



# National Association of Marine Laboratories

## PRESIDENT

Anthony Michaels  
Wrigley Institute for Environmental  
Studies  
University of Southern California  
P.O. Box 5069  
Avalon, CA 90704  
p 213-740-6780 · f 213-740-7620  
tony@usc.edu

April 30, 2007

National Science Board

Attn: Ann Noonan  
4201 Wilson Boulevard Room 1220  
Arlington, Virginia 22230

## CHAIRMAN

COMMITTEE ON PUBLIC POLICY  
James Sanders  
Skidaway Institute of Oceanography  
10 Ocean Science Circle  
Savannah, GA 31411  
p 912-598-2400 · f 912-598-2310  
jim.sanders@skio.usg.edu

To Whom It May Concern:

On behalf of the National Association of Marine Laboratories (NAML) I respectfully submit three (3) nominees for consideration for appointment to the National Science Board (NSB). Each of these individuals is an excellent scientist with a multi-disciplinary perspective and a keen sense of the link between science and the needs of society. In one form or another, each has dedicated their careers to ocean, coastal and Great Lakes research and education, whether concentrating on the physical, social or biological sciences. Each would provide a unique dynamic and perspective to the Board.

## PAST PRESIDENT

Jeffrey M. Reutter  
F. T. Stone Laboratory  
Ohio Sea Grant College Program  
Ohio State University  
1314 Kinnear Rd.  
Columbus, OH 43212  
p 614-292-8949 · f 614-292-4364  
reutter.1@osu.edu

NAML is a nonprofit organization of over 120 institutions employing more than 10,000 scientists, engineers, and professionals and representing ocean, coastal and Great Lakes laboratories stretching from Maine to the Gulf of Mexico to the west coast, from Guam to Bermuda and from Alaska to Puerto Rico. NAML labs conduct high quality ocean, coastal and Great Lakes research and education in the natural and social sciences and promote the effective use of that science for decision-making on important issues that face our country. We are careful stewards of federally-funded research, particularly NSF-funded research, involving the oceans, coasts and Great Lakes and thanks to our local connections have the ability to bring the excitement of ocean and marine research, science and education to all Americans.

## TREASURER

Alan M. Kuzirian  
Marine Biological Laboratory  
7 MBL Street  
Woods Hole, MA 02543  
p 508-289-7480 · f 508-289-7900  
akuziria@mbl.edu

NAML conducted a thoughtful search to identify potential nominees to fill the upcoming vacancies on the NSB and endorses the following individuals:

## SECRETARY

William M. Wise  
Marine Sciences Research Center  
Stony Brook University  
Stony Brook, NY 11794-5000  
p 631-632-8656 · f 631-632-9441  
wwise@notes.cc.sunysb.edu

- ∞ **Michael K. Orbach**, Professor, Marine Affairs and Policy, Immediate Past Director, Duke University Marine Laboratory, Director, Coastal Environmental Management Program
- ∞ **Shirley Pomponi**, President and Chief Executive Officer, Harbor Branch Oceanographic Institution, Chair, National Academy of Science (NAS) Ocean Studies Board
- ∞ **Kenneth P. Sebens**, Director, Friday Harbor Laboratories, University of Washington

## WASHINGTON REPRESENTATIVE

Joel Widder  
Lewis-Burke Associates, LLC  
1341 G Street, NW, 8<sup>th</sup> Fl  
Washington, DC 20005  
p 202-289-7475 · f 202-289-7454  
jwidder@lewis-burke.com

*The National Association of Marine Laboratories (NAML) is a nonprofit organization of over 120 member institutions representing coastal, marine, and Great Lakes laboratories in every coastal state, stretching from Guam to Bermuda and Alaska to Puerto Rico. Members serve as unique "windows on the sea," providing information on the rich environmental mosaic of coastal habitats as well as offshore oceanic regions and the Great Lakes. NAML member laboratories conduct research and provide a variety of academic, education and public service programs to enable local and regional communities to better understand and manage the ocean, coastal and Great Lake environments. NAML is comprised of three regional associations: the Northeastern Association of Marine and Great Lakes Laboratories (NEAMGLL); the Southern Association of Marine Laboratories (SAML); and the Western Association of Marine Laboratories (WAML).*

# National Association of Marine Laboratories

Thank for the opportunity to present these nominees to the NSB. We hope the Board will given them due consideration. If you require additional information, please do not hesitate to contact me at the information on the first page.

Sincerely,



Anthony F. Michaels  
President, National Association of Marine Laboratories  
Director, Wrigley Institute for Environmental Studies  
University of Southern California



## NAML

The National Association of Marine Laboratories

NOMINATION FOR MEMBERSHIP  
NATIONAL SCIENCE BOARD

**Nominee:**

Michael K. Orbach  
Professor in the Practice of Marine  
Affairs and Policy  
Immediate Past Director, Duke  
University Marine Laboratory  
Director, Coastal Environmental  
Management Program

**Nominator:**

Anthony Michaels  
President, National Association of  
Marine Laboratories (NAML)

**Nominee's Year and Place of Birth:**

November 19, 1947  
Los Angeles, California, USA

**Biographical Sketch:** (see attached)

## SHORT BIOGRAPHY FOR MICHAEL K. ORBACH

Michael K. Orbach is Professor of Marine Affairs and Policy and Director of the Duke University Marine Laboratory and the Coastal Environmental Management Program in the School of the Environment at Duke University. His BA is in Economics from the University of California at Irvine, and his MA and PhD are in Cultural Anthropology from the University of California at San Diego. From 1976-79 he was Social Anthropologist and Social Science Advisor with the National Oceanic and Atmospheric Administration in Washington, D.C. From 1979-82 he was Associate Director of the Center for Coastal Marine Studies at the University of California at Santa Cruz. From 1983-93 he was Professor of Anthropology in the Department of Sociology and Anthropology and Senior Scientist with the Institute for Coastal and Marine Resources at East Carolina University. He joined Duke, with offices at the Duke Marine Laboratory in Beaufort, North Carolina, in 1993, and served as Director of the Laboratory from 1998 to 2006.

Dr. Orbach's primary Area of expertise is environmental policy and his secondary area of expertise is coastal zone management. Dr. Orbach's generic statement of expertise is that he applies the tenets of the social sciences to environmental policy and management, focusing on marine fisheries and integrated coastal management. He has always been very active in informing and engaging the public and has a record of strong participatory action in affecting informed decision making at all levels in environmental issues.

Mike has performed research on, and has been involved in development and implementation of, coastal and marine policy on all coasts of the U.S. and in Mexico, Central America, the Caribbean, Alaska and the Pacific, and has published widely on social science and policy in coastal and marine environments.

Among his selected honors, awards and appointments are:

Scientific and Statistical Committee, Pacific Fisheries Management Council (1979-82);

North Carolina Marine Fisheries Commission (Governor's appointments, one republican, one democrat, 1985-95; Vice-chair, 1994-95);

Chair, North Carolina Ocean Affairs Council (Governor's appointments, one republican, one democrat, 1985-93);

Technical/Management Committee, Albemarle-Pamlico Estuarine Study (EPA National Estuary Program, 1985-1995);

National Advisory Committee, National Coastal Resources Institute (1985-1995);

Praxis Award (with J. Johnson), Washington Association of Practicing Anthropologists (1991);

Founding Board Member, Partnership for the Sounds (1992-present);

Founding Board Member, Marine Affairs and Policy Association, 1993-present;

Visiting Regents Scholar, University of California, Santa Cruz, Spring, 1995

National Research Council Committees on

- 1) Reducing Porpoise Mortality from Tuna Fishing (1989-92);
- 2) the National Sea Grant College Program (1994);
- 3) Science and Policy in the Coastal Ocean (1995);
- 4) Individual Fishing Quotas (1997-1999);

President, The Coastal Society (1995-98);

Advisory/Selection Committee, Pew Charitable Trusts Scholars in Marine Conservation Program (1996-99);

Ocean Studies Board, National Research Council (1997-1999);

Founding Board Member, North Carolina Beaches, Inlets and Waterways Association (1997-present);

National Board of Directors, Surfrider Foundation (2001-present; Chair since 2002);

Advisor, Pew Oceans Commission, 2000-03;

Science Advisory Committee, U.S. Commission on Ocean Policy, 2001-04;

Bevin Lecturer, School of Fisheries and Aquatic Sciences, University of Washington, 2003-4;

President, Southern Association of Marine Laboratories, 2005-present

Board of Directors, National Association of Marine Laboratories, 2005-present

Board of Directors, Consortium for Ocean Research and Education, 2005-present

Science Advisory Committee for Marine Managed Areas, Conservation International and the Gordon and Betty Moore Foundation, 2005-present.

Chair, "Reverse Review" Panel for the NOEN Program, National Science Foundation, 2005

Board of Directors, The Ocean Conservancy (2005-present)

[Full Vitae on request]

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Michael K. Orbach  
Professor of Marine Affairs and Policy and  
Director  
Duke University Marine Laboratory  
135 Duke Marine Lab Road  
Beaufort, NC 28516-9721  
(252)504-7606 (office)  
(252)725-1371 (cell)  
FAX (252)504-7648  
[mko@duke.edu](mailto:mko@duke.edu)

## **CURRICULUM VITAE -- MICHAEL K. ORBACH**

### **CURRENT ADDRESS**

103 Leonda Drive  
Beaufort, NC 28516  
(252) 728-5991  
E-mail: orbox@clis.com

### **CURRENT POSITION**

Professor in the Practice of Marine Affairs and Policy  
And  
Immediate Past Director, Duke University Marine Laboratory  
Director, Coastal Environmental Management Program

Duke University Marine Laboratory  
Nicholas School of the Environment  
Duke University  
135 Duke Marine Lab Road  
Beaufort, NC 28516-9721  
Office (252) 504-7606; Cell (252) 725-1371  
FAX (252) 504-7648  
E-Mail: mko@duke.edu

### **BIRTH DATE AND PLACE**

November 19, 1947 -- Los Angeles, CA

### **EDUCATION**

1975 -- Ph.D., University of California, San Diego, Cultural Anthropology  
1973 -- M.A., University of California, San Diego, Cultural Anthropology  
1969 -- B.A. -- University of California, Irvine, Economics

### **PREVIOUS POSITIONS**

1983-93 -- Professor of Anthropology, Department of Sociology and  
Anthropology;  
Senior Scientist, Institute for Coastal and Marine Resources;  
East Carolina University

1979-82 -- Associate Director, Center for Coastal Marine Studies;

Adjunct Professor, Anthropology Board of Studies;  
Adjunct Professor, Environmental Board of Studies;  
University of California, Santa Cruz

1976-79 -- Social Anthropologist, Office of Resource Conservation and Management, National Marine Fisheries Service;  
Social Science Advisor, Office of Sea Grant;  
National Oceanic and Atmospheric Administration,  
Washington, D.C.

1969-70 -- Instructor in Mathematics and German, Santa Ana Union High School District, Santa Ana, CA

### **COURSES TAUGHT**

- Introduction to Anthropology (Four Field)
- Theory in Anthropology
- Ethnographic Methods
- Applied Anthropology
- Protected Species in a Changing Coastal Environment
- Community-Based Environmental Management
- Social Systems and the Environment
- Anthropology of Maritime People
- Marine Policy
- Marine Fisheries Policy
- Economic Development and Social Change
- Human Values and Environmental Ethics
- Marine Conservation Biology and Policy

### **CONTRACTS, GRANTS AND FUNDRAISING**

Major External Fundraising (in role as Director, Duke University Marine Laboratory)

2000 -- \$3,000,000 for two Endowed Professorships in 1) Marine Conservation Biology and 2) Marine Affairs and Policy, Oak Foundation

2003 -- \$1,000,000 for Lawrence E. Blanchard Society of Fellow and Scholars, Blanchard Family

2004 -- \$2,000,000 for Endowed Professorship in Marine Conservation Technology, Randy Repass and Sally-Christine Rodgers

2004 -- \$1,000,000 for construction of Ocean Science Teaching Center, Randy Repass and Sally Christine Rodgers

2002-2004 -- \$600,000 for construction of Ocean Science Teaching Center, various sources

### **Contracts and Grants**



2005 – B. Murray, T. Crowley, M. Orbach, J. Ramus, M. Smith, National Science Foundation, Coupling Human and Natural Influences on Coastline Evolution as Climate Changes, \$1,198,138

2002 – C. Bonaventura and M. Orbach, National Science Foundation, NSF Graduate Teaching Fellows Program of the Duke University Marine Laboratory, \$988,850

2001 – M. Orbach, NOAA Coastal Services Center, Cooperative Program for Coastal Program Development and Coordination, \$161,797

2001– M. Orbach, NC Department of Environment and Natural Resources, Development of Marine Fisheries Habitat Protection Plans, \$25,000

2000– M. Orbach, NOAA Coastal Services Center, Cooperative Program for Coastal Program Development and Coordination, \$120,879

1998 – M. Orbach, Cooperative Agreement on Science and Policy, Coastal Services Center, NOAA, \$97,000

1998 – M. Orbach, Human Use Mapping and User Coordination Plan for Core Sound, North Carolina, NC Department of Environment and Natural Resources, \$98,000

1996 -- M. Orbach, Limited Entry Alternatives for the Georgia Blue Crab Fishery, State of Georgia, \$49,000

1996 -- M. Orbach, Data Analysis in the Pacific Longline Fishery, National Marine Fisheries Service, \$10,000

1996 -- M. Orbach, Policy Analysis and Application for the Coastal Services Center, NOAA Coastal Services Center, \$54,000

1996 -- M. Orbach, The Island Design Project, Turner Foundation, \$20,000

1996 -- M. Orbach and J. Johnson, Emerging Fisheries Policy: A Longitudinal Analysis, North Carolina Sea Grant College Program, \$28,000

1995 -- M. Orbach and J. Johnson, Limited Entry in North Carolina Fisheries: A Total Systems Approach, North Carolina Sea Grant College Program, \$76,000

1994 -- M. Orbach and J. Johnson, Social Network Analysis of Emerging Fisheries Policy, North Carolina Sea Grant College Program, \$28,890

1993 -- M. Miller and M. Orbach, Small-Scale Pelagic Fisheries in Hawaii, Pacific Pelagics Research Program, University of Hawaii, \$35,000

1993 -- M. Orbach and J. Johnson, Limited Entry in the Florida Stone Crab Fishery: A Multi-Species Approach, Year II. National Marine Fisheries Service, \$87,007

1992 -- M. Orbach and J. Johnson, Multi-Fishery Direct Effort Management: Development of Techniques. North Carolina Sea Grant College Program, \$58,000

1991 -- M. Orbach and J. Johnson, Limited Entry in the Florida Stone Crab Fishery: A Multi-species Approach. National Marine Fisheries Service, \$100,699

1990-92 -- M. Orbach, A Citizen's Water Quality Monitoring Program for the Albemarle-Pamlico Region. Albemarle-Pamlico Estuarine Study, \$120,000 (cumulative)

1989 -- M. Orbach and J. Johnson, An Industry-Derived Framework for Limited Entry in the Florida Spiny Lobster Fishery. Gulf and South Atlantic Fishery Development Foundation, \$65,000

1986 -- M. Orbach and J. Johnson, Socio-Cultural and Economic Aspects of the Florida Spiny Lobster Fishery. Office of Sea Grant, NOAA, \$60,000

1985 -- M. Orbach, Archaeological Investigations of the Pomeiooc Site. North Carolina Division of Archives and History and Friends of North Carolina Archaeology, \$53,000

1984-87 -- M. Orbach and J. Johnson, The Movement of Commercial Fishermen and Vessels among Atlantic Coastal States: Management and Policy Implications. North Carolina Sea Grant College Program, \$95,311 (cumulative)

1984-92 -- W. Queen and M. Orbach, North Carolina Marine Policy Fellowship. North Carolina Sea Grant College Program, \$80,000 (Cumulative)

1982 -- M. Orbach, Social and Cultural Impacts of Management Alternatives for the Monterey Bay Sablefish Fishery. National Marine Fisheries Service, \$6,500

1981 -- R. Gaudino and M. Orbach, A Day on the Bay: Celebration of Italian-American Heritage in the Santa Cruz, CA Fishing Community. Various private individual and foundation contributions, \$60,000

1981 -- B. Cicin-Sain and M. Orbach, U.S.-Mexico Relations on Fisheries Policy. University of California Sea Grant College Program, \$50,023

1981 -- M. Orbach, The Social Impact of Land Use Changes in Moss Landing, CA. U.S. Army Corps of Engineers, \$6,500

1981 -- M. Orbach, Social and Cultural Aspects of the Renegotiation of the North Pacific Fur Seal Convention. Center for Marine Conservation, \$35,000

1980 -- M. Orbach, Social and Cultural Aspect of Fisheries Development in the U.S. Trust Territories of the Pacific. Pacific Marine Fisheries Commission, \$17,500

1980 -- M. Orbach and B. Cicin-Sain, The Role of Individual Perception and Structural Position in the Development of Fisheries Management Policy. University of California Sea Grant College Program, \$10,889

1980 -- M. Orbach, Indochinese Adaptation to the Monterey Bay Fishing Community. University of California Sea Grant College Program, \$9,672

### **COMMITTEES AND APPOINTMENTS (Selected)**

#### External -- Policy

National Science Foundation Committee to review the National Ecological Observatory Network (member, first review panel; Chair, "Reverse Review" panel), 2006

Scientific Advisory Panel, U.S. Commission on Ocean Policy (Presidential Commission), 2002-2004

Pew Oceans Commission, Social Science Advisor, 2001-2004

Ocean Studies Board, National Research Council, 1997-2000

National Research Council Committee on Individual Transferable Fishing Quotas, 1997-1999

Panel on Ecosystem Principles in Fisheries, National Marine Fisheries Service (Congressionally-mandated, National Academy of Science-recommended panel), 1997-1999

National Research Council Committee on Science and Policy in the Coastal Ocean, 1995-96

Chair (elected), Carteret County Beach Preservation Task Force, 1996-1999; member, 1996-present

North Carolina Marine Fisheries Commission, 1985-1995 (Governor's Appointment);

Commission Vice Chair (elected), 1994-1995;  
Chair, Saltwater Recreational License Committee, 1994-95;  
Chair, Blue Crab Committee, 1994-95;  
Chair, Bycatch Review Committee, 1990-91  
Chair, License Review Committee, 1988-89;  
Chair, Regulation Review Committee, 1986-88;

Chair, North Carolina Ocean Affairs Council, 1985-1993 (Governor's appointment)

Board of Directors, Partnership for the Sounds, 1992-present

National Academy of Science Committee on the Sea Grant College Program, 1994

Technical Committee, Albemarle-Pamlico Estuarine Study; Chair, Public Involvement Subcommittee, 1986-1994

North Carolina State-Federal Ocean Phosphates Task Force, 1986-1992 (Governor's appointment)

National Academy of Science Committee on Tuna-Porpoise Mortality, 1989-91

Environmental Science Review Panel (National Academy of Science-based panel to review Mobil Oil Consortium proposal for OCS development off North Carolina; joint Governor-Secretary of Interior appointment), 1990-92

Scientific and Statistical Committee, Pacific Fisheries Management Council, 1979-82

Santa Cruz City Museum Commission, 1980-82

#### External – Professional

Member, Board of Directors, The Ocean Conservancy, 2006-present

Member, South Carolina Sea Grant College Program Advisory Board

Member, Science Advisory Board, Gulf of Maine Research Institute, 2006-present

Member, Board of Directors, National Association of Marine Laboratories, 2005-present

President, Southern Association of Marine Laboratories, 2005-6

Board of Directors, Surfrider Foundation, 2001-present; Chair, 2002-2005

Board of Directors, North Carolina Shore and Beach Preservation Association, 1998-present

Board of Directors, Carolina Coastal Classrooms Foundation, 2002-present

President, The Coastal Society (1995-1998; Past President, 1998-2001)

Advisory Board, Pew Scholars Program, 1996-2000

Board of Directors, Marine Affairs and Policy Association, 1991-present

National Advisory Board, National Coastal Resources Institute, 1985-1995

Nominations Committee, American Anthropological Association, 1980-81; Chair, 1981

Chair, Social Impact Assessment Committee, Society for Applied Anthropology, 1979-85

Publications Policy Committee, Society for Applied Anthropology, 1979-85

### University

Duke University, Nicholas School of the Environment

Admissions and Awards Committee, 1993-present

Education Committee, 1993-present

Coastal and Marine Science and Policy Task Force, 1998-2000

Faculty Advisory Council, 2001-present

East Carolina University

Chancellor's Committee on the Status of Women, 1990-93

Vice-Chair 1992-93 (elected)

Vice-Chancellor's Committee on Tenure and Promotion, 1987-92

University of California, Santa Cruz

Chancellor's Advisory Committee for Ethnic Studies, 1980-82

Chancellor's Advisory Committee on Academic Administrators, 1981-82

Advisory Committee, Merrill College Field Program for Experiential Learning, 1979-82

Chancellor's Advisory Committee for the Board of Environmental Studies, 1980-82

Career Planning and Placement Advisory Committee, 1981-82

### Editorial

Editorial Review Board, *Coastal Management Journal*, 1980-present

Anthropology Editor, *Journal of Contemporary Ethnography*, 1985-89

Contributing Editor, *Practicing Anthropology*, 1979-85

## **LEGISLATIVE INVOLVEMENT**

### Assistance in Drafting of Legislation

Georgia General Assembly, Blue Crab Fishery Limited Entry Legislation, 1997

North Carolina General Assembly, Marine Fisheries Moratorium Legislation, 1994; Fisheries Reform Act, 1997

North Carolina General Assembly, Legislation to abolish the Marine Science Council and establish the Ocean Affairs Council, 1992

Florida Legislature, Spiny Lobster Trap Certificate Program Legislation, 1991

### Testimony

Moderator and Summary Speaker, Symposium on “The Coral Reef Crisis”, U.S. House of Representatives, May 31, 2002 (sponsored by the House Oceans Caucus)

U.S. Senate, Committee on Science, Commerce and Transportation, Subcommittee on Fisheries and Wildlife, on the reauthorization of the Magnuson-Stevens Fishery Conservation and Management Act, May, 2001

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the Core Sound Human Uses Mapping Project, January, 1999

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on provisions for a saltwater recreational fishing license, February, 1997

North Carolina General Assembly, Shellfish Task Force, Joint Study Commission on Seafood and Aquaculture, on the documentation of human use of marine resources, November-December, 1996

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the potential for a commercial fisheries license moratorium, April-May 1994

North Carolina General Assembly, Joint Study Commission on Seafood and Aquaculture, on the proposal for a saltwater recreational fishing license, December, 1993

U.S. Senate, Committee on Science, Commerce and Transportation, on marine fisheries policy, June, 1992

North Carolina General Assembly, House Environment Committee, on the restructuring of the North Carolina Marine Science Council, May, 1992

Florida Legislature, House and Senate Natural Resource Committees, on the Florida Spiny Lobster Trap Certificate System, February-March, 1991

U.S. House of Representatives, Committee on Merchant Marine and Fisheries, on behalf of the State of North Carolina concerning the extension of coastal state jurisdiction, May, 1989

### **CONSULTANCIES**

Pew Oceans Commission, Marine Fisheries Policy and Ocean Governance, 2001-2004

Pew Charitable Trusts and Rockefeller Brothers Foundation, Constituent-Based Marine Fisheries Policy and Management, 1995-97

South Atlantic and Western Pacific Fishery Management Councils, Policy for Highly Migratory Marine Fish Species, periodically 1986-92.

Gulf of Mexico Fisheries Management Council, Effort Management in Gulf of Mexico Fisheries, 1992-present

State of Hawaii, Ocean Management Planning, 1990-91

University of New Orleans, Social Impacts of Turtle Excluder Devices, 1990-91

North Pacific Fisheries Management Council, Social Impact Assessment and Effort Management, 1993-present

Minerals Management Service, U.S. Department of Interior, North Carolina OCS Socioeconomic Study, 1992-94

Member, Board of Advisors, "The Blue Revolution", documentary film series on man's relationship with the sea, Mare Nostrum Foundation, Washington, D.C., 1982-89

Island Resources Foundation, St. Thomas/Washington, D.C., Fisheries Development in the Caribbean, 1985-87

Honorary Consultant, Survival Service Commission, International Union for the Conservation of Nature, 1981-84

Social Science Advisor to Gulf of Mexico Shrimp and Menhaden Management Plan Task Forces, 1977-79

California Coastal Commission, Socio-economic Impact of OCS Development, 1980

Reviewer for:

National Science Foundation  
Office of Sea Grant and Sea Grant College Programs  
Social Science Research Board of Canada  
American Anthropologist  
Human Organization  
American Ethnologist  
Fisheries  
North American Journal of Fisheries Management

Various Presses and Specialty Journals

## **HONORS AND AWARDS**

Honor Scholar in Economics, University of California, Irvine, 1969

Regents Fellow, University of California, San Diego, 1973

Nominated to the Center for Advanced Study in the Social Sciences, Stanford University, 1978

Nominated for the Margaret Mead Award, Society for Applied Anthropology, 1982

National Praxis Award (with J. Johnson), Washington Association of Practicing Anthropologists (for outstanding contributions to the application of anthropological knowledge), for research, design and implementation of a new policy and management system for the Florida spiny lobster fishery), 1991

Nominated for Pew Scholars Program, 1994-95; 1995-96

Visiting Regent's Scholar, University of California, Santa Cruz, Spring, 1995

Plenary Speaker, American Fisheries Society Annual Meeting, Baltimore, MD, August 2002

Roger Revelle Memorial Lecture Speaker, National Academy of Science and Engineering, Washington, D.C., November 2002

Bevin Lecturer, School of Fisheries and Aquatic Sciences, University of Washington, 2003-4

## **PROFESSIONAL ASSOCIATIONS**

Fellow, American Anthropological Association

Fellow, Society for Applied Anthropology

Member, American Fisheries Society

Member, Marine Affairs and Policy Association

Member, The Coastal Society

*Updated 2-15-07*



NOMINATION FOR MEMBERSHIP  
NATIONAL SCIENCE BOARD

**Nominee:**

Shirley Pomponi  
President and Chief Executive Officer of  
Harbor Branch Oceanographic  
Institution,  
Chair, National Academy of Science  
(NAS) Ocean Studies Board

**Nominator:**

Anthony Michaels  
President, National Association of  
Marine Laboratories (NAML)

**Nominee's Year and Place of Birth:**

July 19, 1949  
Wilmington, Delaware, USA

**Biographical Sketch:** (see attached)

## SHIRLEY A. POMPONI, Ph.D.

Harbor Branch Oceanographic Institution  
5600 U.S. 1 North  
Fort Pierce, FL 34946  
Phone: 1-772-465-2400, ext. 449  
Fax: 1-772-465-7156  
e-mail: [pomponi@hboi.edu](mailto:pomponi@hboi.edu)

Shirley Pomponi is President and Chief Executive Officer of Harbor Branch Oceanographic Institution. Dr. Pomponi received her Ph.D. in Biological Oceanography from the University of Miami, was a member of the research faculty at the University of Maryland, and joined Harbor Branch in 1984. She has authored or co-authored more than 80 publications in marine biotechnology, biodiversity, cell and molecular biology, systematics and natural products chemistry, and is a co-inventor on several patents. Her research focuses on sponge taxonomy, cell biology, chemical ecology, and production of chemicals with therapeutic potential. Dr. Pomponi has led numerous research expeditions worldwide. She is an affiliate faculty member at Florida Atlantic University and on the graduate faculty at the Florida Institute of Technology. Dr. Pomponi has held numerous positions in advising ocean policy, including an appointment to the President's Panel on Ocean Exploration, several National Research Council Committees, and the Scientific Advisory Panel to the U.S. Commission on Ocean Policy. She chairs the National Research Council's Ocean Studies Board, and is on the Executive Committee of the Consortium for Oceanographic Research and Education (CORE), the Florida Oceans and Coastal Resources Council, the Ocean Research and Resources Advisory Panel, the Board of Directors of BIOFlorida, the U.S. National Committee for the Census of Marine Life, the Board of Trustees of Midwest Research Institute, and the Board of Trustees of the Women Divers Hall of Fame.

### EDUCATION:

<u>Institution</u>	<u>Major</u>	<u>Dates Attended</u>	<u>Degree</u>
College of St. Elizabeth	Biology(summa cum laude)	1967-1971	B.A.
University of Miami, RSMAS	Biological Oceanography	1971-1974	M.S.
University of Miami, RSMAS	Biological Oceanography	1975-1977	Ph.D.
University of Miami, RSMAS	Biological Oceanography	1978-1979	post-doctoral

### POSITIONS AND EMPLOYMENT:

<u>Dates</u>	<u>Organization</u>	<u>Position</u>
10/04- present	Harbor Branch Oceanographic Institution	CEO and President
4/04 – present	Harbor Branch Oceanographic Institution	Acting Managing Director
4/02-4/04	Harbor Branch Oceanographic Institution	Vice President & Director of Research
3/94-4/02	Harbor Branch Oceanographic Institution	Division Director
7/91-9/92	Harbor Branch Oceanographic Institution	Acting Division Director
2/28-3/94	Harbor Branch Oceanographic Institution	Group Leader, Sample Acquisition
12/84-02/88	SeaPharm, Inc.	Consultant and Group Leader
10/79-12/84	University of Maryland, CEES/HPEL	Res. Assoc., Assistant Res. Scientist
6/78-9/79	University of Miami, RSMAS	Research Associate
1/78-6/78	University of Miami, RSMAS	Postdoctoral Fellow
6/74-1/75	Sea Grant Advisory Services, Univ. Miami, FL	Assistant to the Director

## **OTHER PROFESSIONAL EXPERIENCE:**

2005-2008 Member, Florida Oceans and Coastal Resources Council  
2005-2009 Member, Ocean Research and Resources Advisory Panel  
2005-2008 Chair, National Academy of Science (NAS) Ocean Studies Board  
2003-2005 Member, National Academy of Science (NAS) Ocean Studies Board  
2004-2005 Delegate, Scientific Committee on Oceanic Research  
2003 Member, NAS Committee on Future Needs in Deep Submergence Science  
2003-2006 Member, U.S. National Steering Committee, Census of Marine Life  
2003-present Florida Ocean Alliance, Board of Directors  
2002-present Member, Board of Governors & Executive Committee, Consortium for Oceanographic Research & Education (CORE)  
2002-2004 Member, Science Advisory Panel, U.S. Commission on Ocean Policy  
2001-2003 Vice Chair, NAS Committee on Exploration of the Seas  
2001-2002 Member, NAS Committee on Marine Biotechnology  
2001-present Board Member, Florida Biotechnology Industry Organization (BIOFlorida)  
2000 Member, President's Panel on Ocean Exploration  
1998-1999 Member, NAS Committee on the Ocean's Role in Human Health

## **RECENT HONORS:**

2006 Fellow Award, Society for In Vitro Biology  
2004 Society for In Vitro Biology, Senior Investigator Award for excellence in research, contributions and achievements in the field of Marine and Comparative Biology  
2003 Member, Women Diver's Hall of Fame

NOMINATION FOR MEMBERSHIP  
NATIONAL SCIENCE BOARD

**Nominee:**

Kenneth P. Sebens  
Director, Friday Harbor Laboratories,  
University of Washington

**Nominator:**

Anthony Michaels  
President, National Association of  
Marine Laboratories (NAML)

**Nominee's Year and Place of Birth:**

June 15, 1950  
Bridgeport, Connecticut, USA

**Biographical Sketch:** (see attached)

**PRESENT ADDRESS**

U.W. Friday Harbor Laboratories, 620 University Rd., Friday Harbor, WA 98250  
and Department of Biology, University of Washington, Seattle WA 98195  
phone: 206 616 0764 fax: 206 543 1273 email: sebens@u.washington.edu

**EDUCATION**

B. A. with Honors, Biology, 1972, University of Connecticut, Storrs, CT  
Ph.D., Zoology, 1977, University of Washington, Seattle, WA

**ACADEMIC POSITIONS**

Assistant Professor, Department of Organismal and Evolutionary Biology,  
Harvard University (1977 - 1982), Associate Professor, (1982 - 1985)  
Assistant Curator of Invertebrates, Mus. Comparative Zoology, Harvard (1979 - 1982)  
Associate Curator, MCZ, Harvard (1982 - 1985), Research Associate (1985 - present)  
Associate Professor of Biology, Northeastern University (1985 - 1986)  
Director, Marine Science Center, Northeastern University (1985 - 1991)  
Professor of Biology, Northeastern University (1986 - 1992)  
Acting Associate Dean of Arts and Sciences, Northeastern Univ. (1986 - 1987)  
Adjunct Faculty, Northeastern University (1992 - present)  
Adjunct Faculty, U.M. System, Center for Environmental Science, Horn Pt. Environmental  
Labs (1993 - 1994, 1997 - 2004), Professor (1994 - 1997)  
Director, Marine-Estuarine-Environmental Sciences Graduate Program,  
University of Maryland System (1991 - 1997)  
Professor, Zoology/Biology, University of Maryland (1991 - 2005)  
Adjunct Faculty, University of Rhode Island (1999 - 2005)  
Professor, Biology, University of Massachusetts Boston (2003 - 2005)  
Dean, College of Science and Mathematics UMass Boston (2003 - 2005)  
Professor, Department of Biology, University of Washington, Seattle (2005 - present)  
Director, UW Friday Harbor Laboratories, Friday Harbor, WA (2005 - present)

**HONORS RECEIVED**

B. A. with Honors, Honors Program, University of Connecticut, 1972  
Mercer Award, Ecological Society of America, 1983 for "Outstanding  
Ecological Paper, 1982"  
Fellow, American Association for the Advancement of Science, 1986  
Phi Kappa Phi, Faculty Membership, 1987  
Fulbright Senior Scholar, Award for 1998 - 1999

## **PROFESSIONAL SOCIETIES**

American Society for Limnology and Oceanography  
The Oceanographic Society, A.A.A.S., Sigma Xi  
Ecological Society of America, Society for Integrative and Comparative Biology  
International Society for Reef Studies

## **ADVISORY AND EDITORIAL POSITIONS**

Aquatic Ecosystems Panel of A.A.A.S./National Park Service- project on Methods for Environmental Studies (1981 - 1982)  
Marine Science Fund Advisory Board, Friday Harbor Laboratories, U.W. (1976 - 1983)  
Board of Directors, Organization for Tropical Studies (1981 - 1985), Board of Editors, Journal of Exp. Mar. Biol. Ecol. (1984 - 1989)  
Board of Directors, Mass. Bay Marine Studies Consortium (1985 - 1990)  
Panel Member, National Science Found., Biological Research Resources (1986)  
Scientific Review Committee, Harbor Branch Oceanographic Inst. (1985)  
Citizens Advisory Committee, S. Essex Sew. Div., Salem, MA (1986 - 1987)  
Technical Advisory Group, Mass. Exec. Off. Environmental Affairs (1987 - 1989)  
Mass. Bay Program, Technical Advisory Committee. (1988 - 1989)  
Boston Harbor/Mass. Bay Univ. Research Consortium, member (1987 - 1989)  
Mass. Audubon Resources for the North Shore, Coastal Monitoring Program Advisory Committee (1987 - 1990)  
American Society of Zoologists, Centennial Committee, Nominating Committee, Centennial Local Committee (Chairperson) (1986 - 1989)  
Ecological Society of America, Awards Committee, (1984 - 1989)  
Editor, Marine Flora and Fauna of the Northeastern United States, N.O.A.A. Tech. Repts. Ed. Board, Assoc. Coordinator.(1988 - 1997), Editor (1997 - present)  
National Science Foundation Review Panel, Biological Oceanography (October 1989, July 1993, 1999)  
National Science Foundation Review Panel, LTER (December 1997)  
International Society for Reef Studies, Gov. Board Member, (1992 – 1997)  
Visiting Committee, external review, Smithsonian Envir. Research Center (1997)  
Pew Fellows Program, Nominating Committee (1997 – 1998)  
New England COSEE Advisory Committee (2004-2005)  
Marine Resources Committee, San Juan County WA (2005-present), Chair: Science Subcommittee (2007-present)  
SeaDoc Society, Science Advisory Committee (2005 - present)  
NAML (Natl. Association of Marine Laboratories), Board Member (2006 - present)  
WAML (Western Society of Marine Laboratories), President Elect (2007 – present)

## GRANTS AND FELLOWSHIPS AWARDED

- Doherty Foundation Fellowship, Smithsonian Tropical Research Institute (1974) \$2,200  
National Science Foundation Dissertation Improvement Award (with R.T. Paine, 1975 - 1977) \$2,400  
Harvard University: Milton Fund, 1977 - 1978, President's Fund for Innovative Teaching (Tropical Ecology course, with T. Givnish 1978 - 1979), Clarke Fund (1979 - 1980), Tozier Fund (1980 - 1981), Milton Fund (1981 - 1985)  
National Oceanic and Atmospheric Administration (N.O.A.A.) National Undersea Research Program (N.U.R.P.) Effects of Water Movement on Corals. (1984) \$7,800, (1985) \$5,850 and use of Hydrolab underwater laboratory (St. Croix) for two weeks (2 awards)  
N.O.A.A./N.U.R.P. Effects of Water Movement on Coral Feeding, Aquarius Underwater Laboratory, St. Croix. (1988) \$27,900 plus 2 weeks use of underwater laboratory.  
N.O.A.A./N.U.R.P. Ecology of Rocky Subtidal Benthos in the Gulf of Maine (with J. Witman). Six separate annual grants, including ship/submarine. 2 days ship and submersible (Mermaid 2) time, 1984: 4 days (Johnson Sea-Link) 1985: 3 days (Johnson Sea-Link) 1986: 7 days (Seaward Expl./Nitrox) 1987:\$5,000 and 15 days (Nekton Delta, Johnson Sea-Link) 1987; \$2,000 and 6 days (Nekton Delta, Johnson Sea-Link) 1988, 8 days (Seaward Expl/Nitrox), 1989 (Johnson Sea Link)  
N.S.F. Grant OCE 78 08482. The Effect of Prey Resource Availability on Growth and Competitive Success in a Space Limited Community (1978 - 1980) \$83,000  
N.S.F. Grant OCE 80 17923, The Effect of Resource Availability II (1980 - 1982) \$131,000  
N.S.F. Biological Research Resources Program Grant #DEB 80 19732. Coelenterate Collection (MCZ) Relocation and Renovation (with H. Levi, 1981 - 1982) \$82,000  
N.S.F. Grant OCE 83 08958, The Effect of Resource Availability III (1983 - 1985) \$121,000; Supplement (1984 - 1985) \$20,000  
N.S.F. Grant OCE 85 9835. The Effect of Resource Availability on Competitive Success in a Space-Limited Community (1985 - 1988). Accomplishment Based Renewal, \$185,000  
N.S.F. Biological Research Resources Program Grant #BSR 6973, Improvements to the general facilities of M.S.M.S.C., Northeastern University, Nahant MA (1985 - 1986). \$33,000  
N.S.F. Biological Research Resources Program Grant #86 05414. Facilities Improvements for the M.S.M.S.C. (1986 - 1988). \$39,000  
Marion and Jasper Whiting Foundation. Current Trends in Coral Reef Ecology and Tropical Marine Biology. (1990 - 1991). \$5,400  
N.S.F. Ocean Sciences. Coastal Research Vessel 'R. V. Mysis.' transfer to Northeastern University (incl. \$5,000 outfitting) (ass. value \$160,000); (P.I., with M.P. Morse, J.D. Witman Co-P.I.s)  
N.S.F. Instrumentation Award. Development of a Biological Image Processing System. J. Ayers, P.I. (K. Sebens, J. Witman, M.P. Morse co-P.I.s). (1989 - 1991). \$27,000  
N.S.F. U.S./Australia Cooperative Research Program. The Effects of Water Movement on Zooplankton Capture by Corals. (1991), \$24,190 supplement  
N.S.F. Biological Research Resources Program, Improvements to the General Facilities of M.S.C., Northeastern University, Nahant, (1990 - 1992) \$160,000 (plus \$160,000 cost-sharing from N.U.) \$320,000 total (P.I., with J. Ayers, J. Witman, M.P. Morse Co-PIs)  
Mass. Water Resources Authority. Rocky Subtidal Studies: Outfall Siting Study. Subcontract through Camp Dresser & McKee and Battelle Inc. (1987, with J. Witman Co-P.I.) \$20,500  
Mass. Water Resources Authority. Monitoring Rocky Subtidal Communities in Broad Sound, MA. (1991 - 1992, with J. Witman Co-P.I.) \$40,000  
N.O.A.A./N.U.R.P., Zooplankton Capture by Corals. (1989 - 1990) \$32,000 plus use of Aquarius Underwater Laboratory, St. Croix.  
N.O.A.A./N.U.R.P. Epifaunal Community Dynamics Along Onshore-Offshore Gradients in the Gulf of Maine, 6 days NITROX ship time, 3 days submersible time on Johnson Sea Link. (1990). \$8,146 science support (co-PI with J. Witman, P.I.)  
N.O.A.A./N.U.R.P. Long Term Dynamics of Epifaunal Invertebrate Communities in Deep Rocky Subtidal Habitats in the Gulf of Maine: A Regional Perspective. (1991 - 1992, Co-P.I. with J. Witman, P.I.) \$9,230, incl. 7 days Nitrox Support, 2 days Johnson Sea Link submersible.

N.O.A.A./N.U.R.P. Water Movement and Zooplankton Capture by Corals.(1992 –1 993) \$18,700 plus use of Nitrox diving facilities, Key Largo, FL.

N.O.A.A./N.U.R.P. Water Movement and Zooplankton Capture by Corals. ( 1993 - 1994). \$18,200 plus use of Aquarius underwater laboratory for two weeks

N.S.F. Biological Oceanography, #OCE 8900144. Community Ecology of the Rocky Subtidal Zone: an Integrated Life History Approach. (1989 - 1993) \$258,000

N.S.F. Biological Oceanography. #OCE8911421. Zooplankton Capture by Corals: the Effects of Water Movement Under Field Conditions. (1989 - 1992) \$88,000

Smithsonian Institution, N.M.N.H. Coral Reef Ecosystem Studies (1992). Four weeks use of Carrie Bow Cay Lab., Belize (with J.E.N. Veron, 4 persons) incl. Airfare, lodging, plus \$1800 travel

Smithsonian Institution, Caribbean Coral Reef Ecosystem Studies, 4 weeks use of Carrie Bow Cay Laboratory, Belize (1994, with B. Helmuth) \$1500 plus above, (1995, \$850 plus above)

Smithsonian Institution, NMNH,Caribbean Coral Reef Ecosystem Studies, Four weeks use of Carrie Bow Cay Laboratory, Belize, incl. airfare, hotel, boats, meals (1996, 4 persons) ( 1997, for 7 persons) (March 2000 and July 2002, for 6 persons)

N.O.A.A./N.U.R.P. Water Movement and Zooplankton Capture by Corals. (1994 - 1995). \$18,500 plus use of Aquarius underwater lab. for two weeks, (1995 - 1996). \$15,000

N.S.F. Biological Oceanography. Zooplankton Capture by Corals: Effects of Water Movement and Prey Escape (1993 - 1996) \$350,000 (with J. Purcell, Co-PI)

N.S.F. International Programs, Supplement to above, Belize (1996 - 1996) \$20,000

Univ. of Maryland, UMCP International Travel Fund. Travel to Belize for Research at Smithsonian laboratory (1996) \$650

N.S.F. Envir. Biology/Biol. Oceanography (LTREB). Community Ecology of Rocky Shores; Long -Term Research in the Subtidal Zone (Mass. 1978 - 1998) (1996 - 1998), \$100,000

National Undersea Research Program (NOAA/NURC). Zooplankton Capture by Reef Corals (1999) \$19,000 plus use of Aquarius Underwater Laboratory (K.Heidelberg, J. Bythell co-inv.) Corals, (2000 - 2001) \$20,000 plus use of Aquarius Underwater Laboratory

Univ. of Maryland, GRB Semester Research Award (Spring 1999), semester salary (sabbatical)

Fulbright Senior Scholars Program. U.S. Israel Educational Foundation. Coral Reef Ecology. \$23,000. February - August 1999 (award not accepted, time conflict with other awards)

#### **GRANTS AWARDED/ACTIVE (LAST FIVE YEARS, since 2002)**

N.S.F. Biological Oceanography. Nutrition of Reef Corals, Effects of Morphology, Resource Availability, and Water Flow. (1998 - 2003), \$350,000

Smithsonian Institution, NMNH, Caribbean Coral Reef Ecosystem Studies, Two weeks use of Carrie Bow Cay Lab., Belize, with B. Helmuth, E. Carrington (2002, 2003)

N.S.F. Envir. Biology/Biological Oceanography (LTREB). Community Ecology of Rocky Shores; Long-Term Res. in the Subtidal Zone (Mass. 1978 - 2004), (awarded 1998 - 2004) \$300,000

Ocean Technology Innovation Collaborative (UMass Boston and UMass Dartmouth), President's Science and Technology Fund (L. Goodman, Co-PI) (2004-2005) \$90,000

NSF Field Stations and Marine Laboratories Program. Modernization of Computer, Communications, and Data Management Equipment at the Nantucket Field Station. U. Mass Boston (S.Oktay-Quigley PI, G. Beck, W. Robinson, W. Dripps Co-PIs) (2005-2006) \$48,685



## Ph.D. DISSERTATION

Sebens, K. P. 1977. Habitat suitability, reproductive ecology, and the plasticity of body size in two sea anemone populations (*Anthopleura elegantissima* and *A. xanthogrammica*). University of Washington, Department of Zoology. 257 pp. Advisor: Robert T. Paine

## COURSES TAUGHT

### Harvard University (1977 - 1984):

Nature and Regulation of Marine Ecosystems, Spring 1977, 1980, Fall 1981, with J. McCarthy and R. Turner (Biology 255, G).  
Invertebrate Zoology, Fall 1977, 1978, 1979, 1980, 1981, 1984, with H. Levi, 1982, 1983 with K. Boss (Biology 10a, U).  
Population and Community Ecology, Spring 1978, 1979, 1980 (Biology 154, G) also 1982, 1984 with W. Bossert.  
Benthic Marine Ecology, Spring 1979, 1981, 1983 (Biology 254, G).  
Tropical Ecology, Fall 1978, 1980, 1982, 1984 with T. Givnish, O. Solbrig, P. Ashton (Biology 250, G), Harvard University and University of the Andes, Merida, Venezuela.  
Selected Topics in Population and Community Ecology, Spring 1980, with R. Cook and T. Givnish (Biology 251, G).  
Topics in Community Ecology, Fall, 1977 - 1985, each semester (Biology 343, G). Supervised research, 1978 - 1985 (Biology 90r, U). Supervised readings, undergraduate, 1977 - 1984 (Biology 91r, U).  
Population Biology: Ecology (Biology 19, U). Spring 1982, 1983, 1984.  
Introductory Ecology, Spring 1979, 1980, 1981, 1982, with B. L. Thorne, 1982, 1984, 1985, 1986, 1987, 1988 (Harvard Extension E19c, U)  
Introductory Biology (for non-majors, U), Fall 1973, with S. Waltz, Dept. of Zoology, Univ. of Washington).  
Advanced Population Biology, Fall 1981, with O. Solbrig, E. Pianka, J. Silva, S. Newell. University of Puerto Rico, Rio Piedras, P.R. (U, G).  
Rocky Shore Ecology, 1982, with J. R. Lewis. Friday Harbor Laboratories, U. Washington (U,G).  
Marine Biology, Summer 1983, 1984, with R. R. Olson and R. Woollacott. 1985, 1986, 1987, 1988, 1989, 1990 with R. Etter., J. Choe Harvard (U)

### Northeastern University 1983 - 1991:

Adaptations of Marine Organisms, Summer 1983, with D. Cheney and M. Patterson. Northeastern University, M. S. C. (U, G)  
Benthic Marine Ecology, Summer 1985, 1986, 1987, with J. Witman. Northeastern (U, G)  
Diving Research Methods, 1986, 1987, 1988, 1989 with R. Etter, G. Boden and J. Witman. Northeastern University, M. S. C. (U)  
East/West Marine Biology Program, (Northeastern Univ., Univ. of Oregon joint program), Director 1985 - present. Lectures in courses: Coral Biology, Coastal Biology, Adaptations of Marine Organisms  
Biology of Corals and Coral Reefs, 1987, 1988, 1989, 1992 with J. Witman, J. Veron, Northeastern Univ. M.S.C. (U, G) at Discovery Bay Marine Lab, Jamaica  
Population Biology of Marine Organisms, winter 1987, with J. Witman, Northeastern Univ. (G)  
Biomechanics, winter 1990, with M. Patterson, Discovery Bay Marine Lab Jamaica, (U-UG)  
Ocean & Coastal Processes, spring 1990, 1991, with P. Rosen, Northeastern U., M.S.C. (U-UG)

### University of Maryland (1992 - 2004) (G, graduate level, U, undergraduate):

Marine Ecology Seminar (MEES 608A). Fall 1992, 1993, 1995, 2001 (G)  
Benthic Ecology (MEES 698K) Fall 1993. (G), with K. Tenore, R. Newell (1/4 of 3 cr course)  
Special Topics: Hydrodynamics and Benthic Ecology (MEES 698). Summer 1993. (G)  
Biological Oceanography (ZOOL 375) (U) (3 cr.) Spring 1994 with J. White, Spring 1996 with D. Mann, Spring 1993, 1995, 1998, 2002 with M Palmer, Spring 2000 with J. Merrill  
Marine Community Ecology (ZOOL 677, MEES 698A). (4 cr.) Spring 1995, 1997, 2000, 2003 (G)  
Honors research. (ZOOL. 399H), each semester 1993-present (U), (ZOOL328Z). Fall 1994 (U)  
Special Problems in Zoology. (ZOOL.319). Fall 1994 - present (U)  
Special Problems (MEES 699). Spring, Fall 1994, Spring 1996 (G)  
Honors Research (ZOOL 318h) (2 cr.) Fall/Spring 1995 (U)

Special Problems in Zoology (ZOOL 319) (2cr), Spring 1995 - Spr. 1997 (U)  
Seminar: Larval Ecology (MEES 608A) (2cr.) (with D. Breitburg), Fall 1995 (G)  
BEES Seminar (ZOOL 608E) (1 - 2 cr.) (with C. Fenster), Fall 1996, Spring 1997 (G)  
Honors Seminar (ZOOL 308H) (1 cr.), Fall 1997, Spring 1998 (U)  
Oceanography Laboratory (ZOOL 338R). ( 2 cr.) Spring 1998 - 2002 (U)  
Marine Biology Research (Univ. Rhode Island, BBSR) (6 cr.) 2000 (U)

University of Washington (2005 - present) (G, graduate level, U, undergraduate):  
Ecology Seminar (with J. Ruesink) 2006, 2007 (1 cr.) (G)  
Marine Benthic Ecology Research Apprenticeship (with M. Dethier) (6 cr.) 2007 U)

### **NATIONAL/INTERNATIONAL MEETINGS ORGANIZED:**

Population Biologists of New England, Harvard University (November 1977) with R. Cook, T. Givnish, B. L. Thorne  
Benthic Ecology Meetings, Harvard University (March 1982) with R. Turner  
Boston Harbor, Mass. Bay Conferences, with Mass. Bay Cons. (October 1985, 1986, 1987)  
Centennial Meeting, Amer. Soc. Zoologists (December 1989, Co-host, Planning Committee Presentation)  
8th International Coral Reef Symposium, Symposium organizer (for June 1996 meeting, Panama ) with A. Genin. Special session on water flow effects on reefs.  
American Society of Limnology and Oceanography. February 1999. Santa Fe, N.M., Organizer, with A. Genin., symposium on zooplanktivory in lakes and oceans.

### **PAPERS PRESENTED AT SCIENTIFIC MEETINGS (1996 - present):**

American Society for Limnology and Oceanography. San Diego, CA. Feb. 1996  
Scale Effects in Coral Reef Communities  
8th International Coral Reef Symposium, Panama City, Panama, June 1996  
Adaptive Responses to Water Flow: Morphology , Energetics and Distribution of Reef Corals (also co-author on three other papers for this meeting)  
American Association of Underwater Scientists. Invited Keynote. Long-term research in the rocky subtidal zone (Mass. 1977 - 1997). November 1997  
American Society for Limnology and Oceanography. San Diego, CA. Feb. 1998  
Three presentations, with M. Mills, K. Heidelberg, T. Shyka presenters.  
Heidelberg, K., K. P. Sebens and J.E. Purcell 1999. Zooplankton escape behavior from coral predators. Amer. Soc. Limnol. Ocean. Aquatic Sciences Mtg., Santa Fe, NM. Abstracts.p. 82  
Sebens, K.P. 1999. Marine bioinvasions in the rocky subtidal zone (MA 1977 - 1998).  
First National Conference on Marine Bioinvasions, M.I.T., Cambridge, MA Proc. (in press).  
Sebens, K. P. 1998. A model of coral zooplankton capture. Int. Society for Reef Studies, European Meeting, Perpignan, France. September 1998.  
Sebens, K.P. 1999. Long term community studies in the subtidal zone. R.T. Paine Symposium. Do species matter? Washington  
Heidelberg, K. and K. P. Sebens. 2001. Zooplankton distribution on coral reefs; implications for coral prey capture. Amer. Soc. Limnol. Ocean. Aquatic Sciences Mtg., Santa Fe, NM.  
Sebens, K.P., J. Witting and C. Ferrier-Pages. 2001. Zooplankton capture by reef corals: effects on tissue and skeletal growth. Amer. Soc. Limnol. Ocean. Aquatic Sciences Mtg., Santa Fe, NM.  
Sebens, K.P., J. Witting and C. Ferrier-Pages. 2001. Zooplankton capture by reef corals enhances tissue and skeletal growth. 30<sup>th</sup> Annual Marine Benthic Ecology Meetings, Durham N.H.  
Agius, B.P. and K. P. Sebens 2001. Long-term studies of the Massachusetts rocky subtidal zone, 1978 - 2000. Amer. Soc. Limnol. Ocean. Aquatic Sciences Mtg., Santa Fe, NM.  
Agius, B.P. and K. P. Sebens 2001. Multidecadal community ecology: research in the rocky subtidal zone of Massachusetts (1978 - 2000). 30<sup>th</sup> Annual Marine Benthic Ecology Meetings, Durham, N. H.  
Badgley, B.D., F. Lipschultz, and K. P. Sebens. 2001. Nitrate uptake by a Bermudian scleractinian Coral, *Diploria strigosa*, under realistic environmental conditions. 30<sup>th</sup> Annual Marine Benthic Ecology Meetings, Durham, N. H.  
Gerald, N.R. and K. P. Sebens. 2001. Rocky subtidal community ecology: comparison of photographic and video sampling of benthic surfaces. 30<sup>th</sup> Annual Marine Benthic Ecology Meetings, Durham, N.H.

Sebens, K.P. 2001. Long term population dynamics of nudibranch mollusks in New England. World Congress of Malacology. Vienna, Austria

Sebens, K.P. 2002. Size gradients in intertidal and subtidal marine invertebrates: the role of energetic and mechanical limits. SICB, Anaheim, CA

Sebens, K.P. 2002. Water flow, growth and energetics of corals in Belize. Benthic Ecology Meetings, Orlando, FL

Sebens, K.P. 2003. Location, allocation, translocation: determinants of growth rate in corals. SICB, Toronto, Canada

Sebens, K.P. 2003. Environmental factors limiting tissue and skeletal growth in reef corals. Benthic Ecology Meetings, Groton, CT,

Goodbody, G. and K. P. Sebens 2003. Sea urchin demography, Benthic Ecology Mtg., Groton, CT

Sebens, K. P. 2004. ASLO, Honolulu HI. Environmental controls on tissue and skeletal growth in reef corals.

Sebens, K.P. and F. Lipschultz 2004. Int. Coral Reef Symposium, Okinawa. Water flow and its effects on coral nutrition across a broad range of reef habitats in Bermuda

Lipschultz, F. and K. P. Sebens. 2004 Int. Coral Reef Symposium, Okinawa. Kinetics of nutrient uptake in corals: bridging the gap between biology and engineering.

Carrington, E., B. Helmuth and K. P. Sebens. 2004. Int. Coral Reef Symposium, Okinawa. Coral energetics and temperature stress.

Sebens, K. P. 2005, 2006 WSN

Sebens, K.P. 2005, 2006 ASLO

### **INVITED SEMINARS (1999 - present)**

Marine Bioinvasions Conference, M.I.T., Cambridge, MA 1999

Centre Scientifique de Monaco, Musee Oceanographique, Principaute de Monaco, 1999

Centre d'Océanographie de Marseille, Station Marine d'Endoume, Marseille, France, 1999

University of S. Carolina, Columbia SC 2000

University of Rhode Island, Kingston, RI 2001

Roger Williams University, R. I. 2001

University of Rhode Island Graduate School of Oceanography, Narragansett, RI 2001

University of Massachusetts, Dartmouth, 2002

Salve Regina University, Newport RI, 2002

University of Massachusetts, Boston, 2003, 2004

Northeastern University, Marine Science Ctr, Nahant, MA 2003

University of Washington, Seattle 2004. UW Friday Harbor Labs 2004

University of Washington, School of Aquatic and Fisheries Science 2006

University of California, Los Angeles, Biology 2006

**SERVICE: UNIVERSITY (1999 - present)** (BEES – Behavior, Ecology, Evolution, Systematics Graduate Program, ZOOL – Zoology, BIOL – Biology, MEES – Marine Estuarine Environmental Sciences Graduate Program)

### **Department Committees (Zoology/Biology):**

Promotion and/or Review Committee for 12 Zool/Biol faculty UMCP (1992 - 2004)

Theoretical Ecologist Search Committee UMCP (2000 - 2001)

Facilities and Equipment Committee UMCP (2001 - 2002)

Graduate Admissions Committee UMCP (2002 - 2003)

Faculty Review Committee, UW (Biol) (2007-present)

### **University (UMCP/UMS) Committees:**

BEES Committee Member (1993 - 2004)

MEES Ecology Area of Specialization Committee (1993 - 2004)

MEES Oceanography Area of Specialization Committee (1993 - 2004)

Diving Control Board, member, UMCP. (1998 - 2004)

Marine Biology/Beh.Ecol.Evol. SAC (curriculum committee) Chairperson (1999 - 2001)

MEES Program Advisory Committee, UMS (2001 - 2002), Chairperson

Appointment, Promotion, and Tenure Committee, UMCP (2001-2003) Chairperson

Dean, College of Science and Mathematics (various committee participation) UMass Boston (2003-2005)

Director, Friday Harbor Labs, UW, (meets with: faculty committee, advisory committee, Development Advisory Bd). (2005-present)

**Graduate Student Dissertation/Thesis Advisory Committees (since 1999):**

(ZOOL – Zoology, BIOL – Biology, MEES – Marine Estuarine Env. Sciences Program (UM))

Gary Smith (1993 - 2000) Ph.D., MEES  
Elka Thomsen - Porter (1992 - 1999) Ph.D., MEES  
Michael Dowgiallo (1993 - 2002) Ph.D., MEES  
Mitchell Tart (1995 - 2001), Ph.D., ZOOL  
Wm. Walton (1994 - 2002), Ph.D. MEES  
Marcia Shofner (1993 - 2001), M. S. ZOOL  
Jocelyn Kasow (1995 - 2000), Ph.D. MEES  
Karen Nelson Baker (1995 - 2001), Ph.D. ZOOL  
Ruth Kelty (1997 - 2000), Ph.D. MEES  
Brad Cardinale (1997 - 2001) Ph.D. ZOOL  
Sean Grace (1996 - 2004), Ph.D. Univ. of Rhode Island  
Pamela Huggins (1997 - 2001), Ph.D. SUNY, Stony Brook, NY  
Kenneth Anthony (1999), Ph.D. Univ. of Queensland, AU, external examiner  
Allegra Small (1999 - 2001), M. S. Geology Department, UMCP  
Aura M. Fajardo (2002-2004), Ph.D. Univ. of Rhode Island  
Brad Agius (2002-2003), M.S., Northeastern University  
Elizabeth Wheat (2006-present), Univ. of Washington  
Katherine Fagan (2006-present), Univ. of Washington

**HONORS UNDERGRADUATE ADVISEES (since 1999) (UMCP, theses):**

Melissa Smith (1995 - 1999), Zoology  
Marykate Golden (1998 - 2000), Biology  
Nathan Gernaldi (1999 - 2000), Biology  
Keri O'Neill (2000 - 2002), Biology