

Karen Haberman, Ph.D.
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EDUCATION

- 1991 – 1998 **Ph.D., 1998, University of California, Santa Barbara.** Division of Ecology, Evolution and Marine Biology, Santa Barbara, CA 93106
- Dissertation: "Feeding ecology of the Antarctic krill, *Euphausia superba*: The role of the prymnesiophyte *Phaeocystis* sp. in the krill's diet." (Advisors: Robin Ross and Langdon Quetin)
- 1984 – 1986 **Cornell University**, Ithaca, NY 14853. Section of Neurobiology and Behavior
- Graduate studies in integrative biology
- 1978 – 1983 **M.S. and B.S., 1982.** Biological Sciences. **Stanford University**, Stanford, CA 94305, and **Hopkins Marine Station**, Pacific Grove, CA 93950.
- Emphasis in invertebrate zoology, marine ecology, neurobiology and behavior.

EMPLOYMENT IN EDUCATION

- 2016 – 2018 **Professor**, Department of Biology, **Western Oregon University**, Monmouth, OR, 97361
- Current courses: Principles of Biology, General Ecology, Marine Ecology, Invertebrate Zoology, Biology of Insects, Marine Vertebrates, Artistic Pathways to Scientific Understanding
 - Current research/scholarship:
 - Artistic pathways to scientific understanding
 - Spatial and temporal variation of the macroinvertebrate community along the Little Luckiamute River
 - Macroinvertebrate communities as indicators of tidal marsh recovery in the Salmon River estuary, Oregon
- 2003 – 2016 **Associate Professor**, Department of Biology, **Western Oregon University**, Monmouth, OR, 97361
- 1998 – 2003 **Assistant Professor**, Department of Biology, **Western Oregon University**, Monmouth, OR, 97361
- 1996 **Teaching assistant**, Department of Biology, **University of California, Santa Barbara**, CA, 93106
- Courses: Introductory Biology lab
- 1990 – 1991 **Instructor**, Biology, **California Lutheran University**, Thousand Oaks, CA, 91360
- Courses: Principles of Biology, Invertebrate Zoology, and Marine Biology.
- 1989 – 1990 **Assistant Professor**, Biology, **Saddleback College**, Mission Viejo, CA, 92692
- Courses: Introductory Biology, General Zoology, and Marine Biology

1987 – 1989;1984 **Instructor, Catalina Island Marine Institute**, Avalon, CA, 90704

- Led students, sixth grade through college, in three-day to three-week lab and field-based programs focused on marine biology, island ecology, snorkeling and subtidal research.
- Served as assistant SCUBA instructor and divemaster.

Summer 1988 **Instructor, Active Learning, Inc.**, Corte Madera, CA, 94925

- Taught study and organizational skills, time management, and public speaking to college students. Advised students.

1986 **Teaching assistant**, Section of Neurobiology and Behavior, **Cornell University**, Ithaca, NY, 14850

- Courses: Introductory Neurobiology and Behavior

1982 **Teaching assistant, Stanford University**, Stanford, CA, 94305

- Courses: Basic SCUBA

EMPLOYMENT IN RESEARCH (IN ADDITION TO CURRENT FACULTY POSITION)

Summer 2017 **Visiting Researcher/Consultant**. Behavior and ecology of Leach's storm petrels. University of California, Davis (with Dr. Gabrielle Nevitt)

- Field studies of Leach's storm petrels on Bon Portage Island.

2002 – 2003 **Naturalist**, Coral Reef Ecology, **Oceanic Society**, Turneffe Atoll, Belize

- Led three 1-week programs for coral reef monitoring for snorkeling and SCUBA volunteers.

1991 – 1998 **Graduate research assistant**, Marine Science Institute, **University of California, Santa Barbara**, CA, 93106

- Conducted krill grazing experiments for dissertation; collected samples and analyzed data for National Science Foundation-sponsored Long Term Ecological Research program, Palmer Station, Antarctica.

Summer 1996 **Field Assistant, Bowdoin Scientific Station**, Bay of Fundy, Canada

- Assisted in field studies of olfaction in Leech's storm petrels.

Summer 1991 **Lab preparator**, Shoals Marine Laboratory, Portsmouth, NH, 03801

- Maintained marine aquaria. Organized laboratory supplies and set up labs.
- Collected animals in intertidal and using SCUBA.
- Deck-handed on research vessel: handled lines, operated winch, deployed nets and other oceanographic instruments. Operated CTD software.

1981 **Research assistant**, Ward Watt, advisor, Dept. of Biology, Stanford University, **Stanford**, CA, 94305

1979 – 1980 **Lab technician**, Center for Materials Research, Dept. of Biology, Stanford University, **Stanford**, CA, 94305

COURSES TAUGHT: CURRENT

BI 101: General Biology lab
BI 212/212L: Principles of Biology, lecture and lab (every year, co-taught with Bryan Dutton; previously with Mike LeMaster)
BI 357W/357L: General Ecology, lecture and lab (writing intensive; every year)
BI 361/361L: Marine Ecology, lecture and lab (formerly Marine Biology; every year)
BI 451/451L: Invertebrate Zoology lecture and lab (even years only)
BI 453/553: Marine Vertebrates lecture (even years only)
BI 474/474L: Biology of Insects (formerly Entomology; odd years only)
H375: Honors Colloquium: Artistic Pathways to Scientific Understanding

COURSES TAUGHT: PREVIOUS

BI 101: General Biology lecture
BI 102/102L: General Biology, lecture and lab
BI 213/213L: Principles of Biology, lecture and lab (co-taught with Lowell Spring)
BI 258/458/558: Tropical Marine Ecology, Belize (summer course in Belize, 2001 and 2002)
BI XL: Biology Excel: peer-led group study program
BI 360/360L: Animal Behavior, lecture and lab (formerly BI 312/312L)
GS 203H/GS 203L: Search for Meaning and Order (Honors Biology), lecture and lab
GS 311: Biology for Elementary Schools, lecture and lab

PEER-REVIEWED PUBLICATIONS

Flitcroft R, Bottom D, **Haberman K**, Bierly K, Jones K, Simenstad S, Gray A, Ellingson K, Baumgartner E, Cornwell T, Campbell L. 2016. Expect the unexpected: place-based protections can lead to unforeseen benefits. *Aquatic Conservation: Marine and Freshwater Ecosystems* 26(S1): 39-59

Haberman KL. 2015. On the Significance of Small Dead Things. *Journal of Natural History Education and Experience* 9: 8-12.

Haberman KL. 2014. Sex Determination and Mating Strategies of the Bluehead Wrasse, *Thalassoma bifasciatum*: A Role-play Simulation. In: McMahon K, editor. *Tested Studies for Laboratory Teaching*, Volume 35. Proceedings of the 35th Conference of the Association for Biology Laboratory Education; 2013 June 24 – 28; Calgary, Canada: 90-102.

Haberman KL, Quetin LB, Ross RM. 2003. Diet of the Antarctic krill (*Euphausia superba* Dana I. Comparisons of grazing on *Phaeocystis antarctica* (Karsten) and *Thalassiosira antarctica* (Comber). *Journal of Experimental Marine Biology and Ecology*: 79-95.

Haberman KL, Ross RM, Quetin LB. 2003. Diet of the Antarctic krill (*Euphausia superba* Dana II. Selective grazing in mixed phytoplankton assemblages. *Journal of Experimental Marine Biology and Ecology*: 97-113.

Nevitt GA, **Haberman KL**. 2003. Behavioral attraction of Leach's storm-petrels (*Oceanodroma leucorhoa*) to dimethyl sulfide. *Journal of Experimental Biology* 206: 1497-1501.

Haberman KL, Vernet M, Ross RM, Quetin LB, Nevitt GA, Kozlowski W. 2002. Grazing by the Antarctic krill (*Euphausia superba* Dana) on the prymnesiophyte *Phaeocystis antarctica*: An immunochemical approach. *Marine Ecology Progress Series* 141: 139-149.

Ross RM, Quetin LB, **Haberman KL**. 1998. Interannual and seasonal variability in short term grazing impact of *Euphausia superba* in nearshore and offshore waters west of the Antarctic Peninsula. In: Proceedings of the International Symposium on Carbon Fluxes and Dynamic Processes in the Southern Ocean: Present and Past. Brest, France, August 28-31, 1995. Journal of Marine Systems 17: 261-273 (paper and invited talk).

Quetin LB, Ross RM, Frazer TK, **Haberman KL**. 1996. Factors affecting the distribution and abundance of zooplankton, with an emphasis on the Antarctic krill, *Euphausia superba*. Foundations for Ecological Research West of the Antarctic Peninsula. American Geophysical Union, 357-371.

Haberman KL, Ross RM, Quetin LB. 1993. Palmer LTER: Grazing by the Antarctic krill *Euphausia superba* on *Nitzschia* sp. and *Phaeocystis* sp. monocultures. Antarctic Journal of the U.S. 28 (5): 217-219.

Quetin LB, Ross RM, Prézelin BB, **Haberman KL**, et. al. 1993. Palmer LTER: Biomass and community composition of euphausiids within the peninsula grid, November 1991 cruise. Antarctic Journal of the U.S. 27(5): 244-245.

CONFERENCE PRESENTATIONS (*indicates student co-presenters; **indicates role as session convener as well as speaker)

****Haberman K**. 2017. Friday Night at the Sea Table. Coastal and Estuarine Research Federation, 24th Biennial Conference; 2017 November 5 – 9; Providence, RI. (Peer-reviewed abstract/talk)

****Kolesar S, Haberman K**. 2017. Artistic pathways to scientific understanding: collaborative mosaic II. Coastal and Estuarine Research Federation, 24th Biennial Conference; 2017 November 5 – 9; Providence, RI. (Poster)

****Haberman K, Kolesar S, Germano J, Gray A**. 2015. Artistic pathways to scientific understanding: opening conversation. Coastal and Estuarine Research Federation, 23rd Biennial Conference; 2015 November 8 – 12; Portland, OR. (Peer-reviewed abstract/talk)

****Kolesar S, Haberman K, Germano J, Gray A**. 2015. Artistic pathways to scientific understanding: collaborative mosaic. Coastal and Estuarine Research Federation, 23rd Biennial Conference; 2015 November 8 – 12; Portland, OR. (Poster)

Baumgartner E, **Haberman K**. 2015. Strengths and weaknesses of participatory science-aligned monitoring and education in the Salmon River estuary. Northwest Partners in Amphibian & Reptile Conservation, Annual Meeting/Workshop; 2015 February 25; Portland OR. (Invited abstract/talk)

Haberman K, Gray A. 2014. Macroinvertebrate communities as indicators of ecosystem recovery in the Salmon River estuary: a journey in space and time. Cascade Head Science Symposium; 2014 October 24-25; Lincoln City, OR. (Invited abstract/talk)

Haberman K, Baumgartner E. 2013. High marsh and mudholes: Faculty and peer mentoring of undergraduate researchers in the Salmon River estuary. Coastal and Estuarine Research Federation, 22nd Biennial Conference; 2013 November 2 – 7; San Diego, CA. (Peer-reviewed abstract/talk)

Haberman K, Gray A, Kuletz I*. 2013. Using macroinvertebrate assemblages to detect recovery status in estuarine wetlands of the Salmon River estuary, Oregon. Coastal and Estuarine Research Federation, 22nd Biennial Conference; 2013 November 2 – 7; San Diego, CA. (Peer-reviewed abstract/talk.)

Haberman K, 2013. Sex Determination and Mating Strategies of the Bluehead Wrasse, *Thalassoma bifasciatum*. Association of Biology Laboratory Education, 35th Annual Meeting; 2013 June 24 – 28; Calgary, Canada. (Peer-reviewed materials; two three-hour workshops.)

Helstrom G*, Herrold S*, Claussen K*, Baumgartner E, **Haberman K**. 2012. Invertebrate Research and Undergraduate Leadership in the Salmon River Estuary. Heceta Head Coastal Conference; 2012 October 27; Florence, OR. (Poster presentation)

Baumgartner E, Helstrom G*. **Haberman, K**. 2012. Measurement and benthic cores. Lincoln County Math-Science Partnership Ocean Literacy Summit; 2012 August; Newport, OR. (Talk)

Haberman K, Lewis J*. 2011. Response of invertebrate communities to dike removal in the Salmon River estuary: A model for undergraduate involvement in estuarine research. Ecological Society of America: 96th Annual Meeting; 2011 August 7-12; Austin TX. (Peer-reviewed abstract/talk.)

Haberman KL. 2009. Use of macroinvertebrates to assess low-level anthropogenic impacts on the Little Luckiamute River, western Oregon, U.S.A. 94th Annual Meeting, Ecological Society of America; 2009 August 2-7; Albuquerque, NM. (Peer-reviewed abstract/poster presentation)

Haberman KL, Hatteberg KL*, McBride P*. 2007. Immunochemistry as an ecological tool: diet analysis of formalin-preserved Antarctic krill (*Euphausia superba*) from the Western Antarctic Peninsula, Fourth International Zooplankton Production Symposium; 2007 May 26-June 3; Hiroshima, Japan. (Peer-reviewed abstract/poster presentation)

Haberman KL. 2001. Exploring Evolution: A STELLA Model for Biology 101 labs. OCEPT Showcase; 2001 June 19 – 21; Willamette University. (Workshop)

Turner B, Dutton B, **Haberman K**, Ziglinski M*. 2000. Structured Study Halls and BioExcel. OCEPT Showcase; 2000 June 14; Pacific University. (Talk)

Haberman KL, Ross RM, and Quetin LB. 1999. Grazing by the Antarctic krill, *Euphausia superba*, with a focus on *Phaeocystis antarctica* as a food resource. VIII SCAR International Biology Symposium; 2001 August 27-September 1; Amsterdam, The Netherlands. (Peer-reviewed abstract/talk)

Haberman KL, Vernet M, Ross RM, Quetin LB, Nevitt GA, Kozlowski W. 1999. An immunochemical assay for *Phaeocystis antarctica* in the stomachs of field-collected Antarctic krill." Second International Conference on Krill, 1999 August 22-26; Santa Cruz, CA. (Peer-reviewed abstract/talk.)

Haberman KL. 1996. Grazing by the Antarctic krill, *Euphausia superba*: Effects of Size, Structure and Physiological State of Phytoplankton on Ingestion Rates. ASLO/AGU Ocean Sciences Meeting; 1996 February 12 – 16; San Diego, CA. (Peer-reviewed abstract/talk.)

Haberman KL, Ross RM, and Quetin LB. 1995. Krill as consumers: The importance of phytoplankton community composition to krill diet. American Society of Limnology and Oceanography Meeting; 1995 June 11 – 15; Reno, NV. (Peer-reviewed abstract/talk.)

LAB MANUALS

Haberman, KL. 2000 (revised 2002). Biology 101 Laboratory Manual, Western Oregon University.

Haberman KL. 1984. Contents of a Jar Revealed: The Official Plankton Lab Survival Guide. 24 pages. Catalina Island Marine Institute.

OTHER PUBLICATIONS

- Haberman, KL.** 2009. Sabbatical in the Swamps. WOU Magazine, Fall 2009. Article about le Marais Poitevin region of western France. Includes photos.
- Haberman, KL,** 2002. They say your heart never leaves... WOU Magazine, Fall 2002. Article about the Belize course. Includes photos.
- Haberman, KL,** 2001. Kindness Beyond Belief. WOU Magazine, Fall 2001. Article about my experiences in Newfoundland, Sept 11-15, 2001. Includes photos.

OTHER PRESENTATIONS

- Haberman K,** Gray A, Baumgartner E. 2015. Macroinvertebrate communities as indicators of ecosystem recovery in the Salmon River estuary: a journey in space and time. Monmouth-Independence Rotary Club; 2015 February 26; Independence, OR. (Community presentation.)
- Haberman K,** Baumgartner E. 2012. Response of Marsh Insects and Benthic Invertebrates to Dike Removal in the Salmon River Estuary: Research Approach and Update. Estuarine Ecology Workshop for K-12 Educators; 2012 July 2 – 3; Lincoln City, OR. (Talk)
- Haberman K.** 2005. Krill, Whales and the Cold Food Chain. The Whale in Science and Culture. Western Oregon University, 2005 January 19.
- Haberman KL.** 2002. Beyond size: Evidence of selective grazing in Antarctic krill. Invited talk. Oregon Institute for Marine Biology, Summer Seminar Series, Charleston, OR, July 17, 2002.
- Haberman KL.** 2002. Conchs: Life history, human impact and research. Blackbird-Oceanic Field Station, Turneffe Atoll, Belize, 2002 August 7.
- Haberman KL,** Ross RM, and Quetin LB. 1999. Selective grazing by the Antarctic krill, *Euphausia superba*, in mixed phytoplankton assemblages." Palmer LTER site review; 1999 September 1 - 3; Santa Barbara, CA. (Poster presentation.)

STUDENT PRESENTATIONS, ACADEMIC SHOWCASE AND HONORS (FACULTY ADVISOR)

- Braasch, Joleen. 2016. Destroying Ennui: My Study Abroad Experience. WOU Academic Showcase, May 26, 2016.
- Cabison, Megan. Student Perspective on Study Abroad. WOU Academic Showcase, May 26, 2016.
- Elliot, Abby. Living Like a Peruvian: Adventures Abroad. WOU Academic Showcase, May 26, 2016.
- Thomas, Courtney. 2016. Death and Culture. WOU Academic Showcase, May 26, 2016.
- Traweek K. 2012. Oregon Grey Wolf Reintroduction, Conservation and Management Evaluation. Western Oregon University: Honors Senior Theses/Projects. Paper 83.
- Harrison S. 2011. Benthic macroinvertebrate habitat preference and diversity in the Salmon River Estuary, Oregon. WOU Academic Showcase, May 28, 2011. (Co-advisor with Erin Baumgartner.)

Hendrix S. 2010. Patchy distribution of macroinvertebrates: Implications for assessing stream health. WOU Academic Showcase, May 27, 2010.

Keller D, Lewis J. 2010. Insect diversity in recovering tidal marshes of the Salmon River estuary. WOU Academic Showcase, May 27, 2010

CURATED EXHIBITS

Haberman KL. 2006. Antarctica! Seascapes and Science on the Ice. Hamersly Library, 3rd floor gallery; 2007 September 15 – December 10; Monmouth OR. Developed and curated a display of my Antarctic photos along with descriptions of life and science on the Antarctic Peninsula.

Jamieson E, **Haberman KL.** 2002. Back from Belize. Werner Center Gallery. 2002 November 1-18; Monmouth OR. I co-developed and co-curated this display of artwork from the Belize course by faculty and students. Display included my underwater photos.

PERFORMANCES

Dancer (in ensemble): Kuku (Traditional West African Dance), Darryl Thomas, choreographer, Western Oregon University, Informal Spring Dance Concert; June 1, 2018

Dancer (in ensemble): Macru and Sorsonet (Traditional West African Dances), Darryl Thomas, choreographer, Western Oregon University, Informal Spring Dance Concert; June 3, 2016

Dancer (in ensemble): Macru (Traditional West African Dance), Darryl Thomas, choreographer, Western Oregon University, Spring Dance Concert (May 7-9, 2015)

Flutist: Western Oregon University Orchestra (2012; Ike Nail, conductor), Wind Ensemble (2002 – 2003; Sylvain Frémaux, conductor) and Flute Choir (2000 – 2001: Solveig Holmquist, conductor)

GRANTS

National/regional

Oregon Sea Grant, Feb. 2010- March 2013. Response of Marsh Insects and Benthic Invertebrates to Dike Removal in the Salmon River Estuary: Follow-up, Synthesis and Education, Lead Principal Investigator (\$73,564)

Oceanic Society, room and board (3 weeks); round trip airfare (x2), Turneffe Atoll, Belize. August 2002; January 2003, July 2003 for developing program in coral reef monitoring

National Science Foundation, Travel grant to Scientific Committee on Antarctic Research (SCAR) meeting, 1999 (\$1500)

Oregon Collaborative for Excellence in the Preparation of Teachers (OCEPT) Faculty Fellowship, 1999-2000 (\$7550)

National Science Foundation, LTER Network, Graduate Fellowship (tuition, fees, stipend), (1991-1998) [Grant to Robin Ross and Langdon Quetin, UC Santa Barbara.]

National Institutes of Health, Research Service Award, 1984, for graduate study (tuition, fees, stipend), Cornell University.

WOU

Faculty Development Award, 2015 (\$2000 for travel to CERF meeting, Providence, RI)

Faculty Development Award, 2016 (3-credit course release)

Faculty Development Award, 2015 (\$1141 for travel to CERF meeting, Portland, OR)

Faculty Development Award, 2013 (\$1200 for travel to CERF meeting, San Diego, CA)

Faculty Development Award, 2013 (\$1200 for travel to ABLE meeting, Calgary, Canada)

Faculty Development Award, 2011 (\$1200 for travel to ESA meeting, Austin, TX)
Faculty Development Award, 2010 (\$2250 for studies in the Salmon River estuary)
Faculty Development Award, 2009 (\$900 for travel to ESA meeting, Albuquerque, NW)
Faculty Development Award, 2008 (\$900 for travel to ASLO meeting, Nice, France)
Faculty Development Award, 2007 (\$775 for travel to 4th International Zooplankton Symposium)
Faculty Development Award, 2006 (\$865 for immunochemistry of krill diet project)
Faculty Development Award, 2004 (\$2720 for immunochemistry of krill diet project)
Faculty Development Award, 1999 (\$1000 for aquarium system)
Faculty Development Award, 1999 (\$500 for travel to Second International Symposium on Krill)

HONORS AND AWARDS

Institutional Faculty/Staff “Of the Month” award, December 2012. **National Residence Hall Honorary**. (Local, Regional and National Winner.)
Certificate of Excellence, 2010, **Western Oregon University**, for securing extramural funding and advancing undergraduate research at WOU.
Faculty Appreciation Award, 1991. **Associated Students of California Lutheran University**.

PROFESSIONAL LEADERSHIP/COMMITTEE MEMBERSHIPS

Conferences

Lead Convener, Artistic Pathways to Scientific Understanding, Coastal and Estuarine Research Federation’s 24th Biennial Conference, November 4-9 2017.
Session Co-chair, Artistic Explorations in the Natural, Social, and Behavioral Sciences, WOU Academic Excellence Showcase, June 1, 2017
Session Chair, Study Abroad, Encounters and Perspectives, WOU Academic Excellence Showcase, May 26, 2016
Lead Convener, Artistic Pathways to Scientific Understanding, Coastal and Estuarine Research Federation’s 23rd Biennial Conference, November 8-12. 2015

Study Abroad

Faculty Representative: SEA Semester, Woods Hole, MA, 02543 (2010 – present)
Faculty Representative: School for Field Studies, Beverly, MA, 01915 (2008 – present)

Search Committees

Member, Vertebrate Biologist Search Committee, Biology Department (2017 – 2018)
Member, Dean Search Committee, College of Liberal Arts and Sciences (2016 – 2017)
Chair, Cell Biologist Search Committee (2010 – 2011)
Chair, Science Education Specialist Search Committee (2007 – 2008)
Chair, Developmental Biologist Search Committee (2007 – 2008)

Other

Chair, Biology Department Scholarship Committee (2013 – 2014, 2015 – 17)
Member, Faculty Senate: Fall 2017 – 2018; 2003 - 2005.
Member, Honors Committee (2016 – present)
Member, Ernie and Laverne Cummins Math and Science Scholarship Committee (2015 – 2016)
Member, Biology Department Scholarship Committee (2006 – 08, 2009 – 2014)
Member, Writing Intensive Committee (2012 – 2014)
Member, Institutional Review Board (2011 – 2014)
Member, International Education and Service Committee (2001 – 2008, 2009 – 2011, 2015)
Chair, International Education and Service Committee (2009 – 2010)

Chair, Fulbright Scholarship Committee (Summer 2012)
Member, Fulbright Scholarship Committee (Summer 2010)
Chair, Study Abroad Review: subcommittee of IESC (2007 – 2008)
Head, Biology Department (2006 – 2008)
Member, Division Personnel Review Committee (2006 – 08)
Education Representative: Luckiamute Watershed Council (2005 – 2007)
Chair, Faculty Development Committee (2003 – 2004)
Vice-Chair, Faculty Development Committee (2001 – 2003)
Secretary, Faculty Senate (2004 – 2005)
Faculty Advisor, Natural Science Club (2000-2006)
Member, Honor Code Committee (2000 – 2001)
Member, Technology Resource Committee, Div. of Natural Sciences (2004 – 2009)
Member, Service Committee, Div. of Natural Sciences (1998 – 2008)
Member, Student Media Board (2001 – 2002)
Member, Student Conduct Committee (1999 – 2003)
Member, **Faculty Development Committee**, Saddleback College (1989 – 1990)
Member, **Energy and Environment Committee**, Saddleback College (1989 – 1990)

PROFESSIONAL SOCIETIES

Association for Biology Laboratory Education (ABLE)
Coastal and Estuarine Research Federation (CERF)
Ecological Society of America (ESA)
Natural History Network

OTHER ACTIVITIES, AND CERTIFICATIONS

Fostering Success Liaison (2016 – present)
Safe Zone: Ally 1
Western Adventures in Math and Science: Workshop leader (2004)
California Community College Credential, Biological Sciences (1989)
Divemaster and Assistant SCUBA Instructor, NAUI. (Certified July, 1989, expired)
Volunteer Phone Counselor, Helpline, Santa Barbara and Suicide Prevention, Ithaca, NY (1984 – 1986)
Financial Manager, Theta Chi Cooperative, Stanford University (1982)
Coxswain, Stanford Women's Crew, Stanford University (1978 – 1979)