Pamela Hallock Muller
University of South Florida - College of Marine Science

Curriculum Vitae

General Data

Name: Pamela Hallock Muller
Address: College of Marine Science
University of South Florida
140 Seventh Ave. S.
St. Petersburg, FL 33701
Phone: 727-553-9567
e-mail: pmuller@ usf.edu

Initial Date of USF Employment/August 1983
Initial Rank: Associate Professor
Present Rank: Professor (8/88)
Tenured (6/86)
FAX: 727-553-9189
website: www.marine.usf.edu/reefslab

Education

Institution	Field of Study	Degree	Date
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 nine research cruises, participant on ten others, including IODP Leg 194.
Extensive field experience (40+ 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.
Biology/paleobiology/ecology/paleoecology of larger Foraminifera, including distributions, population dynamics, and functional morphologies, with applications 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, University of Montana
1968	Elected to Phi Kappa Phi Scholastic Honorary, University of Montana
1971-1973	National Science Foundation Traineeship, University of Hawaii
1976	ARCS Foundation Scholarship for a 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-present	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
2002	USF Outstanding Research Achievement Award Recipient
2011-2019	Invited Member, International Scientific Advisory Board for the Leibniz Center for Marine Tropical Marine Research (ZMT), in Bremen, Germany
2012	Elected Fellow, The Paleontological Society
2012	Alfred P. Sloan Foundation Minority Ph.D. Program's Mentor of the Year
2013	Recognized as one of the Top 25 Women Professors in Florida.
2013-14	USF-CMS Graduate Mentor of the Year
2015	Joseph A. Cushman Award for Excellence in Foraminiferal Research
2016	USF Graduate Mentor of the Year
2018	Albert Nelson Marquis Lifetime Achievement Award
2018	Kosove Distinguished Graduate Teaching and Service Award
2018	Hallock & Schlager (1986) named one of ten "Landmark Papers in Carbonate Sedimentology and Stratigraphy" by the American Association of Petroleum Geologists
2019	Raymond C. Moore Medal for Excellence in Paleontological Research, Society for Sedimentary Geology

Professional Organizations and Offices

Cushman Foundation for Foraminiferal Research (Board of Directors 1990-2020; Vice President 1994, 2010; President 1995-96; 2011)
Geological Society of America –Fellow (W.Storrs Cole Award Selection Committee: 2003–15)
Paleontological Society-Fellow (Schuchert Award Committee: 1996–97; Strimple Award Committee: 2013–15; Fellows and Medalist Recommendation Committee: 2016-2017)
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)
Member, Scientific Organizing Committee, Forams 2014 – International Symposium on Foraminifera, Concepcion, Chile, January 2014

Member, Scientific Organizing Committee, Forams 2018–International Symposium on Foraminifera, Edinburgh, Scotland

Editorial Boards:

Associate Editor - *Journal of Foraminiferal Research* (1985–2003)
Associate Editor for Larger Foraminifera – *Journal of Foraminiferal Research* (2004–2014, 2019–)
Editor - *Journal of Foraminiferal Research* (2015–2018)
Editorial Board - *Marine Micropaleontology* (1990–2012)
Editorial Board - *Geology* (1996–1998)

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; Coral Biology and Reef Ecology

Graduate-level courses: Paleoceanography, Marine Micropaleontology, Biogenic Sedimentation, Marine Paleoecology, Evolution and Ecology of Reefs, Foraminiferal Biology, Quantitative Ecology Seminar, Topics in Reef Research, Surveying Natural Populations, Carbonate Sediments and Ocean Acidification, Carbonate Sediments in Geological History, Writing a Scientific Paper

Selected Lectures in Team-Taught Graduate-level Courses: Biological Oceanography, Geological Oceanography, Foundations in Biological and Fisheries Oceanography, Dynamics of Marine Ecosystems

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
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

Master's Thesis Advisory Committees (cont.) - University of South Florida - completed

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
57. Michael Drexler – Marine Science (Chair) - 2011
58. Adrienne George – Marine Science (Chair) - 2011
59. Christy Stephenson – Marine Science (Chair) - 2011
60. Amy Wallace – Marine Science (Chair) - 2011
61. Kathryn Wirt – Marine Science (Chair) – 2011
62. Kristy Menning – Integrative Biology – 2012
63. Bridget McCrickard Mathers – Marine Science (Chair) – 2012
64. Mark Hartman – Marine Science (Chair) – 2012
65. Benjamin Ross – Marine Science (Chair) – 2012
66. Heidi Toomey – Marine Science (Chair) – 2013
67. Kristin Netchy – Marine Science (Chair) – 2014
68. Lucy Bartlett – Marine Science (Chair) – 2014
69. Heather Bender – Geology – 2015
70. Stephanie Lawler – Marine Science—2016
71. **Sean Beckwith – Marine Science (Chair) – 2016**
72. Catherine Smith – Marine Science (Chair) – 2016
73. Jennifer Brizzolara – Marine Science – 2017
74. Kara Wall – Marine Science – 2017
75. Erin Cuyler – Marine Science–2017
76. McKenna Martin – Marine Science (Chair)–2018
77. Katie Davis–Marine Science–2018
78. Christian Gfatter–Marine Science (Chair)–2018
79. Elizabeth Simpson Viau–Marine Science–2019
80. Kate Dubickas–Marine Science (Co-chair)–2019
81. Kyle Amergian–Marine Science (Chair)–2019

Master's Thesis Committees in progress

Megan Ferguson-Marine Science

Master's Thesis Examination Committees - International

1. Martina de Freitas Prazeres, Programa de Pós-Graduação em Oceanografia Biológica, Universidade Federal do Rio Grande, Rio Grande do Sul, Brazil – 2011.
2. Joseane Aparecida Marques, Programa de Pós-Graduação em Oceanografia Biológica, Universidade Federal do Rio Grande, Rio Grande do Sul, Brazil – 2014.
3. Stephanie Vivien Hyman, College of Agriculture, Engineering and Science, University of Kwazulu-Natal, Durban, South Africa – 2015.
4. Roselyn Naidu, University of the South Pacific, Fiji – 2015

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
37. Sarine Manoukian – Marine Science – 2011
38. **Julie Galkiewicz – Marine Science (Chair) – 2011**
39. **Camille Daniels – Marine Science (Co-chair with Mya Breitbart) – 2011**
40. Patrick Schwing – Marine Science – 2011
41. Daniel Otis – Marine Science – 2012
42. **Paul Suprenand – Marine Science (Co-chair with JJ Torres) – 2013**
43. Luis Miranda – Marine Science - 2013
44. Regina Easley – Marine Science – 2013
45. **Lara Henry – Marine Science (Co-chair with JJ Torres) – 2013**
46. Brian Barnes – Marine Science – 2013
47. Candace Simmons – Marine Science – 2013
48. Mark Patsavas – Marine Science – 2014
49. **W. Noland Elsaesser -- Marine Science (Co-Chair with N. Blake) – 2014**
50. Paul Knorr – Geology – 2014
51. Bo Yang – Marine Science – 2015
52. **Katherine Wirt – Marine Science – 2016**
53. **Kwasi H. Barnes – Marine Science – 2016**
54. **Natasha Mendez-Ferrer – Marine Science – 2016**

Doctoral Dissertation Advisory Committees - University of South Florida – completed (cont.)

55. Michael Martinez-Colon – Marine Science – 2016
56. Maria Vega-Rodriguez – Marine Science – 2016
57. Shane Dunn – Marine Science – 2016
58. Josh Breithaupt – Marine Science – 2017
59. Adrienne George – Marine Science (Chair) – 2017
60. Nora (Katie) Douglas – Marine Science – 2018
61. Christian Haller – Marine Science (Co-Chair) – **2018**
62. Elizabeth Brown – Marine Science (Chair) – **2018**
63. Benjamin Ross – Marine Science – (Chair) – **2018**
64. Selena KupfnerJohnson – Marine Science (Chair) – **2019**

Dissertation Committees-in progress

Natalia Lopez-Figueroa–Marine Science (Chair)
Savanna Hartman–Marine Science
Florida International University
Maria Sider–Geology

Dissertation Defense Chair

Nicholas Curtis – USF Department of Biology -- 2006
Keith Hackett – USF Department of Mathematics and Statistics – 2011
Michael Middlebrook – USF Department of Integrative Biology – 2012

Doctoral Dissertation Advisory Committees – Other Universities

University of Calcutta (External Examiner)
1. Mrinal Khanti Ghosh - Zoology – 1988
2. Sri Sabyasachi Majumdar – Marine Science - 2003
University of Tennessee at Knoxville (Outside Reader)
3. Jonathan Bryan - Geology – 1991
James Cook University, Townsville, Australia ((External Examiner)
4. Melissa Lobegeier – Earth Sciences – 2001
Universitat de les Illes Balears, Spain (co-advisor)
5. Guillem Mateu Vincens – Biology – 2007
University of Miami, Miami, Florida – 2011 (Committee Member)
6. Rebecca Albright – RSMAS
University of Queensland, Australia (Independent Examiner)
7. Yogeeta Roshni Narayan – 2011
Macquerie University, NSW, Australia (Independent Examiner)
8. Briony Mamo – 2011
University of Technology, Sydney, NSW, Australia (External Examiner)
9. Sutinee Sinutok – 2012
University of Queensland, Australia (Independent Examiner)
10. Joost Wijtze van Dam – 2013
Ain Shams University, Egypt (Dissertation Committee Member)
11. Safeya Gaber Abdullah Almenoufy – 2014
Pondicherry University, Pudhucherry, India (External Examiner)
12. P. Mothilal Yuvaraja – 2014
Utrecht University, The Netherlands (External Examiner)
13. Vibor Novak – 2014
Universitat Autònoma de Barcelona, Spain (External Examiner)
14. Maria Eugenia Arriaga Cavalieri -- 2016
King Fahd University of Petroleum and Minerals, Dhahran, Saudi
15. Abduljamiu Olalekan Amao – 2017 (Dissertation Committee Member)
University of Bremen and ZMT, Germany (Dissertation Committee Member)
16. Marleen Struh – January 2018

Mentor/advisor for CMS Minority Recruitment Programs:

Sloan PhD program:

Michael Martínez-Colón, PhD 2016
Natasha Mendez-Ferrer, PhD 2016
Adrienne George, MSc, PhD 2017

NSF-Bridge to Doctorate Program for minority students:

Camille Daniels, MSc 2005, PhD 2011
Eddy Flores – 2005-2006 withdrew
Ryann Williams, MSc 2009
Adrienne George, MSc, PhD 2017
Natasha Mendez-Ferrer, PhD 2016
Natalia Lopez-Figueroa, PhD – in progress

Other Minority Students Supervised

Nicole Turkson, MSc 2000
Ana Hoare, MSc 2002
Nicole Caesar, MSc 2006
Alexa Ramirez, M.S. 2008
Kwasi Barnes, PhD 2016

Postdoctoral Researchers Hosted or Supervised:

Niyazi Avsar, Gukurova University, Turkey - 1986
Eulalia Gili-Folch, Autonoma University of Barcelona, Spain - 1991
Bayu Ludvianto, Benkulu University, Indonesia - 1996-97
Timothy Ourbak, CMS-USF Endowed Postdoctoral Researcher – 2007-2008 (co-advisor)
Jennifer Dupont – Knauss Fellow – 2009-10
Julia Galkiewicz – Knauss Fellow – 2012-13

Predoctoral Visiting Researchers (including "Sandwich" Scholars) Hosted/Supervised:

Kazuhito Fujuta, Tohuku University, Sendai, Japan – 1998
Maria Elena Chávez-Marrero, Instituto de Ocenologia, 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 Brehmen, Germany – 2009-10
Imam Bachtiar, Bogor Agricultural University, Indonesia – 2009-10
Martina De Freitas Prazeres, University of Rio Grande dul Sul, Brazil – 2011
Maria Eugenia Arriaga Cavalieri, Universitat Autònoma de Barcelona, Spain – 2014
Marleen Struh, University of Bremen and ZMT, Germany – 2014, 2015

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 –2008-12
Brooke Freeberg, Environmental Science and Policy, STREAMS Fellow –2009-12
Ashley Earls, Claudia Burriss – Applied Calculus II Projects – Fall 2010
Sofialejandra Bejarano – Applied Calculus II Project – Spring 2011
Elizabeth Stoever – Applied Calculus II Project – Fall 2011
Kasi Techron - Environmental Science and Policy, USF St Petersburg – 2011-12
Stephanie Lawler - Environmental Science and Policy, USF St Petersburg – 2011
Brittani Woolverton - Environmental Science and Policy, USF St Petersburg –2012
Elizabeth Johnsey -- Environmental Science and Policy, USF St Petersburg –2012-14
Benjamin Prueitt -- Environmental Science and Policy, USF St Petersburg –Senior Honors Thesis Advisor – 2012-13
Sophia Grammerler – Integrative Biology – 2014
Marshall Lester – Environmental Science and Policy (Intern Spring 2015)
Garrett Miller –Biology USFSP, Senior Honors Thesis Advisor – December 2015
Alexis Valencia – Biology USFSP – Fall Semester 2016

Middle/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, Dreyfos 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
Sage Hazlett, Home Schooled, Clearwater, Ist place Middle-School Science Fair –2014

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 (*Current)*

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 (1986-2018), Co-chair (2017-19)**
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; 2012, 2013; 2018, **2019-chair**, 2020)
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 1987-2019; 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, 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; Member – 2012-13)
Search Committees for Dean of the College of Marine Science (2006-2008; 2010)
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)
CMS Search Committee for a Paleoclimatologist (2010-11)
CMS Ad-Hoc Committee on Undergraduate Teaching (2011-12)
CMS Search Committee for a Paleooceanographer (2012-13)
CMS Dean's Advisory Council, College of Marine Science (Chair 2012-14)
CMS Search Committee for a Biological Oceanographer (2014-15)
***USF Graduate Council**, including Policy **and Curriculum Committee** (Member 2005-08, 2009-12, 2014-20; Co-chair of Curriculum 2010-12)
CMS Search Committee for a Chemical Oceanographer (2015-16)
CMS Curriculum Committee (Member 2011-20)
CMS 50th Reunion Committee (Co-Chair 2016-17)

SUS/BOR/UFF Committees

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

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 (1980-83)
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 –1998)
Member Scientific Advisory Panel, American Littoral Society - Coral Reef Conservation Center, Key Biscayne, Florida (1988–1992)
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 Cleanups: annually 1993–2018
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 or Science Judge, Spoonbill Bowl (West Florida Regional qualifier for the National Ocean Science Bowl)–annually, 2006–2010 and 2012–**2020**; also includes reviewing questions prior to the competition.
Expert Judge, National Ocean Science Bowl–2011
Presentation and Writing Coach, McKnight Doctoral Fellowship Program Mid-Year Meeting Research and Writing Conference, 2012, 2013.
Great American Teach In–Presented talks on careers in science at the Thonotosassa Community Middle School, 10/2015
Camper Interviews, Oceanography Camp for Girls, nearly every year since the camp began in 1991.
Reviewer of student applications for the MSPHD program, a nation-wide program aimed at enhancing success in graduate students from underrepresented minorities, annually 2010–2015
Member, later Co-organizer of the Salty Dogfish Team for the Tampa Bay SPCA Petwalk–1990s through 2018.
Member and participant in ARCS Tampa Bay, a local chapter of ARCS National that raises funds to support graduate students in STEM disciplines (through 2017).
Participant in the Southeastern Guide Dogs Walkathon 2017-2020.

Research and Creative Activities

Publications (*my graduate students;**student on whose committee I served)

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.
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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.

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.

Grants and Contracts (cont.)

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.

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.

Grants and Contracts (cont.)

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.

“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).

Grants and Contracts (cont.)

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 foraminifers 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 CO_2 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.

Grants and Contracts (cont.)

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. 05/08-04/10.

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: 5/09-4/11: $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. Project Period: 8/13/2010-8/12/2012.

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 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

Florida Shelves: A Natural Laboratory for the Study of Carbonate Sedimentation. Shiptime proposal to Florida Institute of Oceanography. Four days aboard the R/V Bellows representing an award of ~$14,000 in shiptime and support services from the State of Florida. 04/11.

Julia Galkiewicz -- Knaus Fellowship 2012. Florida Sea Grant. PI: P. Hallock Muller; $49,000 total; Project Period: 02/01/2012-01/31/2013.

Fixed Price TO for Michael Martinez-Colon to participate in Exp. 340. Consortium for Ocean Leadership. PI: P. Hallock Muller; $19,783 total; Project Period: 02/03/2012-01/31/2015.

Fixed Price TO for Elizabeth Brown to participate in Exp. 349. Consortium for Ocean Leadership. PI: P. Hallock Muller; $18,638 total; Project Period: 01/27/2012-02/15/2016.

Harmful Algal Bloom Liason. Florida Fish and Wildlife Conservation Commission. PI: P. Hallock Muller, $86,070 yr 1, $258,285 total; Project Period: 06/19/2015-6/30/2018

Subtropical Back-barrier Ecological Responses to Environmental Changes. PI: P. Hallock Muller. $40,000. Project Period: 08/01/16-07/31/17.

Meeting Abstracts (*my graduate students; **student on whose committee I served)

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.

Röttger, 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.

Cottey*, 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.

Meeting Abstracts (cont.)

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.

Meeting Abstracts (cont.)

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.

Harris, M. W., A. C. Hine, P. Hallock and H. T. Mullins. 1990. Sediment Transport Pathways within a Current-Dominated Open Seaway, Nicaraguan Rise, Caribbean Sea. Geological Society of America 1990 Annual Meeting, Dallas, Texas. GAAPBC 22:A67.

Hine, A. C., S. D. Locker, H. T. Mullins, L. Tedesco, and P. Hallock. 1990. Multiple megabreccia shedding from low-relief carbonate platforms in an active tectonic setting: Nicaraguan Rise, Southwest Caribbean Sea. American Association of Petroleum Geologists Annual Convention, San Francisco. AAPG Bulletin 74(5):675.

Peebles*, M. W., P. Hallock and A. C. Hine. 1990. Rhodolite and encrusted-grain sedimentation, Thunder and Lightning Knolls, Southwest Caribbean Sea. American Association of Petroleum Geologists Annual Convention, San Francisco. AAPG Bulletin 74(5): 737-738.

Boersma, A., I. Premoli Silva and P. Hallock. 1991. Trophic Models Applied to Late Paleocene to Early Eocene Planktonic Foraminifera. Geological Society of America 1991 Annual Meeting, San Diego, California. GAAPBC 23(5):A141.

Hallock, P. and A.C. Hine.1991.Coral-reef turn-on/turn-off on the Nicaraguan Rise. SEPM First Annual Theme Meeting, Portland, Oregon, August 1991.

Hallock, P. and F. Müller-Karger. 1991. Coral Reefs and Environmental Change: A Caribbean Perspective. Geological Society of America 1991 Annual Meeting, San Diego, California. GAAPBC 23(5):A298.

Hine, A. C., S. D. Locker, P. Hallock and H. T. Mullins. 1991. Strongly contrasting modes of slope failure and erosion along the carbonate margins of three open seaways; northwest Nicaraguan Rise. American Association of Petroleum Geologists Annual Convention, Dallas, Texas. AAPG Official Program, p. 131.

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Meeting Abstracts (cont.)

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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 Paleoceanographic Evidence. Abstracts, 11th International Coral Reef Symposium 2008, Fort Lauderdale, Fl. p. 7.

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Meeting Abstracts (cont.)

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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

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Hallock, P. 2012. The FoRAM Index: A single-metric indicator of coastal and reef water quality. Geological Society of America Annual Meeting, Charlotte, NC, November 2012. https://gsa.confex.com/gsa/2012AM/webprogram/Paper212310.html

Hallock, P. 2012. Strategies for energy capture indicate environments of carbonate production. Geological Society of America Annual Meeting, Charlotte, NC, November 2012. https://gsa.confex.com/gsa/2012AM/webprogram/Paper212368.html

*Mendez-Ferrer**, N. Hallock, P. 2012. Photo-oxidative stress and bleaching in the foraminiferan *Amphistegina gibbosa* d'Orbigny: A PAM fluorometry approach. Florida Academy of Science Meeting, Tampa, Florida, March 16-17, 2012.

*Mendez-Ferrer**, N., Hallock, P. 2012. Quantifying photic stress in algal symbionts of larger benthic foraminifers. Geological Society of America Annual Meeting, Charlotte, NC, November 2012. https://gsa.confex.com/gsa/2012AM/webprogram/Paper212264.html

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*Mendez-Ferrer**, N., Hallock, P. 2013. Assessing photochemical performance in algal symbionts of *Amphistegina gibbosa.* NSF Puerto Rico LSAMP conference, March 9, 2013.

*Mendez-Ferrer**, N., Hallock, P. 2013. Monitoring photosynthetic performance in *Amphistegina gibbosa* (Foraminifera) from the Florida Keys. Benthic Ecology Meeting, Savannah, GA, March 2013.

Hallock, P., 2013. Anthropocene stress in reef-dwelling Foraminifera: Taphonomic evidence. Geological Society of America Annual Meeting, Denver, CO, USA. October 2013.

Hallock, P., 2013. Women in the geosciences: The amazing power of one!. Geological Society of America Annual Meeting, Denver, CO, USA. October 2013.

Bartlett*, L., Brinkhuis, V., Colella, M., Ruzicka, R., Hallock, P., Lunz, K., Moulding, A. 2014. Temporal Changes in Juvenile Density of Octocorals and Stony Corals Following Disturbance on Patch Reefs of the Florida Reef Tract. Benthic Ecology Meeting 2014, Jacksonville, FL, March 19-22, 2014.

Collins, L.S., Hallock, P., Pletka, C.R., Beck, K.D. 2014. Environmental impact of the Deepwater Horizon Oil Spill on deep-sea benthic foraminifera. 10th North American Paleontological Convention, Gainesville, FL, February 15-18, 2014. Abstract Book, p. 14.

Dimiza, M.D., Triantaphyllou, M.V., Koukousioura**, O.,Hallock, P., Athanasiou, M., Moumtzi, E., Simboura, N., Papathanasiou, E., Hallock, P. 2014. Benthic foraminiferal assemblages as an environmental proxy in coastal ecosystems: The case of Saronikos Gulf (Aegean Sea, Greece). In Marchant, M. & Hromic, T. (eds.) International Symposium on Foraminifera Forams 2014, Chile, 19–24 January 2014, Abstract Volume. Grzybowski Foundation Special Publication 20, p. 94. http://gf.tmsoc.org/Documents/Marchant+Hromic%202014%20GFSP20.pdf

Hallock,P., McCloskey*, B.J., Engel*, B. 2014. Preservation Potential versus Survival: Insights from the Vicinity of a Hydrothermal Vent System in Papua New Guinea. In Marchant, M. & Hromic, T. (eds.) International Symposium on Foraminifera Forams 2014, Chile, 19–24 January 2014, Abstract Volume. Grzybowski Foundation Special Publication 20, p. 88. http://gf.tmsoc.org/Documents/Marchant+Hromic%202014%20GFSP20.pdf

Meeting Abstracts (cont.)

Hallock, P. 2014. Why has optimum habitat for stony corals diverged from that for foraminifers with algal symbionts on the Florida reef tract? 10th North American Paleontological Convention, Gainesville, FL, February 15-18, 2014. Abstract Book, p. 13.

Fisher Moses*, E., Hallock, P., Fauth, J.E.,Woodley, C.M. 2014. Larger Benthic Foraminiferal Populations on the Florida Reef Tract Reveal the Interplay between Inshore and Offshore Environmental Stressors. Geological Society of America Annual Meeting, Vancouver, BC, Canada, October 2014.https://gsa.confex.com/gsa/2014AM/webprogram/Paper242914.html

*Méndez-Ferrer**, N and Hallock, P. 2014. Seasonal variation in the photosynthetic efficiency of algal symbionts in *Amphistegina gibbosa* (Foraminifera) in the Florida Keys. Ocean Science Meeting, Honolulu, Hawai'i.

Beckwith*, S., Hallock, P. 2015. Distribution of *Archaias angulatus* on the Inner West Florida Shelf: Substrata and Water Chemistry versus Temperature. Geological Society of America Annual Meeting, Baltimore, MD (poster). https://gsa.confex.com/gsa/2015AM/webprogram/Paper268867.html

Brown*, E.A., Weinkauf, M.F.G., Hallock, P., Kucera, M. 2015. Assessment of the distribution of *Globigerinoides ruber* and *Globigerinoides elongatus* using a minimalist classification scheme. The Micropaleontological Society, Plymouth, UK (poster presentation).

Hallock, P. 2015. Graduate mentoring: A creative process. Geological Society of America Annual Meeting, Baltimore, MD. https://gsa.confex.com/gsa/2015AM/webprogram/Paper269208.html

Hallock, P., Mateu Vicens, G., Pomar, L. 2015. Cenozoic Trends in Shallow-Water Carbonate Production: Insights from Chemistry, Climate and Biology. Geological Society of America Annual Meeting, Baltimore, MD. https://gsa.confex.com/gsa/2015AM/webprogram/Paper269072.html

Knorr**, P., Robbins, L.L., Wynn, J., Hallock, P., Harries, P. 2015. Effect of ocean acidification on large benthic foraminiferal stable isotope composition. Geological Society of America Annual Meeting, Baltimore, MD. https://gsa.confex.com/gsa/2015AM/webprogram/Paper267770.html

*Martínez-Colón**, M., Hallock, P., 2015. Bioavailability and bulk heavy metal concentrations in Torrecilla Lagoon,Puerto Rico. Geological Society of America, Annual Meeting, Baltimore, MD. https://gsa.confex.com/gsa/2015AM/webprogram/Paper269378.html

Ross*, B.J., Hallock, P. 2015. Dormancy in the Foraminifera: Implications for the Past, Present and Future. Geological Society of America Annual Meeting, Baltimore, MD. https://gsa.confex.com/gsa/2015AM/webprogram/Paper267520.html

Beckwith*, S.T., and Hallock, P. 2016. ABUNDANCE OF *ARCHAIAS ANGULATUS* ON THE INNER WEST FLORIDA SHELF SUGGESTS THE INFLUENCE OF CARBONATE ALKALINITY OVER SALINITY. Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Brown, E. A.*, Weinkauf, M. F.G., Hallock, P. and Kucera, M. 2016. EVALUATING MORPHOSPACE DISCONTINUITY WITHIN THE *GLOBIGERINOIDES RUBER-ELONGATUS* PLEXUS, AND THE POTENTIAL FOR A CONSISTENT FOSSIL CLASSIFICATION SCHEME. Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Brown, E. A.*, Weinkauf, M. F.G., Hallock, P. and Kucera, M. 2016. Quantitative assessment of the potential for consistent morphological classification of *Globigerinoides ruber* morphotypes. International Conference on Palaeoceanography (ICP12), Utrecht, The Netherlands, August 2016.

Haller, C.**, Osterman, L.E., Smith, C.G., Hallock, P. and Hine, A. C. 2016. CHANNEL TO UPLAND TRANSITION: MODERN SALT-MARSH FORAMINIFERA FROM GRAND BAY, MISSISSIPPI SOUND. Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Hallock, P., Mateu Vicens, G., Pomar, L. 2016. Why do coral reefs thrive in Icehouse World climates? Clues from larger benthic foraminifers. 13th International Coral Reef Symposium, Honolulu, HI. June 2016.

Hallock, P. 2016. How basic life history studies can inform and guide "omics" and other technology-intensive research. Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Méndez-Ferrer*, N., Hallock, P., Jones, D. 2016. Photochemical efficiencies of diatom symbionts *in hospite* in *Amphistegina gibbosa* (Foraminifera) across seasons in the Florida Keys, USA. 13th International Coral Reef Symposium, Honolulu, HI. June 2016 .

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Pisapia, C., Spezzaferri, S., El Kateb, A., Ibrahim, N., and Hallock, P. Foraminiferal bleaching in the Maldives: A tool to assess El Nino temperature-related coral bleaching? 13th International Coral Reef Symposium, Honolulu, HI. June 2016.

Mendez-Ferrer, N.*, and Hallock, P. 2016. Changes in primary production as a result of symbiont-loss in the diatom-foraminifer holobiont *Amphistegina gibbosa* from the Florida Keys. (Invited Presentation). Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Ross, B.J.*, and Hallock, P. 2016. Observations of the symbiont-bearing foraminifer *Amphistegina gibbosa* utilizing cell-tracker green and epifluorescent microscopy. Geological Society of America, Annual Meeting, Boulder Colorado, September 2016.

Spezzaferri, S., Pisapia, C., El Kateb, A., Ibrahim, N., and Hallock, P. 2016. Assessing coral reef health in the North Ari atoll, Maldives using the Foram Index. 13th International Coral Reef Symposium, Honolulu, HI. June 2016.

Hallock, P., Papazzoni, C.A., and Seddighi, M. 2017. A proposed model for carbonate banks characterized by large, flat, benthic foraminifers. Geological Society of America, Annual Meeting, Seattle, WA. October 2017.

Amergian*, K., S. Beckwith*, and P. Hallock (2018) Florida's Springs Coast as an Area of Refuge for Foraminifera during Increased Ocean Acidification. Poster, AGU Annual Meeting, December 2018, Washington, D.C.

Beckwith*, S., R. Byrne, and P. Hallock (2018) Alternative saturation state calculations from measured calcium concentrations provide a measure of regionally-variable calcification potential. Ocean Sciences Meeting 2018, Portland, OR.

Haller*, C., Hallock, P., Hine, A.C., Smith, C.G. (2018) Leeuwin Current activity controls benthic foraminifera on the Carnarvon Ramp, Western Australia: From inception to flow optimum. American Association of Petroleum Geologists – Annual Convention and Exhibition. Salt Lake City, Utah, 20-23 May 2018.

Hallock, P. 2018. Why foraminiferal research became “geology” and how technology rejuvenated biological studies (poster). FORAMS 2018, International Symposium on Foraminifera, Edinburg, Scotland, June 2018.

Hallock, P., Papazzoni, C.A., and Seddighi, M. 2018. Bioherms Characterized by Large, Flat, Benthic Foraminifers: Paleoecological Insights from Biology and Oceanography, FORAMS 2018, International Symposium on Foraminifera, Edinburg, Scotland, June 2018.

Hallock, P. 2018. Insights into the paleoecology of carbonate strata characterized by exceptionally large benthic foraminifera (poster). 20th International Sedimentological Congress, Quebec City, Canada, August 2018, Abstracts, v. 2, p. 109.

Hallock, P., Barnes*, K. H., Martin*, M. M., Kellogg, C. A. 2018. Two microbiome studies provide insights into evolutionary histories of host foraminiferal taxa. Geological Society of America, Annual Meeting, Indianapolis, November 2018, https://gsa.confex.com/gsa/2018AM/meetingapp.cgi/Paper/319159.

Beccari, V., S. Stainbank, P. Hallock, D. Basso, M. Fau, and S. Spezzaferri. 2019. Assessing coral reef health in North Ari Atoll (Maldives Archipelago) using different indices: Amphistegina Bleaching, FORAM and SEDCON Indices. IAS International meeting of Sedimentology, Università di Roma La Sapienza.

Hallock, P. 2019. What exactly are larger benthic foraminifera? Why definitions matter. Geological Society of America, Annual Meeting, Phoenix, September 2019.

Hallock, P. 2019. To recruit a diversity of graduate students, use a diversity of critera. Geological Society of America, Annual Meeting, Phoenix, September 2019.

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	Paleoceanographic nutrients and the evolution of larger reef foraminifera. Second International Conference on Paleoceanography, 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).
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.
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.

Invited Lectures (cont).

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 Paleogroductivity and Ocean Mixing, SEPM Theme Meeting, *August 8-12, 1993, Pennyslvania 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
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.

Invited Lectures (cont).

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).
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.

Invited Lectures (cont).

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	Foraminifers 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. Foraminifers 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.
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 21st Century: Is the Past the Key to the Future? AWG Distinguished Lecture, University of Missouri, Kansas City, Missouri.

Invited Lectures (cont).

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 21st Century: Is the Past the Key to the Future? AWG Distinguished Lecture: Geoscience Colloquium, University of Arkansas, Fayetteville.
May 2006	Coral Reefs in the 21st Century: Is the Past the Key to the Future?; Distinguishing Local from Global Stresses: Low-Cost Tools for Reef Monitoring and Risk Assessment; and Causes and Consequences of Bleaching in Reef-Dwelling Foraminifer – three lectures as part of a short course on Environmental Micropaleontology at the University of Athens, Greece.
September 2006	Plenary Speaker: Bleaching in Foraminifera with Algal Symbionts: Implications for Reef Monitoring and Risk Assessment. FORAMS 2006, Natal, Brazil.
October 2006	Coral Reefs in the 21st 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 21st Century: Is the Past the Key to the Future? St. Petersburg Audubon Society, St. Petersburg, Florida..
July 2007	Coral Reefs in the 21st Century: Is the Past the Key to the Future? Mote Marine Laboratory, Sarasota Florida.
September 2007	Coral Reefs in the 21st 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 21st 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 21st 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 21st Century: Is the Past the Key to the Future? Eckerd College Sigma Xi Chapter Speaker.
February 2010	Coral Reefs in the 21st Century: Is the Past the Key to the Future? Hillsborough Community College Lecture Series.
March 2010	Coral Reefs in the 21st 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 21st 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.
January 2011	Coral Reefs in the 21st Century: Is the Past the Key to the Future? Pasco County Environmental Lands Education Program, New Port Richey, Florida.
March 2011	Coral-Reefs of the 21st Century: Is the Past the Key to the Future. Environmental Science and Policy, USF-St Petersburg, Spring Seminar Series.
October 2011	Modern coral reefs under global change: New opportunities to understand carbonate depositional hiatuses The Paleontological Society Shortcourse: *Corals and Reefs: Crises, Collapse and Change*, Minneapolis, MN, Oct. 8, 2011.
October 2011	Coral reefs in the Anthropocene: What paradoxes can we learn from today? College of Marine Science Seminar, University of South Florida, St. Petersburg.
November 2011	Coral Reefs and Climate Change: Goldilocks or Canaries? Association of Senior Professional as Eckerd College, St. Petersburg, FL
November 2011	Influence of a Shallow-Water Hydrothermal Vent System at Ambitle Island, Papua New Guinea, on Tropical Foraminiferal Assemblages. Leibniz Center for Tropical Marine Ecology (ZMT), Bremen, Germany.
December 2011	Global Change in the 21st Century: Do Coral Reefs Have a Future? Satly Topics Seminar Series, Weedon Island Preserve, St. Petersburg, FL.,
January 2012	Global Change in the 21st Century: Do Coral Reefs Have a Future? Indian Rocks Beach Neighborhood Association Boat Club, Indian Rocks Beach, FL.
April 2012	Global Change in the 21st Century: Do Coral Reefs Have a Future? University of California, Merced, California.
May 2012	21st Century Coastal Environments: Do Coral Reefs Have a Future? Coastal Cities Summit, St. Petersburg, Florida.
October 2012	Bleaching in reef-dwelling foraminifers: implications for reef decline. Women in Science Lecture, Leibniz Center for Tropical Marine Ecology (ZMT), Bremen, Germany.
October 2012	Bleaching in reef-dwelling foraminifers: implications for reef decline. Alfred Wegener Institute for Polar and Marine Studies (AWI), Bremerhaven, Germany.
October 2012	Hallock, P. 2012. The FORAM Index revisited:Usefulness, challenges and limitations. USF-St Petersburg Environmental Science Seminar Series.
November 2012	The FoRAM Index: A single-metric indicator of coastal and reef water quality. Invited talk for The Role of Microfossils in Environmental Monitoring, Geological Society of America Annual Meeting, Charlotte, NC,
November 2012	Strategies for energy capture indicate environments of carbonate production. Invited talk for Heterozoan Carbonates in Time and Space, Geological Society of America Annual Meeting, Charlotte, NC, November 2012.
October 2013	The FoRAM Index: A single-metric indicator of coastal and reef water quality. Alfred Wegener Institute for Polar and Marine Studies (AWI), Bremerhaven.
October 2013	Anthropocene stress in reef-dwelling Foraminifera: Taphonomic evidence. Geological Society of America Annual Meeting, Denver, CO.
April 2014	Modern Coral Reefs Under Global Change: Lessons from Goldilocks. AWG Distinguished Lecture, Colby College, Maine.
March 2016	Two lectures: Cenozoic Trends in Shallow-Water Carbonate Production: Insights from Chemistry, Climate and Biology, and Women in the Geosciences: The

Amazing Power of One. Association of Women Geoscientists Distinguished Lectures presented at University of Texas at Austin.

Invited Lectures (cont).

April 2016	Cenozoic Trends in Shallow-Water Carbonate Production: Insights from Chemistry, Climate and Biology. Seminar for Louisiana State University College of the Coast and Environment.
September 2017	Modern Coral Reefs Under Global Change: Opportunities to Understand Paradoxes in the Carbonate Record. University of Lausanne, Switzerland.
September 2017	Forams as Bioindicators in Warm-Water Coastal Environments, Bridging gaps and generations in foraminiferal biomonitoring: toward a new COST action on pollution monitoring (FORAM-COST). Fribourg, Switzerland, September 2017.

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 21-25 July 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.

Sessions Chaired at Professional Meetings (cont.)

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 (with my Graduate student Michael Martinez-Colon): Ontogenetic, taphonomic and diagenetic shell features: What stories can they tell? Forams 2010, Bonn, Germany, Sept. 2010.
Co-convenor: Coral Reefs in a Crystal Ball: What Will Be Their Future? ASLO-San Juan, February 2011.
Co-convenor: *Frontiers in Foraminiferal Research: Implications for Interpreting the Past, Understanding the Present, and Predicting the Future.* Geological Society of America Annual Meeting, Minneapolis, MN, October 2011.
Co-convenor: Benthic foraminfera as indicators and model organisms for environmental changes on coral reefs: local, regional and global. 12th International Coral Reef Symposium, Cairns, Australia, July 2012.
Co-convenor:Advances in Environmental Micropaleontology, Forams 2014 – International Symposium on Foraminifera, Concepcion, Chile, January 2014.
Co-convenor: The Microfossil Record: The Past is the Key to the Future (or Present) in Conservation Paleobiology. NAPC 2014 – North American Paleontological Congress, Gainesville, Florida, USA, February 2014.
Lead convenor: Indicator taxa: What can they tell us about the past, present and future for coral reefs? International Coral Reef Symposium, Honolulu, June 2016.
Lead convenor: Session V: Foraminiferal Research Schools: The Past Can Inform the Future: FORAMS 2018, International Symposium on Foraminifera, Edinburg, Scotland, June 2018.

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, Tremp, 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.

Invited Workshop or Committee Participation (cont.)

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 CO_2 - Neritic Ecosystem Response. Impacts of Increasing Atmospheric CO_2 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.

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.

NSF Workshop: Broadening the Spectrum: A Community Workshop to Expand Opportunities for Underrepresented Minorities in the Marine and Environmental Sciences in South Florida. Indian River State College, Fort Pierce, FL, USA, February 2013.

Scientific Committee Member, Forams 2014 – International Symposium on Foraminifera, Concepcion, Chile, January 2014.

Bridging gaps and generations in foraminiferal biomonitoring: toward a new COST action on pollution monitoring (FORAM-COST). Fribourg, Switzerland, September 2017.

Scientific Committee Member, Forams 2018–International Symposium on Foraminifera, Edinburgh, Scotland, June 2018.

Invited Instructor, Short course on Foraminfera, Nanjing University, Nanjing, China, September 2019

Scientific Committee Member, Forams 2022–International Symposium on Foraminifera, Perugia, Italy

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)
For Texas A&M University Press: Reviewed manuscript for Ecologic Atlas of Benthic Foraminifera of the Gulf of Mexico by C.W. Poag (2014)
For R&RSolutions, Arlington, VA, provided technical recommendations (2019)