

BIOGRAPHICAL SKETCH

PATRICIA (TRISH) MACE

Oregon Institute of Marine Biology
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EDUCATION

University of California at Berkeley, CA. Energy and Resources Group PhD program, focus on marine resources management and conservation. (1991 advanced to candidacy, withdrew 1992)
University of Washington, Jackson School of International Studies, Seattle WA. M.A. International Studies/Environmental Studies (Concurrent Degrees 1986)
Trinity University, San Antonio TX. B.A. Biology. (1981)

GRANTS/FELLOWSHIPS

2010-2011. Oregon Community Foundation Gray Family Fund, "Learning Leading to Action: Connecting Coos and Curry Teachers and Students with the Ocean", PI
2009-2011. NOAA- BWET Bay-Watershed Education and Training Program, "Oregon Coastal Education Initiative - Advancing Our Understanding Through Ecosystem-Based Learning", Senior Personnel
2007-2011 National Science Foundation Graduate Teaching Fellows in K-12 Education, GK-12, Project Coordinator
2003-2007 National Science Foundation Graduate Teaching Fellows in K-12 Education, GK-12, Project Coordinator
2003-2004. Meyer Memorial Trust, "Implementing a Summer Teacher Training Institute", PI
2003 Oregon Sea Grant - Marine Curriculum and Program Development, Project Coordinator
1998-1999. Oregon Sea Grant, Program Development Funds, "Aligning biotic and oceanographic scales with Oregon coastal marine management goals", Co-PI
1992-1994. The United States Man and the Biosphere Program, "Optimal Design of Marine Reserves: Ecology and Economics", Co-PI
1991-1992. The Pew Charitable Trust Integrated Approaches to Training in Conservation and Sustainable Development.
1991-1992. Switzer Foundation Environmental Fellowship

MEMBERSHIPS/APPOINTMENTS/PROFESSIONAL ORGANIZATIONS

South Slough National Estuarine Research Reserve Education Advisory Group
Steering Committee, 2009-present

Coos Bay Schools Community Foundation, board member, 2009-present
(Public Relations Committee Chair 2009-present)
National Marine Educators Association, 2000-present
Northwest Aquatic and Marine Educators, 2000-present
Oregon Coastal Environments Awareness Network, OCEAN, 1997-present
(Board member 1997-2001, 2006-present; Treasurer 2000; CELN Project
Director 2001-2006)
Cape Arago Rocky Shores Ad Hoc Working Group, Charleston, OR, participant 1998
Governor's Community Ad Hoc Committee on Coos Head, Charleston, OR, participant
1997- 1998
American Society of Zoologists, 1990-1992
Ad Hoc Committee on Declining Biodiversity
Committee on Science as A Way of Knowing—Biodiversity
Santa Monica Bay Restoration Project, Los Angeles, CA, Technical Advisory Board,
1989-1990
Woods Hole Oceanographic Institution, Marine Biological Diversity Working Group,
1986

EDUCATION PROGRAM DEVELOPMENT/CURRICULUM DEVELOPMENT/ TEACHING

University of Oregon Institute of Marine Biology, Charleston, OR, (2004-present):

Program Coordinator, “Learning About Where We Live” project to connect OIMB marine biology graduate students with local schools to establish school-wide marine education in 12 elementary schools, improve graduate students’ effectiveness in communicating science, provide STEM (science, technology, engineering and math) content and delivery professional development to teachers, and develop a K-6 marine science curriculum.

Project Coordinator, “Learning Leading to Action: Connecting Coos and Curry Teachers and Students with the Ocean”. Emphasis on (1) fostering and supporting student-led design and implementation of stewardship projects near their schools and (2) integrating art with science for public education. Funded by Oregon Community Foundation.

Senior Personnel, “Oregon Coastal Education Initiative” to develop coastal education modules incorporating field components and highlighting links between watersheds, estuaries and the ocean. Partnership with OIMB, Sough Slough National Estuarine Research Reserve, Oregon Coast Aquarium, Oregon Sea Grant Hatfield Marine Science Center. Funded by National Oceanic and Atmospheric Administration.

Professional Development Workshops for Teachers and Volunteers:
Coastal Habitats and the Organisms that Live There
Wetlands – Learn About and Explore our Wetland Habitats
A Day on the Bay – Top to Bottom and All Around
Technology in the Field – High Tech Ways to Explore the Rocky Shore
Hot Topics: Wave Energy, Dead Zones, Marine Reserves, Climate Change and Ocean Acidification, Sea Level Rise, Fisheries Management and Certification

Research Experience – Learn About On-Going Local Research
Using Our Coastal Habitats to Teach Basic Science Concepts
Integrating Art and Science for Coastal Learning
Field Inquiry for Elementary Students – Tidepools and Wetlands
Hands on Inquiry for the Classroom
Coastal Curricula for State Standards
From Invasives to Natives
MARE (Marine Activities, Resources and Education) Curriculum and Habitat Days
Ocean Week Planning

Coos Bay School District, Coos Bay, OR (2001-present)

Substitute Teacher, Grades K-12.

Alliance for Tompotika Conservation, Sulawesi, Indonesia (2010)

Curriculum Consultant, developed a marine debris curriculum for primary and secondary students on the island of Sulawesi.

University of Oregon, Eugene and Charleston, OR (1992-2006)

Courtesy Instructor, Dept. of Geography.

Oregon Coastal Environments Awareness Network (OCEAN), Coos Bay, OR (2001-06)

Coastal Environments Learning Network Project Director. Overall coordination of establishment of the Coastal Environments Learning Network (CELN), a linked network of sites along the Southern Oregon Coast owned and operated by a variety of State and Federal land-use agencies.

Resource Cities Program, International City/County Management Association – Building Institutions of Good Governance (ICMA-BIGG) and the Agency for International Development (USAID), North Sulawesi Indonesia, (2004-2005)

Consultant, Coastal Resources Management and Marine Education. Provided input and training on coastal zone management and marine protected areas. Provided training on coastal education targeting schools and villages, and tailored curriculum materials for local coastal habitats.

University of Washington, Seattle, WA (1985)

Teaching Assistant. Courses: Introduction to Environmental Studies; International Studies--Cultural Interactions.

Sea Education Association, Woods Hole, MA (1984)

Visiting Scientist/Instructor, RV Westward. Coordinated and supervised undergraduate research projects and lectured in marine science on board a teaching/research vessel.

Marine Science Center, Poulsbo, WA (1984)

Volunteer Instructor. Taught marine science to 4th through 12th grade students.

RESOURCE POLICY AND ENVIRONMENTAL ANALYSIS

Natural Resources Defense Council, Los Angeles, CA (1989-1990), Staff Scientist.
Energy Resources International, Sausalito, CA (1987-1989), Resource Analyst.
EIP Associates, San Francisco, CA (1987-1988), Resource Analyst.
World Resources Institute, Washington, DC (1986), Resource Consultant Intern.

SCIENTIFIC RESEARCH

Univ. of Washington Marine Laboratories, Friday Harbor, WA (1983-1984), Research Assistant.
Smithsonian Tropical Research Institute, Panama (1982), Research Assistant.
Energy Resources Co., Inc., Cambridge, MA (1981-1982), Aquatic Toxicologist.

PRESENTATIONS/PUBLICATIONS/WHITE PAPERS

Mace, Trish. 2010. Teaching Science Content and Process through Classroom Experiments and Field Exploration. Presentation at the Northwest Aquatic and Marine Educators Annual Conference, July 7-10, 2010. Florence, OR.

Mace, Trish. 2009. Success Stories of Ocean Literacy and K-12 Education Presentation and Panel. Ocean Literacy Summit. September 13, 2009. Newport, OR.

Mace, Trish. 2009. Sandy Beach Field Explorations and Classroom Experiments. Presentation at the National Marine Educators Association Annual Conference, June 29-July 3, 2009. Asilomar, California.

Mace, Trish. 2008. Elementary Marine Science to Increase Ocean Literacy: Curriculum. Presentation at the National Marine Educators Association Annual Conference, July 21-21, 2008. Savannah, Georgia.

Mace, Trish. 2007. Linking Graduate Students and Elementary Students for Hands-on Marine Science Learning. Northwest Aquatic and Marine Educators Annual Conference, July 15th-18th, 2007. Astoria, OR.

Norse, Elliott A. (ed.). 1993. Global Marine Biological Diversity. Center for Marine Conservation, World Conservation Union, World Wildlife Fund, UNEP, World Bank. Washington, DC: Island Press. Contributing author.

Mace, Patricia M. & Gustav Paulay. 1992. Biological Diversity and Its Decline: Teaching Aids. American Society of Zoologists, Science as a Way of Knowing Publication.

Edgerton, Lynne T. 1991. The Rising Tide, Global Warming and World Sea Levels. Washington, D.C.: Island Press. Contributing editor, Chapter 3.

Adler, Robert & Trish Mace. 1990. "...And Why Do We Waste So Much?" Los Angeles Times, April 29, 1990, M1 and M8.

- Natural Resources Defense Council. 1990. No Safe Harbor: Tanker Safety in America's Ports. Contributing author.
- ERI. 1989. Future Directions for Leone Village, American Samoa, An Analysis of Two Choices. Two Volumes. Prepared for the Environmental Quality Commission, Territory of American Samoa. Contributing author.
- Mace, Patricia. 1986. Country Briefing Papers on national land-use policies and environmental priorities for: Indonesia, Philippines, Zaire, Cameroon, Madagascar, Bolivia, Colombia, Peru and Panama. Internal documents of the World Resources Institute, Washington, DC.
- Mace, Patricia. 1985. "Recent Human Colonization in the Brazilian Amazon," M.A. Thesis Part I, University of Washington, Seattle, WA.
- Mace, Patricia. 1985. "Socio-cultural and Economic Considerations for Agroforestry Projects," M.A. Thesis Part II, University of Washington, Seattle, WA.