April 30, 2007

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

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.

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.

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

∞ **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

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).
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
**Nomination for Membership**
**National Science Board**

<table>
<thead>
<tr>
<th><strong>Nominee:</strong></th>
<th><strong>Nominator:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Michael K. Orbach</td>
<td>Anthony Michaels</td>
</tr>
<tr>
<td>Professor in the Practice of Marine Affairs and Policy</td>
<td>President, National Association of Marine Laboratories (NAML)</td>
</tr>
<tr>
<td>Immediate Past Director, Duke University Marine Laboratory</td>
<td></td>
</tr>
<tr>
<td>Director, Coastal Environmental Management Program</td>
<td></td>
</tr>
</tbody>
</table>

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

November 19, 1947  
Los Angeles, California, USA

**Biographical Sketch:** (see attached)
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


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

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

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-

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

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)

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

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, 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


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


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


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


Testimony


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


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


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


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 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:

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

POSITIONS AND EMPLOYMENT:

<table>
<thead>
<tr>
<th>Dates</th>
<th>Organization</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/04- present</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>CEO and President</td>
</tr>
<tr>
<td>4/04 – present</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>Acting Managing Director</td>
</tr>
<tr>
<td>4/02-4/04</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>Vice President &amp; Director of Research</td>
</tr>
<tr>
<td>3/94-4/02</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>Division Director</td>
</tr>
<tr>
<td>7/91-9/92</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>Acting Division Director</td>
</tr>
<tr>
<td>2/28-3/94</td>
<td>Harbor Branch Oceanographic Institution</td>
<td>Group Leader, Sample Acquisition</td>
</tr>
<tr>
<td>12/84-02/88</td>
<td>SeaPharm, Inc.</td>
<td>Consultant and Group Leader</td>
</tr>
<tr>
<td>10/79-12/84</td>
<td>University of Maryland, CEES/HPEL</td>
<td>Res. Assoc., Assistant Res. Scientist</td>
</tr>
<tr>
<td>6/78-9/79</td>
<td>University of Miami, RSMAS</td>
<td>Research Associate</td>
</tr>
<tr>
<td>6/78-6/78</td>
<td>University of Miami, RSMAS</td>
<td>Postdoctoral Fellow</td>
</tr>
<tr>
<td>6/74-1/75</td>
<td>Sea Grant Advisory Services, Univ. Miami, FL</td>
<td>Assistant to the Director</td>
</tr>
</tbody>
</table>
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)
CURRICULUM VITAE              Kenneth Peter Sebens              April 2007

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)
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
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)
  Board of Directors, Organization for Tropical Studies (1981 - 1985), Board of Editors,
  Panel Member, National Science Found., Biological Research Resources (1986)
  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)
  Editor, Marine Flora and Fauna of the Northeastern United States, N.O.A.A. Tech.
  National Science Foundation Review Panel, Biological Oceanography (October 1989,
  July 1993, 1999)
  National Science Foundation Review Panel, LTER (December 1997)
  Visiting Committee, external review, Smithsonian Envir. Research Center (1997)
  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
National Oceanic and Atmospheric Administration (N.O.A.A.) National Undersea Research Program
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. 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. 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 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-P.I.s)
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.)
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. Helmhuth) $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.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
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)
$23,000. February - August 1999 (award not accepted, time conflict with other awards)

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

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.
Ph.D. DISSERTATION


COURSES TAUGHT

Harvard University (1977 - 1984):
Selected Topics in Population and Community Ecology, Spring 1980, with R. Cook and T. Givnish (Biology 251, G).
Introductory Biology (for non-majors, U), Fall 1973, with S. Waltz, Dept. of Zoology, Univ. of Washington).
University of Puerto Rico, Rio Piedras, P.R. (U, G).

Northeastern University 1983 - 1991:
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.
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).

University of Maryland (1992 - 2004) (G, graduate level, U, undergraduate):
Benthic Ecology (MEES 698K) Fall 1993. (G), with K. Tenore, R. Newell (1/4 of 3 cr course).
Honors research (ZOOL. 599H), 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:
Benthic Ecology Meetings, Harvard University (March 1982) with R. Turner
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):
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
Three presentations, with M. Mills, K. Heidelberg, T. Shyka presenters.
Sebens, K.P. 2003. Location, allocation, translocation: determinants of growth rate in corals. SICB, Toronto, Canada
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, Principauté de Monaco, 1999
Centre d’Oceanographie 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

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, UMC. (1998 - 2004)
MEES Program Advisory Committee, UMS (2001 - 2002), Chairperson
Appointment, Promotion, and Tenure Committee, UMC (2001-2003) Chairperson
Dean, College of Science and Mathematics (various committee participation) UMass Boston (2003-2005)
Graduate Student Dissertation/Thesis Advisory Committees (since 1999):
(ZOOL – Zoology, BIOL – Biology, MEES – Marine Estuarine Env. Sciences Program (UM))

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
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 Geraldi (1999 2000), Biology
Keri O’Neill (2000 - 2002), Biology