hine. 1990. Research Diving on Remote Shoals of the Nicaraguan Rise, Southwest Caribbean. Proceedings of the 10th Annual Scientific Diving Symposium, Diving for Science...1990, W. C. Jaap, ed., American Academy of Underwater Sciences, St. Petersburg, Florida, p. 139.
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- Dupont, J M ; Hallock, P ; Beaver, C ; Jaap, W C. 2006. Effects of the 2005 red tide on epibenthic macroinvertebrates and fish communities in the eastern Gulf of Mexico. American Society for Limnology and Oceanography Meeting, Victoria, BC, June 2006;
<http://www.sgmeet.com/aslo/victoria2006/sessionschedule.asp?SessionID=TS-E03>
- Hallock, P. and Crevison, H. 2006. Larger Foraminifers as Indicators of Global Environmental Change. Geological Society of America Annual Meeting, Philadelphia, October 2006.
- Hallock, P., D.E. Williams, E.M. Fisher, S.K. Toler. 2006. Bleaching in Foraminifera with Algal Symbionts: Implications for Reef Monitoring and Risk Assessment. FORAMS 2006, Natal, Brazil, September 2006.
- Hallock, P., Carnahan, E.A., Daniels, C., Fisher, E.M. 2006. Distinguishing Local from Global Stresses: Three Low-Cost Tools for Coral-Reef Monitoring and Risk Assessment. 14th International Conference on Environmental Bioindicators and the 2nd Annual Meeting of the International Society for Environmental Bioindicators, April 24-26, 2006, Linthicum, MD. USA.
- Ayoub*, L., Coble, P., Hallock, P. 2007. Ultraviolet Radiation and Colored Dissolved Organic Material in the Florida Keys: Can Solar Irradiance Provide Clues to Managing Coral Reefs. Charlotte Harbor National Estuary Program CDOM workshop, May 30, 2007.
- Crevison*, H. L., Hallock, M., 2007, Morphological Abnormalities In *Archaias angulatus* (Foraminifera) From The Florida Keys (USA): An Indication Of Environmental Change? IGERT Student Symposium, Tampa, Florida.
- Crevison*, H. L., Hallock, P. 2007, Morphological Abnormalities in *Archaias angulatus* from the Florida Keys: An Indication of Environmental Change? ASLO Conference, Santa Fe, New Mexico.
- Crevison*, H.L., Hallock, P. 2007. Morphological abnormalities in *Archaias angulatus* (Foraminifera) from the Florida Keys (USA): An indication of environmental change? Geological Society of America Annual Meeting, Denver, CO, October 2007.
http://gsa.confex.com/gsa/2007AM/finalprogram/abstract_130433.htm
- Hallock, P., Pomar, L. 2007. Understanding the Role of Paleooceanography in Diversification and Extinction in Perforate Larger Benthic Foraminifers Using Morphologic Evidence for Algal Symbiosis. Geological Society of America Annual Meeting, Denver, CO, October 2007.
http://gsa.confex.com/gsa/2007AM/finalprogram/abstract_128304.htm
- McCloskey*, B. J. and Hallock, P. 2007. Foraminiferal assemblage responses to naturally-induced high arsenic concentrations in a shallow-water hydrothermal system in northeastern Papua New Guinea. European Geosciences Union General Assembly, 15-20 April, Vienna, Austria, EGU2007-A-08541 (<http://www.cosis.net/abstracts/EGU2007/08541/EGU2007-J-08541.pdf>)
- Ramirez*, A., Ayoub*, L., Duncan Baker*, R., Hallock*, P. 2007. Foraminifers as indicators of photo-oxidative stress: Comparing bleaching prevalence in foraminifers with rates of decline in coral cover in the Florida Keys, USA. Geological Society of America Annual Meeting, Denver, CO, October 2007. http://gsa.confex.com/gsa/2007AM/finalprogram/abstract_130274.htm
- Ayoub*, L., Hallock, P., Coble, P. 2008. Solar irradiance and coral reefs: Modeling and management tools. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 135.

Published Abstracts (cont.)

- Dupont*, J., Hallock, P., Jaap, W. 2008. Benthic and fish community succession after the 2005 red tide disturbance in the eastern Gulf of Mexico: Are artificial reefs effective mitigation tools. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 223.
- Fisher-Moses*, E., Woodley, C., Fauth, J., Hallock, P. 2008. Differentiating between global versus local stressors in Florida Keys coral reef ecosystems based on a cellular diagnostic system and coral regeneration rates. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 433.
- Hallock, P. 2008. Goldilocks and the Three Biogenic Carbonate Minerals: What Determines “Just Right”? Geological Society of America Annual Meeting, Houston, TX, October 2008.
- Hallock, P., Pomar, L. 2008. Cenozoic Photic Reef and Carbonate Ramp Habitats: A New Look Using Paleooceanographic Evidence. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 7.
- Hallock, P., Robbins, L.L., Peters, M. 2008. Are subtropical calcareous green algae responding to ocean acidification? Ocean Sciences Meeting, March 2-7, 2008, <http://aslo.org/orlando2008/files/2008osm-abstracts.pdf>, p. 150.
- Martinez-Colon*, M., Green-Ruiz, C., Hallock, P. 2008. Benthic Foraminiferal Assemblages as Bio-Indicators of Potentially Toxic Elements in Puerto Rico. Geological Society of America Annual Meeting, Houston, TX, October 2008.
- Moustafa, Z., Hallock, P. 2008. Resilience of a Red Sea Fringing Coral Reef under Extreme Environmental Conditions: A Four-Year Study. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 435.
- Peters*, M., Palandro, D., Hallock, P., Shinn, E. 2008. Assessing patterns of patch reef distributions in the lower Florida Keys, USA, Using Ikonos satellite imagery. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 405.
- Pomar, L., Hallock, P. Mesozoic and Cenozoic carbonate factories: reexamining responses to global-scale changes. Geophysical Research Abstracts, Vol. 10, EGU2008-A-00000, 2008, EGU General Assembly 2008.
- Ramirez*, A., Daniels, C., Hallock, P. Application of the SEDCON Index on Patch Reefs in Biscayne National Park, Florida. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, FL. p. 279.
- Robbins, L.L., Knorr, P., Hallock, P., Yates, K. 2008. Comparison of *Halimeda* aragonite from 40 years of archived field samples with specimens grown in high pCO₂ seawater. The Ocean in a High CO₂ World Meeting, Monaco, Oct. 6-8, 2008. <http://www.highco2world-ii.org/main.cfm?cid=975&nid=10577>
- Hallock, P. 2009. Symbiont-bearing foraminifers as bioindicators for coral reefs: Uses and limitations. Geological Society of America, Annual Meeting, Portland, OR, 10/20/09 http://gsa.confex.com/gsa/2009AM/finalprogram/abstract_161227.htm
- Hallock, P. 2009. From a one-room country school on the prairie to two decades as a marine science professor: the unlikely saga of a pre-Title IX girl. Geological Society of America, Annual Meeting, Portland, OR, 10/20/09. http://gsa.confex.com/gsa/2009AM/finalprogram/abstract_161214.htm
- Hallock, P. 2009. Will global environmental changes influence production and preservation of larger benthic foraminiferal shells in carbonate sediments? Geological Society of America, Annual Meeting, Portland, OR, 10/21/09. http://gsa.confex.com/gsa/2009AM/finalprogram/abstract_161220.htm
- Martinez-Colon*, M., Bortnak**, D., Williams*, R., Hallock, P. 2009. Morphometric analysis of the shells of *Ammonia* spp. from a polluted estuary, Torrecilla Lagoon, Puerto Rico. Geological Society of America, Annual Meeting, Portland, OR, 10/19/09. http://gsa.confex.com/gsa/2009AM/finalprogram/abstract_162030.htm
- Crevison Souder*, H., Hallock, P., Byrne, R., McCloskey*, B.J. 2010. Shell anomalies in a population of *Archaia angulatus* from Florida (USA) sampled in 1982-83 and 2006-07. Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany
- Hallock, P. 2010. Evidence for environmental stress in *Amphistegina* shells. Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany.

Published Abstracts (cont.)

- Hallock, P., McCloskey, B.J., Engel, B., Price, R., Pichler, T. 2010. Influence of a Shallow-Water Hydrothermal Vent System at Ambitle Island, Papua New Guinea, on Tropical Foraminiferal Assemblages. Geological Society of America, Annual Meeting, Denver, CO, 11/01/10. http://gsa.confex.com/gsa/2010AM/finalprogram/abstract_181780.htm
- Knorr, P.O., Robbins, L.L., Hallock, P. 2010. Experimental observations of the benthic foraminifer *Amphistegina gibbosa* maintained under elevated pCO₂. Ocean Sciences Meeting, 22-26 February 2010, Portland, Oregon.
- McIntyre-Wressnig, A., Bernhard, J.M., McCorkle, D.C., Hallock, P. 2010. Impact of elevated pCO₂ on survival and test structure of benthic foraminifera. Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany.
- McIntyre-Wressnig, A., Bernhard, J.M., McCorkle, D.C., Hallock, P. 2010. Impact of future elevated atmospheric pCO₂ and ocean acidification on benthic foraminifera. Ocean Sciences Meeting, 22-26 February 2010, Portland, Oregon.
- McIntyre-Wressnig, A., Bernhard, J.M., McCorkle, D.C., Hallock, P. 2010. Impact of elevated pCO₂ on survival and test structure of benthic foraminifera. Geological Society of America, Annual Meeting, Denver, CO, 11/01/10. http://gsa.confex.com/gsa/2010AM/finalprogram/abstract_178368.htm
- Martínez-Colón, M., Hallock, P. 2010. Observations of growth of *Ammonia* in elevated copper concentrations: Do heavy metals really cause shell deformities? Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany
- Triantaphyllou, M.V., Dimiza, M.D., Koukousioura, O., Katsis, D., Hallock, P. 2010. Life cycle of symbiont-bearing foraminifer *Amphistegina lobifera* in coastal ecosystems of Aegean Sea (Greece, E. Mediterranean). Forams 2010- International Symposium on Foraminifera, September 5 -10, 2010, Bonn, Germany.

Invited Lectures

- January 1978 Carbonate production on coral reefs by benthic foraminifera. Department of Geology, Hebrew University of Jerusalem, Israel.
- January 1978 Trends in test shape in symbiont-bearing foraminifera. Department of Oceanography, Hebrew University of Jerusalem, Israel.
- March 1978 Sediment production on coral reefs by benthic foraminifera. Institute of Historical Geology and Paleontology, University of Copenhagen, Denmark.
- August 1982 Evolution and extinction in larger foraminifera. Symposium on Paleobiology of Foraminifera, North American Paleontological Convention, Montreal, Canada.
- October 1982 Evolution and extinction in carbonate-producing organisms. San Angelo Geological Society, San Angelo, Texas.
- March 1983 Evolution and extinction in carbonate-producing organisms. Permian Basin Section - Society of Economic Paleontologists and Mineralogists, Midland, Texas.
- April 1983 Algal symbiosis: Implications for micropaleontology. Society of Economic Paleontologists and Mineralogists - Marine Micropaleontology Research Group, AAPG-SEPM Annual Meeting, Dallas, Texas.
- January 1985 Why are larger forams large? Geology Department Colloquium, University of South Florida, Tampa.
- June 1985 Ecologic and evolutionary implications of large size in foraminifera. VII International Congress of Protozoology, Nairobi, Kenya.
- February 1986 How nutrients kill coral reefs. Department of Geology Seminar, University of South Carolina, Columbia.
- February 1986 How nutrients kill coral reefs. Department of Geology - Curriculum in Marine Science Joint Seminar, University of North Carolina, Chapel Hill.
- August 1986 Bioerosion as an indicator of nutrient availability in carbonate depositional environments. Fourth North American Paleontological Convention, Symposium on ecological and evolutionary implications of taphonomic processes, Boulder, CO.
- August 1986 Musings on functional morphologies in larger foraminifera. Fourth North American Paleontological Convention, Symposium on functional morphology in foraminifera, Boulder, Colorado.
- September 1986 Notes on coiling direction in trochospiral foraminifera. Plenary session on quantitative methods, Benthos '86, An International Symposium on Benthic Foraminifera, Geneva, Switzerland.
- September 1986 Diversification in algal symbiont-bearing foraminifera: a response to oligotrophy? Plenary session on understanding benthic environments and the application to exploration for mineral resources, Benthos '86, An International Symposium on Benthic Foraminifera, Geneva, Switzerland.
- September 1986 Paleooceanographic nutrients and the evolution of larger reef foraminifera. Second International Conference on Paleooceanography, Symposium on evolution and the marine record, Woods Hole, Massachusetts.
- September 1986 Nutrient control of biogenic sedimentation in low-latitude, shallow-water environments. SEPM Mid-Year Meeting, Symposium on reefs in time and space revisited, Raleigh, North Carolina (with S. W. Snyder, presented by S. W. Snyder). Invited Lectures (cont).
- July 1987 Presented two short communications to the Working Group on Evolution and Extinction of Oceanic Biota at COSOD II (meeting on the future of Scientific Ocean Drilling) in Strasbourg, France (participation by invitation).
- July 1987 How nutrients kill coral reefs. Laboratory for Oceans, NASA Goddard Space Flight Center, Greenbelt, Maryland.
- July 1987 Chlorophyll Fluctuations in Oceanic Waters in the Vicinity of the Nicaraguan Rise: Summary of Activities under 1987 NASA/ASEE Summer Faculty Fellowship Program, NASA Goddard Space Flight Center, Greenbelt, Maryland.

Invited Lectures (cont).

- September 1988 Recognizing paleonutrient influence on carbonate platform drownings in the geologic record. Global Sedimentary Geology Program: Cretaceous Resources, Events and Rhythms - Working Group 4: Development and Demise of Carbonate Platforms, Marseilles, France.
- March 1989 Platforms of the Nicaraguan Rise: Examples of the sensitivity of carbonate sedimentation to excess nutrients. University of South Florida, Department of Geology Colloquium.
- March 1989 How nutrients kill coral reefs. University of Tennessee, Department of Geological Sciences Colloquium.
- April 1989 How nutrients kill coral reefs. University of Florida, Department of Geology Colloquium.
- August 1989 Coral reefs. St. Petersburg Historical Society, St. Petersburg, Florida.
- September 1989 Correlation between carbonate-platform benthos and planktonic foraminiferal evolution through Paleogene paleoceanographic changes. 3rd International Conference on Paleoceanography (ICP III), Cambridge, England.
- November 1989 Nutrification Impact on Fishery Habitats. Gulf Coast Fishery Management Council, Florida/Alabama Habitat Protection Advisory Panel, Tampa, Florida.
- January 1990 Nutrient excess and the demise of coral reefs and carbonate platforms. University of Texas at Dallas, Geosciences Colloquium.
- October 1990 How nutrients kill coral reefs. Florida State University, Oceanography Colloquium.
- October 1991 Bimodality in coral and algal carbonate production: An example from the Nicaraguan Rise, western Caribbean. UNOCAL, Brea, California.
- November 1991 Coral reefs and environmental change: A global perspective. Wesleyan University, Middletown, Connecticut.
- February 1992 Coral reefs: Delicate Balance, Precarious Prospects. Design Center of the Americas: Americus Conference, Dania, Florida.
- April 1992 Trophic Resources and Evolution: Examples from Foraminifera. University of Chicago, Chicago, Illinois.
- April 1992 Bimodality in Coral and Algal Carbonate Production: An Example from the Nicaraguan Rise. University of Chicago, Chicago, Illinois.
- April 1992 Bimodality in Coral and Algal Carbonate Production: Space for Rudists? University of Wisconsin, Madison, Wisconsin.
- July 1992 Bleaching in a Reef-Dwelling Foraminifer, *Amphistegina gibbosa*. University of Hawaii, Honolulu, Hawaii.
- August 1992 Bimodality in Coral/Algal Carbonate Platforms: Ecospace for Rudists? Global Sedimentary Geology Program (GSGP) Cretaceous Resources, Events, and Rhythms (CRER) Global Geology of Cretaceous Reefs and Carbonate Platforms Working Group 4, Tremp, Spain.
- December 1992 Short Course on the Influence of Nutrients on Benthic Communities and the Effects on Carbonate Production:
Lecture 1: Nutrients and Modern Reefs
Lecture 2: Nutrients and Carbonate Sedimentation
Lecture 3: Nutrients, Paleoceanography and Evolution
Catalan Institute of Natural History, Barcelona, Spain
- August 1993 Ocean mixing, paleoproductivity, and biomineralization: How useful are icehouse-world models for greenhouse-world questions? Invited Plenary Address for Paleoproductivity and Ocean Mixing, SEPM Theme Meeting, August 8-12, 1993, Pennsylvania State University, University Park.
- January 1995 *Amphistegina* Densities as a Practical, Reliable, Low-Cost Indicator of Coral Reef Vitality. USEPA/NOAA Sponsored Symposium on Methods for Assessing the Biota and Habitat Conditions of Coral Reefs. Annapolis, Maryland.
- June 1995 Florida's Coral Reefs: Do They Have a Future?, University of South Florida, St. Petersburg, Florida

Invited Lectures (cont).

- September 1996 Bleaching in Reef-Dwelling Foraminifera. Department of Geology and Geophysics 1996-97 L.J. Wilbert Lecture Series, Louisiana State University, Baton Rouge, Louisiana.
- November 1996 Nutrients, Coral Reefs and Carbonate Sedimentation Revisited. Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Raleigh, North Carolina.
- February 1997 Bleaching in Reef-Dwelling Foraminifera. Department of Geology, University of Georgia, Athens, Georgia.
- February 1997 Bleaching in Reef-Dwelling Foraminifera: Is Ozone Depletion the Cause? Cause Seminar Series, Department of Geosciences and Earth System Science, Penn State University, University Park, Pennsylvania.
- May 1997 Series of lectures presented to Petrobras and City University, Rio de Janeiro, Brazil, May 28-30, 1997
Lecture 1. Coral Reef Decline: Causes and Implications
Lecture 2. Nutrients and Carbonate Sedimentation
Lecture 3. Larger foraminifera as Environmental Indicators for Coral Reefs
Lecture 4. Larger Foraminifera as Tools for Paleoenvironmental Interpretation
- February 1998 Habitats of Modern Larger Foraminifera: Taxonomic, Depth and Regional Comparisons. Tertiary to Recent Larger Foraminifera: Their Depositional Environments and Importance as Petroleum Reservoirs - Conference/Workshop. Kingston University, UK.
- September 1998 Larger Foraminifera as Indicators of Coral Reef Vitality. Department of Geological Sciences, University of Texas at Austin.
- September 1998 Nutrients and Carbonate Sedimentation. Department of Geological Sciences, University of Texas at Austin.
- September 1998 Senior Women in Academia: What are Role Models Worth? Association for Women Geoscientists, Lone Star Chapter, Austin Texas.
- January 1999 Senior Women in Academia: What are Mentors and Role Models Worth? Women's Campus Collective, University of South Florida-St. Petersburg.
- February 1999 Nutrients and Carbonate Sedimentation. Department of Geology, University of South Florida, Tampa.
- March 1999 Senior Women in Academia: What are Mentors and Role Models Worth? Association for Women Geoscientists, South Florida Chapter - Tampa.
- April 1999 Senior Women in Academia: What are Mentors and Role Models Worth? American Association for University Women Clearwater, Florida Chapter
- April 1999 Careers Panelist, Feminist Majority, New College/USF Sarasota Campus
- April 1999 Coral Reefs, MarineQuest, Florida Department of Environmental Protection, St. Petersburg, FL.
- May 1999 Coral Reefs and Global Change. U.S. Environmental Protection Agency Conference on Global Change: What does it mean for the Florida Keys? Marathon, FL.
- October 1999 Senior Women in Science: What are Mentors and Role Models Worth? Association for Women Geoscientists, Denver, Colorado.
- November 1999 Coral Reefs, Nutrients and Global Change, Department of Geology, University of Montana, Missoula.
- November 1999 Senior Women in Academia: What are Mentors and Role Models Worth? American Association of University Women, Vero Beach Chapter.
- January 2000 Global Change: Implications for Florida's Reefs. Departments of Biology and Geology, Kansas State University, Manhattan, Kansas.
- January 2000 Seminar: "Global Change: Implications for Florida's Reefs" and 1-day Workshop: "Larger Foraminifera as Tools for Paleoenvironmental Interpretation", Department of Geology, Wichita State University, Wichita, Kansas, sponsored by the WSU Geology Club/AAPG Student Chapter/Sigma Gamma Epsilon (with funding from the Association for Women Geoscientists).

Invited Lectures (cont).

- March 2000 "The 1998 Class Action Gender Discrimination Case Against the University of South Florida: The Data and the Outcome" To: The Florida International University Chapter of the United Faculty of Florida, Miami, Florida.
- March 2000 "Larger Foraminifera as Indicators of Reef Vitality". Department of Geology Seminar, Florida International University, Miami, Florida.
- April 2000 "Senior Women in Academia: What are Mentors and Role Models Worth?" To: American Association of University Women - Naples Beach Chapter, Naples, FL.
- June 2000 "Coral Reefs in the 21st Century: Is the past the Key to the Future?" 10th Symposium on the Geology of the Bahamas, San Salvador, Bahamas.
- August 2000 Foraminifera as Bioindicators in Coral Reef Ecosystems: The FoRAM Protocol. Keynote Speaker at AMEP-2000, Application of Micro and Meioorganisms to Environmental Problems, Winnipeg, Manitoba, Canada, August 28-31, 2000.
- October 2000 "Coral Reefs in the 21st Century: Is the past the Key to the Future?" Department of Geology, Kent State University, Ohio.
- October 2000 "Senior Women in Academia: What are Mentors and Role Models Worth?" Kent State University, Ohio.
- November 2000 "Global Change: Implications for Florida's Coral Reefs", Marine Sciences Day, Phi Theta Kappa International Honor Society, St. Petersburg Junior College – Clearwater Campus.
- April 2001 "Coral Reefs are Dying Worldwide. Local, regional and global threats to reefs", Earth Day, Williams Park, St. Petersburg, Florida.
- May 2001 "Senior Women in the Sciences: What are Mentors and Role Models Worth?" Professional Seminar, Department of Geology, University of Massachusetts at Amherst.
- May 2001 "Symbiont-Bearing Foraminifera: Harbingers of Global Change?", Organismic and Evolutionary Biology Seminar, University of Massachusetts at Amherst.
- May 2001 "Adventures of "our own" AWG Marine Scientist On-board the Joides Resolution", South Florida Chapter, Association for Women in Science.
- April 2001 Foraminifera as Bioindicators in Coral Reef Ecosystems. USEPA-NCER Science Seminar Series, Washington, DC.
- September 2002 Micro- and Meiobiota in Environmental Monitoring and Risk Assessment of Coral Reefs: Developing Tools for the Toolbox. Plenary Address, EMMM'2002, The Third International Congress " Environmental Micropaleontology, Microbiology and Meiobenthology", Vienna, Austria.
- October 2002 Hallock, P. 2002. Foraminifera as Bioindicators in Coral Reef Ecosystems. Geological Society of America Annual Meeting, Denver, CO.
- March 2003 "Coral Reefs in the 21st Century: Is the past the Key to the Future?" Hosted by Marine Science Program, University of California at Santa Barbara.
- March 2003 "Senior Women in Academia: What are Mentors and Role Models Worth?" WISE, University of California at Santa Barbara.
- April 2003 Invited Lecture: From Satellites to Molecules: A Multi-scale Approach to Environmental Monitoring and Risk Assessment of Coral Reefs. KUDOS series, Science Journalism Center, University of South Florida – St. Petersburg.
- September 2003 "Environmental Monitoring and Risk Assessment of Coral Reefs: A Multi-Scale Approach". Department of Environmental Studies Colloquium, Emory University, Atlanta, GA.
- September 2003 "Senior Women in Academia: What are Mentors and Role Models Worth?", Emory University, Atlanta, GA.
- September 2003 Invited Panelist, Where are the Women Geoscientist Full Professors" Workshop sponsored by NSF-Advance Program and AWG Foundation, Washington, DC.
- October 2003 Invited Panelist: Women in the Workplace Series: Women in Academia. Campus Women's Collective, University of South Florida, St. Petersburg, FL.

Invited Lectures (cont).

January 2005	Distinguishing Local from Global Stresses: Low-Cost Tools for Reef Monitoring and Risk Assessment. Brown-bag seminar, Department of Geology, University of Missouri, Kansas City, Missouri. Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture, University of Missouri, Kansas City, Missouri.
February 2005	Environmental Monitoring and Risk Assessment of Coral Reefs: A Multi-Scale Approach. Fort Johnson Marine Science Seminar Series, Charleston, SC
February 2005	Distinguishing Local from Global Stresses: Low-Cost Tools for Reef Monitoring and Risk Assessment. AWG Distinguished Lecture, University of Utah, Salt Lake City, Utah.
December 2005	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture: Geoscience Colloquium, University of Arkansas, Fayetteville.
October 2006	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture: Geoscience Colloquium, Kent State University, Ohio.
November 2006	Bleaching in Foraminifera with Algal Symbionts: Implications for Reef Monitoring and Risk Assessment.
February 2007	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? St. Petersburg Audubon Society, St. Petersburg, Florida..
July 2007	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? Mote Marine Laboratory, Sarasota Florida.
September 2007	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture: Eckerd College, St. Petersburg, Florida.
February 2008	Using Foraminifers as Bioindicators for Coral Reefs and Other Tropical Coastal Environments: the Potential and the Challenges. Plenary Address, Fifth International Conference "Environmental Micropaleontology, Microbiology and Meiobenthology" (EMMM'2008), University of Madras, Chennai, India, February 2008 (delivered remotely by video).
February 2009	Goldilocks and the Three Biogenic Carbonate Minerals: What Determines "Just Right"? Department of Earth Sciences, Florida International University, Miami.
April 2009	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture for UNCW Women in Science and Engineering, University of North Carolina at Wilmington.
April 2009	Senior Women in Academia: What are Mentors and Role Models Worth? AWG Distinguished Lecture for UNCW Women in Science and Engineering, University of North Carolina at Wilmington.
June 2009	Careers in Marine Science - A Lot More than Manatees and Dolphins. 2009 USF Girls STEM Summit, University of South Florida, Sarasota Campus.
October 2009	Goldilocks and the Three Carbonate Minerals: What Determines "Just Right." Sperry Family-Five Colleges speaker for 2009, Williams College, Massachusetts.
October 2009	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? Sperry Family-Five Colleges speaker for 2009, Williams College, Massachusetts.
November 2009	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? Eckerd College Sigma Xi Chapter Speaker.
February 2010	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? Hillsborough Community College Lecture Series.
March 2010	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture for Department of Earth Sciences, Montana State University, Bozeman, MT.
March 2010	Coral Reefs in the 21 st Century: Is the Past the Key to the Future? AWG Distinguished Lecture for Department of Geology, University of Montana, Missoula, MT.

Invited Lectures (cont).

April 2010	Goldilocks and the Three Biogenic Carbonate Minerals: What Determines “Just Right”? Department of Geology, University of Cincinnati, Ohio.
May 2010	Plenary Lecture: Cenozoic Evolution of Benthic Carbonate Systems: Solving Paradoxes to Understand the Past and Predict the Future. International Conference: The Colors of Cretaceous and Paleogene Oceans in Honor of Isabella Premoli Silva, Verbania, Italy.
October 2010	Coral Reefs in the 21st Century: Is the Past the Key to the Future? Aquatic Animal Health Program, University of Florida, Gainesville.

Teaching and Other Instructional Activities

Course Instruction - University of Texas of the Permian Basin (1978-1983):

Junior-level courses: Introduction to Paleontology, Biostratigraphy, Stratigraphy, Minerals and Rocks, Scientific Writing, Statistics.

Senior-level courses: Sedimentology, Micropaleontology, Paleoecology, Oceanography.

Graduate-level courses: Advanced (Carbonate) Stratigraphy, Clastic Depositional Systems.

Course Instruction - University of South Florida (1983-present)

Senior-level courses: Geology of Florida; Coral Reefs: Past, Present, Future

Graduate-level courses: Paleooceanography, Marine Micropaleontology, Biogenic Sedimentation, Marine Paleoecology, Evolution and Ecology of Reef Communities, Foraminiferal Biology, Quantitative Ecology Seminar, Topics in Reef Research, Surveying Natural Populations, Carbonate Sediments and Ocean Acidification, Carbonate Sediments in Geological History.

Selected Lectures in Team-Taught Graduate-level Courses: Biological Oceanography, Geological Oceanography.

Master's Thesis Advisory Committees

University of Texas of the Permian Basin

Jackie L. Carter - Counseling 1982

Linda B. Forward - Life Science 1984 (Co-chair while at UTPB)

University of South Florida - completed

1. David Martin - Marine Science - 1984

2. Jean Hebert - Marine Science - 1985

3. Rosanne Joyce - Marine Science - 1985

4. Joan Hutton - Marine Science - 1986

5. David Mearns - Marine Science - 1986

6. Theresa Cottey - Marine Science (Chair) - 1987

7. Jennifer McNeillie - Marine Science - 1987

8. Nina Triffleman - Marine Science (Chair) - 1989

9. Mark Flock - Marine Science - 1989

10. Helen Talge - Marine Science (Chair) - 1991

11. Michael Harris - Marine Science - 1992

12. Kelly Boomer Donnelly - Marine Science (Chair) - 1993

13. Strawn Knaup Toler - Marine Science (Co-Chair) - 1993

14. Elizabeth Cockey - Marine Science (Chair) - 1994

15. Julie Garrett - Marine Science (Co-Chair) - 1994

16. Jodi Harney - Marine Science (Chair) - 1996

17. Merrie Beth Neeley - Marine Science - 1996

18. Kathryn Fitzsimmons - Marine Science (Chair) - 1996

19. Patty Pratt - Marine Science - 1997

Master's Thesis Advisory Committees (cont.)

University of South Florida - completed

20. Andrea Mosier - Marine Science - 1998
- 21. Dawn Olson - Marine Science (Co-Chair) - 1998**
22. Fred Stengard - Marine Science – 1998
23. Jennifer Cummins - Marine Science - 2000
- 24. Matthew Patterson - Marine Science (Chair) - 2000**
- 25. Nicole Turkson - Marine Science (Chair) – 2000**
26. David Palandro – Marine Science – 2000
27. Elizabeth Merman – Marine Science – 2000
- 28. Heidi Crevison - Marine Science (Chair) – 2001**
- 29. Keith Hackett – Marine Science (Chair) – 2002**
- 30. Ana Coye Hoare – Marine Science (Chair) – 2002**
- 31. Jennifer Jacukiewicz - Marine Science (Chair) – 2002**
- 32. Matthew Lybolt – Marine Science (Chair) – 2003**
33. Elizabeth Tyner - Marine Science – 2003
34. Donna O'Dell Berns -- Marine Science – 2003
35. Stephen Obrochta – Marine Science – 2004
- 36. Kathryn Sheps – Marine Science (Chair) – 2004**
- 37. Robert Walker - Marine Science (Chair) – 2004**
- 38. Michael Callahan – Marine Science (Chair) – 2005**
- 39. Elizabeth Carnahan – Marine Science (Chair) – 2005**
- 40. Camille Daniels – Marine Science (Chair) – 2005**
41. Andrew Farmer – Marine Science – 2005
42. Martin Montes-Hugo – Marine Science – 2005
43. Elizabeth Schlansky Singh – Marine Science – 2005
- 44. Nicole Caesar – Marine Science (Chair) – 2006**
- 45. Dana Gaydos – Marine Science (Chair) – 2006**
- 46. Stephen Gustafson – Marine Science (Chair) – 2006**
47. Inia Soto – Marine Science -- 2006
48. Kate Ciembronowicz – Marine Science – 2007
49. Kris Stair – Marine Science – 2007
- 50. Karen Atwood – Marine Science (Co-chair with G. Vargo) – 2008**
- 51. Rebecca Baker – Marine Science (Chair) – 2008**
- 52. Alexa Ramirez – Marine Science (Chair) – 2008**
- 53. Kelley Anderson – Marine Science (Chair) – 2008**
54. Ian Dow – Marine Science – 2008
- 55. Ryann Williams – Marine Science (Chair) – 2009**
- 56. Brienne Engel – Marine Science (Chair) – 2010**

Master's Thesis Advisory Committees

University of South Florida – in progress

- Michael Drexler – Marine Science (Chair)**
- Adrienne George – Marine Science (Chair)**
- Mark Hartman – Marine Science (Chair)**
- Bridget McCrickard – Marine Science
- Melanie Peters – Marine Science (Chair)**
- Ashley (Butch) Ringelspaugh – Marine Science (Chair)**
- Benjamin Ross – Marine Science (Chair)**
- Kristy Spalding – Integrative Biology
- Christy Stephenson – Marine Science (Chair)**
- Heidi Toomey – Marine Science (Chair)**
- Amy Wallace – Marine Science (Chair)**

Doctoral Dissertation Advisory Committees

University of South Florida - completed

1. Gregg Brooks - Marine Science - 1986
2. James Gibeaut - Marine Science - 1991
3. Evamaria Koch - Marine Science - 1993
4. J. William Louda - Marine Science - 1993
- 5. Mark Peebles - Marine Science (Chair) - 1993**
6. Stephen W. Snyder - Marine Science - 1994
7. David Mallinson - Marine Science - 1995
8. Eunil Lee - Marine Science - 1996
9. Marguerite Toscano - Marine Science - 1996
10. Kimberly Yates - Geology - 1996
11. David Duncan - Marine Science - 1997
12. Dale Griffin - Marine Science - 1999
13. Erin Lipp - Marine Science - 1999
14. Renate Bernstein - Marine Science - 2000
- 15. Thomas Dix - Marine Science (Chair) - 2001**
16. Kim Donaldson - Marine Science - 2001
- 17. Melanie Dotherow-McField - Marine Science (Chair) - 2001**
18. Pamela Sutton - Marine Science - 2001
- 19. Helen Talge - Marine Science (Chair) - 2002**
- 20. Strawn Toler - Marine Science (Chair) - 2002**
- 21. Dana Williams - Marine Science (Chair) - 2002**
22. Bret Jarrett - Marine Science - 2003
23. Anne McMillan-Jackson - Biology - 2003
24. Stephaney Shehane - Marine Science - 2003
25. Lauren McDaniels - Marine Science - 2005
26. David Palandro - Marine Science - 2006
- 27. Elizabeth Fisher - Marine Science (Chair) - 2007**
28. Roy Price - Geology - 2008
29. Armando Hoare - Mathematics/Applied Statistics - 2008
30. Teresa Greely - Science Education - 2008
- 31. Lore Ayoub - Marine Science (Paula Coble, co-chair) - 2009**
- 32. Jennifer Dupont - Marine Science (Chair) - 2009**
- 33. Bryan McCloskey - Marine Science (Chair) - 2009**
- 34. Heidi Souder - Marine Science (Robert Byrne, co-chair) - 2009**
35. James Ivey - Marine Science - 2009
36. David Karlen - Biology - 2010

Doctoral Dissertation Advisory Committees - Other Universities

University of Calcutta (outside reader)

- Mrinal Khanti Ghosh - Zoology - 1988
Sri Sabyasachi Majumdar - Marine Science - 2003

University of Tennessee at Knoxville (outside reader)

- Jonathan Bryan - Geology - 1991

James Cook University, Townsville, Australia (outside reader)

- Melissa Lobegeier - Earth Sciences - 2001

Universitat de les Illes Balears, Spain (co-advisor)

- Guillem Mateu Vincens - Biology - 2007**

Doctoral Dissertation Advisory Committees

University of South Florida – in progress

Camille Daniels – Marine Science

William N Elaesser – Marine Science

Regina Easley – Marine Science

Julia Galkiewicz – Marine Science (Chair, C. Kellogg, Co-chair)

Paul Knorr -- Geology

Michael Martinez – Marine Science (Chair)

Natasha Mendez-Ferrer – Marine Science (Chair)

Sarine Manoukian – Marine Science

Daniel Otis – Marine Science

Patrick Schwing – Marine Science

Paul Suprenand – Marine Science (Chair, B. Flower co-chair)

Kathryn Wirt – Marine Science (Chair)

University of Miami – in progress

Rebecca Albright – RSMAS

Mentor/advisor for CMS Minority Recruitment Programs:

Sloan PhD program: Eddy Flores, Michael Martínez-Colón, Natasha Mendez-Ferrer

NSF-Bridge to Doctorate Program for minority students:

Camille Daniels – 2004-2006

Eddy Flores – 2005-2006

Ryann Williams – 2007-09

Adrienne George – 2009 – present

Natasha Mendez-Ferrer – 2010 - present

Postdoctoral Visiting Researchers Hosted/Supervised:

Niyazi Avsar, Gukurova University, Turkey - 1986

Eulalia Gili-Folch, Autònoma University of Barcelona, Spain - 1991

Bayu Ludvianto, Benkulu University, Indonesia - 1996-97

Timothy Ourbak, CMS-USF Endowed Postdoctoral Researcher – 2007-2008 (co-advisor)

Predocutorial Visiting Researchers (“Sandwich” Scholars) Hosted/Supervised:

Kazuhito Fujuta, Tohoku University, Sendai, Japan – 1998

Maria Elena Chávez-Marrero, Instituto de Oceanología, Reparto Flores, Cuba – 2003

Guillem Mateu Vincens, Universitat de les Illes Balears, Spain – 2003, 2005, 2006

Shi Yu-kun, Nanjing University, China – 2007-08

Antje Funcke, University of Bremen, Germany – 2009-10

Imam Bachtiar, Bogor Agricultural University, Indonesia – 2009-10

Undergraduate Students hosted/supervised:

Michelle Williams, Wichita State University, Wichita, KS – Summer 2000

Jenny Nichols, Environmental Science/Policy, USF, St. Petersburg – Spring 2003

Heidi Gillum, Friends University, Wichita, KS – Summer/Fall 2003

Zaki Moustafa, Duke University – 2008 –

Manuscript published in Proc. 2008 International Coral Reef Symposium

Elise Keister, Center for Industrial & Interdisciplinary Mathematics, USF – 2009

published project in the Undergraduate Journal of Mathematical Modeling: One + Two, <http://shell.cas.usf.edu/math/mug/ujac/f09/>

Denise Bortnak, Department of Integrative Biology, USF – 2009-10

Brittany Lyp, Environmental Science and Policy, STREAMS Fellow –2008--

Brooke Freeberg, Environmental Science and Policy, STREAMS Fellow –2009--

High School Students Hosted/Supervised:

Christy Fascenello, Center for Advanced Technology, Lakewood High School – 1998-99
Courtney Borowsky, Center for Advanced Technology, Lakewood High School – 1998-99

1999 International Science Fair – NASA Internship Award

Zaki Moustafa, Dreyfoos High School of the Arts, West Palm Beach, FL – 2004-08

Science mentor through high school: Zaki was invited to the International Science and Engineering Fair (ISEF) each year and in 2008 was awarded the "The Pulse of the Planet Award" by National Ocean and Atmospheric Association and the INTEL ISEF – Animal Science – 4th Place Grand Award