

PRESENT ADDRESS

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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 - 2005)
Associate Professor of Biology, Northeastern University (1985 - 1986)
Director, Marine Science Center, Northeastern University (1985 - 1991)
Professor of Biology, Northeastern University (1986 - 1992)
Associate Dean of Arts and Sciences, Northeastern Univ. (Acting, 1986 - 1987)
Adjunct Faculty, Northeastern University (1992 - 2005)
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)
Professor, School of Aquatic and Fishery Sciences, UW, Seattle (2010 - present)
Director, UW Friday Harbor Laboratories, Friday Harbor, WA (2005 - 2013)
Dennis Willows Director's Endowed Professor, UW (2011-2013)
Visiting Professor, Università degli studi di Palermo, Dipartimento di Scienze della Terra et
del Mare (2013)

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
Dennis Willows Director's Endowed Professorship, UW (2011-2013)

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 (2005-2015), Chair: Science Subcommittee (2007-2011), member 2005-2015
SeaDoc Society, Science Advisory Committee (2005 - 2014)
National Science Foundation Site Review, LTER (2006, 2008, panel 2012)
NAML (Natl. Association of Marine Laboratories), Board Member (2006 - 2013)
WAML (Western Assoc. of Marine Laboratories), President Elect (2007 -2009), President (2009-2011), Past President (2011-2013), member 2006-2013
Marine Protected Areas Work Group, WA State, Olympia WA, 2008-2010
SICB (Soc. for Integrative and Comparative Biology), President-Elect (2009-2011), President (2011-2013), Past President (2013-2015), Advisory Committee (2015-present)
BOAC (Board on Oceans, Atmosphere and Climate), Assoc. of Public and Land-Grant Universities, member (2011-2014)
San Juan Nature Institute, Board of Directors, 2017- 2018

PUBLICATIONS:

- Sebens, K. P. 1976. A vital stain technique for individually marking soft-bodied intertidal invertebrates; a test on the sea anemone *Anthopleura xanthogrammica* J. Fish Res. Bd. Can. 33: 1407 - 1410.
- Sebens, K. P. 1976. The ecology of sea anemones in Caribbean Panama; utilization of space on a coral reef. In: Coelenterate Ecology and Behavior, G. Mackie, ed., Plenum, Chicago. 67 - 77.
- Sebens, K. P. and K. DeRiemer. 1977. Diel cycles of expansion and contraction behavior in coral reef anthozoans. Marine Biology 43: 247 - 256.
- Sebens, K. P. 1977. Autotrophic and heterotrophic nutrition of coral reef zoanths. Proceedings of the Third International Coral Reef Symposium, Miami, Florida. I. 397 - 404.
- Sebens, K. P. and G. Laakso. 1977. The genus *Tealia* (Anthozoa: Actiniaria) in the San Juan Archipelago and the coast of the Olympic Peninsula, Washington, with descriptions of *Tealia piscivora* sp. nov and *Tealia lofotensis* (Danielssen). Wasmann J. Biology 35: 152 - 168.
- Sebens, K. P. and R. T. Paine. 1978. Biogeography of anthozoans along the west coast of South America: habitat, disturbance and prey availability. In: Proceedings of the Int. Symposium on Marine Biogeography and Ecology in the Southern Hemisphere. Vol. I., N. Zealand Dept. of Scientific and Industrial Res. Inf. Ser. No. 137, 745 pp., 219 - 237.
- Sebens, K. P. 1979. The energetics of asexual reproduction and colony formation in benthic marine invertebrates. Amer. Zool. 19: 683 - 697.
- Sebens, K. P. 1980. The regulation of asexual reproduction and body size in the sea anemone *Anthopleura elegantissima* (Brandt). Biol. Bull. 158: 370 - 382.
- Sebens, K. P. 1981. Recruitment in a sea anemone population: larval substrate becomes adult prey. Science 213: 785 - 787.
- Sebens, K. P. 1981. The allometry of feeding, energetics, and body size in three sea anemone species. Biol. Bull. 161: 152 - 171.
- Sebens, K. P. 1981. Reproductive ecology of the intertidal sea anemones, *Anthopleura xanthogrammica* (Brandt) and *A. elegantissima*. (Brandt): body size, habitat and sexual reproduction. J. Exp. Mar. Biol. Ecol. 54: 225 - 250.
- Sebens, K. P. 1981. Recruitment and habitat selection in the intertidal sea anemones, *Anthopleura elegantissima* (Brandt) and *A. xanthogrammica* (Brandt). J. Exp. Mar. Biol. Ecol. 59: 1 - 22.
- Sebens, K. P. 1982. The limits to indeterminate growth: an optimal size model applied to passive suspension feeders. Ecology 82: 209 - 222 (Mercer Award, ESA 1983).
- Sebens, K. P. 1982. Intertidal distribution of zoanths on the Caribbean coast of Panama: effects of predation and desiccation. Bull. Mar. Sci. 32: 316 - 335.
- Sebens, K. P. 1982. Asexual reproduction in *Anthopleura elegantissima* (Brandt) (Anthozoa; Actiniaria): seasonality and spatial extent of clones. Ecology 63: 434 - 444.
- Sebens, K. P. 1982. Competition for space: growth rate, reproductive output and escape in size. Am. Natur. 120: 189-197
- Sebens, K. P. 1983. The larval and juvenile ecology of the temperate octocoral *Alcyonium siderium* Verrill. I: substrate selection by benthic larvae. J. Exp. Mar. Biol. Ecol. 71: 73 - 89.
- Sebens, K. P. 1983. Settlement and metamorphosis of a temperate soft-coral larva (*Alcyonium siderium* Verrill): induction by crustose algae. Biol. Bull. 165: 286 - 304..
- Sebens, K. P. 1983. The larval and juvenile ecology of the temperate octocoral *Alcyonium siderium* Verrill. II: fecundity, survivorship, and juvenile growth. J. Exp. Mar. Biol. Ecol. 72: 263 - 285
- Sebens, K. P., with P. Rogers, L. R. Beard, K. D. Frederick and O. T. Lind. 1983. Chapter II. Aquatic Ecosystems. In: Natural Resource Inventories and Baseline Studies: Methods for Developing Countries. AAAS and Nat. Park Service Publication, AAAS Office of International Science, 193 pp. (pages by K. Sebens: 50 - 57, 61 - 69, 72075 90 - 100, 114 - 130, 149, 151 - 157).
- Sebens, K.P. 1983. Population dynamics and habitat suitability in the intertidal sea anemones *Anthopleura xanthogrammica* (Brandt) and *A. elegantissima* (Brandt). Ecol. Monogr. 53: 405 - 433.
- Smith, D. S. and K. P. Sebens. 1983. The physiological ecology of growth and reproduction in *Onchidoris aspera* (Gastropoda: Nudibranchia). J. Exp. Mar. Biol. Ecol. 72: 287 - 304.
- Sebens, K. P. 1984. Morphological variability during longitudinal fission of the sea anemone *Anthopleura elegantissima*. Pacific Science 37: 121 - 133.
- Fadlallah, Y. H., R. H. Karlson, and K. P. Sebens. 1984. A comparative study of sexual reproduction in three species of Panamanian zoanths (Coelenterata: Anthozoa). Bull. Mar. Sci. 35: 80 - 89.
- Sebens, K. P. and M. A. R. Koehl. 1984. Predation on zooplankton by the benthic anthozoans *Alcyonium siderium* (Alcyonacea) and *Metridium senile* (Actiniaria) in the New England subtidal. Marine Biology 81: 255 - 274.
- Sebens, K. P. 1984. Growth rate and size structure in populations of colonial and solitary invertebrates. Symp. Series for Underwater Res., The Ecology of Deep and Shallow Reefs, N.O.A.A., 2: 9 - 15.

- Sebens, K. P. 1984. Water flow and coral colony size: interhabitat comparisons of the octocoral *Alcyonium siderium*. Proc. Natl. Acad. Sci. 81: 5473 - 5477.
- Sebens, K. P. 1984. Agonistic behavior in a large solitary sea anemone, *Anthopleura xanthogrammica* (Brandt). Biol. Bull. 166: 457 - 472.
- Sebens, K. P. 1985. Community ecology of vertical rock walls in the Gulf of Maine sublittoral zone: small - scale processes and alternative community states. Chapter 23. In: P. G. Moore and R. Seed, eds. The Ecology of Rocky Coasts. Hodder and Stoughton Educational, Kent. pp. 346 - 371.
- Sebens, K. P. and J. R. Lewis. 1985. Rare events and population structure of the barnacle *Semibalanus cariosus*. J. Exp. Mar. Biol. Ecol. 87: 55 - 65.
- Sebens, K. P. and B. L. Thorne. 1985. The relationships among asexual reproduction, clone diversity and disturbance rate. Proc. of the Symposium on Population Biology and Evolution of Clonal Organisms (1982). Yale University Press, New Haven.
- Sebens, K. P. 1985. The ecology of the Rocky Subtidal Zone. American Scientist 73: 548 - 557.
- Sebens, K. P. 1986. Spatial relationships among encrusting marine organisms in the New England subtidal. Ecol. Monogr. 56: 73 - 96.
- Sebens, K. P. 1987. Applications of unmanned submersibles to benthic marine ecological research. in: Undersea Teleoperators and intelligent Autonomous Undersea Vehicles. Proceedings. N.O.A.A./M.I.T. Seagrant Publication pp. 83 - 100.
- Sebens, K. P. 1987. Chapter 4: Coelenterate Energetics. 1987. In: T. J. Pandian and F. J. Vernberg, eds. Animal Energetics. Academic Press, New York. pp 55 - 120.
- Sebens, K.P. 1987. The ecology of indeterminate growth in animals. Annual Review of Ecology and Systematics, 18: 371-407
- Sebens, K. P. 1988. Competition for space: the effects of disturbance and indeterminate competitive success. Theor. Pop. Biol. 1988. 33: 430 - 441.
- Briscoe, C. S. and K. P. Sebens. 1988. Omnivory in the green sea urchin *Strongylocentrotus droebachiensis* (Müller) predation on subtidal mussels. J. Exp. Mar. Biol. Ecol. 115: 1-24.
- Sebens, K.P., J.D. Witman, R.A. Allmon and E.J. Maney, Jr. 1988. Early community development experiments in rocky subtidal habitats (Gulf of Maine, 30 - 80 m). pp. 45 - 66. In: I. Babb and M. DeLuca, eds. Benthic Productivity and Marine Resources in the Gulf of Maine. N.U.R.P. (N.O.A.A.) Research Report 88 - 3.
- Allmon, R. A. and K. P. Sebens. 1988. Feeding and ecological impact of an introduced nudibranch, *Tritonia plebeia*, New England, USA. Marine Biology 99: 375 - 385.
- Witman, J.D. and K.P. Sebens. 1988. Benthic community structure at a subtidal rock pinnacle in the central Gulf of Maine. pp. 67 - 106. In: I. Babb and M. DeLuca, eds. Benthic Productivity and Marine Resources in the Gulf of Maine. N.U.R.P. (N.O.A.A.) Research Report 88 - 3.
- Sebens, K. P. and J. S. Miles. 1988. Sweeper tentacles in a gorgonian octocoral: their function in competition for space. Biol. Bull. 175: 378-387.
- Witman, J. D. and K. Sebens. 1989. Distribution and ecology of sponges at a subtidal rock ledge in the central Gulf of Maine, U.S.A. in: K. Reutzler, (ed.) Proc. of the Symposium on Sponge Biology, October 1985 Woods Hole, MA. Smithsonian Inst. Press. pp. 391 - 396
- Patterson, M. R. and K. P. Sebens. 1989. Forced convection modulates gas exchange in cnidarians PNAS 86:8833 - 8836.
- Sebens, K. P. 1990. Habitat structure and community dynamics in marine benthic systems. In: E. D. McCoy, S. A. Bell and H. Mushinsky, eds. Habitat Structure: the Physical Arrangement of Objects in Space. Chapman and Hall, London pp 211 - 234
- Sebens, K.P. and A.S. Johnson. 1991. The effects of water movement on prey capture by reef corals. Hydrobiologia 226:91 - 101.
- Sebens, K.P. and A.S. Johnson. 1991. Effects of water movement on prey capture and distribution of reef corals - synopsis. R.B. Williams, P.F.S. Cornelius, R.G. Hughes and E.A. Robson (eds), Coelenterate Biology: Recent Research on Cnidaria and Ctenophora. 1991 Kluwer Academic Publishers. Belgium. Hydrobiologia 216/217: 247 - 248.
- Patterson, M.R., K.P. Sebens, and R.R. Olson. 1991. *In situ* measurements of forced convection on primary production and dark respiration in reef corals. Limnol. Oceanogr. 36:936 - 948.
- Maney, E.J., J. Ayers, K.P. Sebens and J.D. Witman. 1991. Quantitative techniques for underwater video photography. In L.B. Cahoon, ed. Diving for Science. 1991. Proc. of the Amer. Acad. Underwater Sciences, 11th Ann. Symp., Wilmington, N.C.
- Witman, J.D. and K.P. Sebens. 1992. Regional variation in fish predation intensity: a historical perspective in the Gulf of Maine. Oecologia 90: 305 - 315.
- Sebens, K.P. and E.J. Maney Jr. 1992. A portable diver-operated plankton sampler for near-substratum use. In L.B. Cahoon, ed. Diving for Science. 1992. Proc. of the Amer. Acad. Underwater Sciences, 12th Ann. Symp., Wilmington, N.C.

- Helmuth, B.S.T. and K. P. Sebens 1993. The influence of colony morphology and orientation to flow on particle capture by the scleractinian coral *Agaricia agaricites* (Linnaeus). J. Exp. Mar. Biol. Ecol. 165:251 - 278.
- Johnson, A.S. and K P. Sebens. 1993. Consequences of a flattened morphology: effects of flow on feeding rates of the scleractinian coral *Meandrina meandrites*. Mar. Ecol. Prog. Ser. 99:99 - 114.
- Sebens, K.P. 1994. Biodiversity of Coral Reefs: What are We Losing and Why? Amer. Zool. 34:115 - 133.
- Aronson, R.B., J. P. Ebersole and K. P. Sebens. 1994. Hurricane Hugo's impact on Salt River submarine Canyon, St. Croix, U.S. Virgin Islands. In, Ginsburg, W. 1994. ed. Pp. 189 - 195. Proc. Coll. on Global Aspects of Coral Reefs: Health Hazards, and History, 1993. Univ. of Miami, FL
- Sebens, K.P. and T. J. Done. 1994. Water flow, growth form and distribution of scleractinian corals: Davies Reef (GBR), Australia. Proc. 7th Int. Coral Reef Symposium, Guam, 1992. Vol 1:557 - 568.
- Lesser, M., K. Sebens and J. Witman. 1994. Effects of flow and seston availability on scope for growth of benthic suspension feeding invertebrates from the Gulf of Maine. Biol. Bull. 187:319 - 335
- Durante, K.M. and K. P. Sebens. 1994. Reproductive ecology of the ascidians *Molgula citrina* Alder and Hancock, 1848 and *Aplidium glabrum* (Verrill, 1871) from the Gulf of Maine. Ophelia 39:1- 21.
- Sebens, K.P. 1995. In: H. A. Mooney et al. Ch. 6.1.10. Biodiversity and Ecosystem Functioning: Ecosystem Analyses: Coral Reefs (contributor, multiauthored). pp. 381-387. In: Global Biodiversity Assessment, V. H. Heywood, ed. Publ. for United Nations Environ. Programme. Cambridge Univ. Press. 1140 pp.
- Graham, K. and K. P. Sebens. 1996 Distribution of marine invertebrate larvae near vertical surfaces in the rocky subtidal zone. Ecology 77:933 - 949
- Sebens, K.P., J. Witting and B. Helmuth. 1996. Effects of water flow and aggregation on particle capture by the reef coral *Madracis mirabilis*. J. Exp. Mar. Biol. Ecol. 211:1 - 28.
- Sebens, K.P., K. Vandersall, L. Savina and K. Graham. 1996. Zooplankton capture by two scleractinian corals, *Madracis mirabilis* and *Montastrea cavernosa*, in a field enclosure. Marine Biology 127:303 - 318.
- Sebens, K. P. 1997. Adaptive responses to water flow: Morphology, energetics, and distribution of reef corals. Proc. 8th Int. Coral Reef Symposium, Panama City, 1996. Vol 2. 1053 - 1058.
- Heidelberg, K. B., K. P. Sebens, and J. E. Purcell. 1997. Effects of prey escape behavior and water flow on prey capture by the scleractinian coral, *Meandrina meandrites*. Proc. 8th Int. Coral Reef Symp. Panama City, 1996. 2:1081 - 1086.
- Helmuth, B. S. T, K. P. Sebens, and T. L. Daniel. 1997. Morphological variation in coral aggregations: branch spacing and mass flux to coral tissues. J. Exp. Mar. Biol. Ecol. 209:233 - 259
- Mills, M. M. and K. P. Sebens. 1997. Particle ingestion efficiency of the corals *Siderastrea siderea* and *Agaricia agaricites*: Effects of flow speed and sediment loads. Proc. 8th Int. Coral Reef Symposium, Panama City, 1996 Vol. 2:1059 - 1064.
- Sebens, K.P., E.J. Maney Jr., and A. Gordon. 1997. Long-term research in the rocky subtidal zone (Massachusetts, 1977 - 1997). Proc. American Academy of Underwater Sciences. pp. 141 - 159.
- Helmuth, B.S.T, B.H. Timmerman and K.P. Sebens. 1998. The interplay of host morphology and symbiont microhabitat in coral aggregations. Mar. Biol. 130:1 - 10.
- Sebens, K.P., S. Grace, B. Helmuth, E. Maney and J. Miles. 1998. Water flow and prey capture by three scleractinian corals, *Madracis mirabilis*, *Montastrea cavernosa* and *Porites porites* in a field enclosure. Marine Biology 131:347-360.
- Sebens, K. P. 1998. Marine flora and fauna of the Eastern United States. Anthozoa: Actiniaria, Corallimorpharia, Ceriantharia and Zoanthidea. N.O.A.A. Technical Rpt. NMFS. 141. 68 pp.
- Shyka, T. and K.P. Sebens. 2000. Community structure, water column nutrients and water flow in two Pelican Cays Ponds, Belize. Atoll Research Bulletin 471:106 - 121.
- Sebens, K. P. 2002. Energetic constraints, size gradients and size limits in benthic marine invertebrates. Integrative and Comparative Biology 42:853-861.
- Sebens, K.P., B. Helmuth, E. Carrington and B. Agius. 2003. Effects of water flow on growth and energetics of the scleractinian coral *Agaricia tenuifolia*, in Belize. Coral Reefs 22:35-47.
- Ferrier-Pagès, J. Witting, E. Tambutté and K. P. Sebens. 2003. Effect of natural zooplankton feeding on the tissue and skeletal growth of the scleractinian coral *Stylophora pistillata*. Coral Reefs 22:229-240.
- Heidelberg, K. , J. Purcell and K.P. Sebens. 2003. Composition and sources of near reef zooplankton on a Jamaican fore-reef. Coral Reefs 23:263-280.
- Mills, M. M., F. Lipschultz and K. P. Sebens. 2004. Particulate matter ingestion and associated uptake by four species of scleractinian corals. Coral Reefs 23:311-324.
- Mills, M.M., and K. P. Sebens. 2005. Ingestion and assimilation of nitrogen from benthic

- sediments by three species of corals. *Marine Biology* 145:1097-1106.
- Badgley, B.D., F. Lipschultz and K. P. Sebens. 2006. Nitrate uptake by the reef coral *Diploria strigosa* : effects of concentration, water flow, and irradiance. *Marine Biology* 149:229-238.
- Jenkins, S, Sebens, K.P. et al. 2008. Comparisons of the ecology of shores across the North Atlantic: do differences in players matter for process? *Ecology* 89(11): S3-S23
- Satterlie, R.A., J. S. Pearse and K.P. Sebens. 2009. The black box, the creature from the Black Lagoon, August Krogh, and the dominant animal. *Integrative and Comparative Biology* 49:1-4.
- Van Cleve, FB, G Bargmann, M Culver, and the MPA Work Group. 2009. Marine Protected Areas in Washington: Recommendations of the Marine Protected Areas Work Group to the Washington State Legislature. Washington Department of Fish and Wildlife, Olympia, WA. (MPA work group: K.P. Sebens et al.)
- Heidelberg, K.B., K. L. O’Neil, J.C. Bythell and K.P. Sebens. 2010. Vertical distribution and diel patterns of zooplankton abundance and biomass at Conch Reef, Florida Keys (USA). *Journal of Plankton Research* 32:75-91.
- Sebens, K.P. Editor. 2011. San Juan County Marine Stewardship Area, Monitoring Plan. Marine Resources Committee, San Juan County. 90 pp.
- Elahi, R. and K. P. Sebens. 2012. Consumers mediate natural variation between prey richness and resource use in a benthic marine community. *Marine Ecology Progress Series* 452:131-143.
- Sebens, K.P., G. Bernardi , M.R. Patterson, and D. Burkepale. 2013. Saturation Diving and Underwater Laboratories: How Underwater Technology Has Aided Research on Coral Biology and Reef Ecology. In: M. Lang ed. *Research and Discoveries: The Revolution of Science through Scuba*. Smithsonian Institution Press. Smithsonian Contributions to the Marine Sciences No. 39: 39-52.
- Elahi, R. and K.P. Sebens. 2013. Redundancy among invertebrate grazers leads to non-additive consequences for benthic community structure: a candidate mechanism for the maintenance of urchin barrens. *PloS ONE* 8(11): e78969. doi:10.1371/journal.pone.0078969.
- Elahi, R., T. Dwyer, K.R. Turner, C.B. Birkeland, and K.P. Sebens. 2014. Four decades, few changes: can subtidal rock walls serve as refuges from biodiversity loss? *Marine Biology* 160:3209-3219.
- Elahi, R. , T. Dwyer, and K.P. Sebens. 2014. Mesoscale variability in oceanographic retention sets the abiotic stage for subtidal benthic diversity. *Marine Ecology Progress Series*. 498:117-132.
- Carrington, E., H.J. Waite, G. Sara and K.P. Sebens. 2014. Mussels as a Model System for Integrative Ecomechanics. *Annu. Rev. Mar. Sci.* 2015. 7:9.1–9.27
- Elahi, R., K. P. Sebens, and G.A. De Leo. 2016. Ocean warming and the demography of declines in coral body size. *Mar. Ecol. Prog. Ser.* 560: 147–158, doi: 10.3354/meps11931
- Dayton, P.K. M.N. Dethier, Duggins, D., Kareiva, P. Koehl, M., Menge, B.A., Pfister, C.A., Ruesink, J.L., Sebens, K.P., Silliman P.R. and J.T. Wootton. 2016. Resolutions of Respect: Robert Treat Paine III, 1933–2016. *The Bulletin of the Ecological Society of America*, October 2016. 359-363.
- Turner, K.R., W.R. Rung and K. P. Sebens. 2017. Non-lethal analysis of the diet of copper rockfish in the San Juan Archipelago. *Northwest Science* 91: 81-89.
- Sebens, K.P. G. Sarà, M. Nishizaki. 2017. Energetics, Particle Capture and Growth Dynamics of Benthic Suspension Feeders. In. Bramanti et al. eds. *Marine Animal Forests: the Ecology of Benthic Biodiversity Hotspots*. Rossi S, Bramanti L, Gori A, Orejas C, Tsounis G , eds. Springer, NY, pp.1-42 DOI: 10.1007/978-3-319-17001-5_17-1
- Turner, K.R. and K.P. Sebens. 2018. Top-down control of prey by predatory fishes in ther San Juan Archipelago. *Marine Ecology Progress Series* (submitted, in revision)
- Wells, C.D. and K. P. Sebens. 2017. Individual marking of soft-bodied subtidal invertebrates *in situ* – A novel staining technique applied to the giant plumose anemone *Metridium farcimen* (Tilesius, 1809). *PLOS One*. Nov. 21 2017. <https://doi.org/10.1371/journal.pone.0188263>
- Heery, E. C. , A. Olsen, B. Feist, and K. P. Sebens. 2018. Urbanization-related distribution patterns and habitat-use by the marine mesopredator, the giant pacific octopus (*Enteroctopus dofleini*). *Urban Ecosystems*. DOI : 10.1007/s11252-018-0742-1
- Heery, E.C. and K.P. Sebens. 2018. Artificial structures as a source of elevated detrital loads for sedimentary environments. *Bulletin of Marine Science*. DOI : 10.1007/s11252-018-0742-1.
- Heery, E.C. and K.P. Sebens. 2019. Chapter 11: Northeast Pacific: Interactions on subtidal hard substrata. In: *Interactions in the Marine Benthos – Global Patterns and Processes*. Eds. Hawkins, S.J., Bohn, K. and Firth, L.B. Cambridge University Press (in press).

- King, W. and K.P. Sebens. 2018. Non-additive effects of air and water warming on an intertidal predator-prey interaction. *Marine Biology* 165: 64. <https://doi.org/10.1007/s00227-018-3320-4>
- Sebens, K.P., Sarà, G. and E. Carrington. 2018. Estimation of fitness from energetics and life-history data: An example using mussels. *Ecology and Evolution*. DOI: 10.1002/ece3.4004.
- Heery, EC, Sebens, KP. 2019 Chapter 11: Northeast Pacific: Interactions on subtidal hard substrata *Interactions in the Marine Benthos – Global Patterns and Processes* Cambridge University Press 260-300.
- Roberts, E, Newcomb, L, McCartha, M, Harrington, K, LaFramboise, S, Carrington, E, Sebens, K. 2021. Resource allocation to a structural biomaterial: induced production of byssal threads decreases growth of a marine mussel, *Mytilus trossulus*. *Funct Ecol* NA 000 000 (in press) DOI: 10.1111/1365-2435.13788

PUBLICATIONS IN THE POPULAR LITERATURE

- Sebens, 1979. Underwater photographs. In: D. McLachlan and J. Ayres, *Fieldbook of Pacific Northwest Sea Creatures*. Naturegraph Publishers, Calif. 208 pp.
- Sebens, K.P. 1981. Underwater Photographs. In: N. A. Meinkoth. *The Audubon Society Field Guide to North American Seashore Creatures*. Chanticleer Press, New York, 800 pp.
- Sebens, K. P. 1986. The anemone below: colorful contenders battle for territory amidst tidal rock and reef. *Natural History* 95: 48 - 55. (included color photographs by K. Sebens)
- Sebens, K.P. 1990. Illustrations and equipment description. pp 26,45,46. In: J. Coyer and J. Witman, *The Underwater Catalog: A Guide to Methods in Underwater Research*. Shoals Marine Laboratory/N.Y. Sea Grant Program. 72 pp.
- Sebens, K.P. 1997. Zooplankton capture by reef corals: corals are not plants! *Reef Encounter*, Newsletter of the Int. Society for Reef Studies. 21:10 - 15.
- Sebens, K.P. 1997. A shoal of American shad (photograph). In: Mann et al. 1997. A clupeid fish can detect ultrasound. *Nature* 389:341
- Sebens, K.P. and S. Laggan (ed.). 2013. Safeguarding marine species: a dynamic approach to preservation. *International Innovation*. February 2013. Research Media Ltd., Bristol, UK. <http://www.king5.com/article/tech/science/environment/acid-test-uw-focuses-on-climate-change-and-ocean-acidification/281-515785200> (interview with K. Sebens, February 2018)

PAPERS PRESENTED AT SCIENTIFIC MEETINGS: ABSTRACTS (since 2005 – not a complete listing)

- Sebens, KP; O'Neill, K; Heidelberg, KB. 2006. Vertical Distribution and Diel Patterns of Zooplankton over a Florida Coral Reef. ASLO Meeting. EOS, Transactions, American Geophysical Union 87. suppl., Sept 2006.
- O'Neill, K, Sebens, KP, Heidelberg, KB. 2008. Diel Patterns of Abundance and Vertical Distribution Of zooplankton over a Florida Coral Reef. Abstracts, 11th Int. Coral Reef Symposium, Ft. Lauderdale, Reefs For the Future, July 2008. p. 462
- McCollum, B.A. and Sebens, K.P. 2009. Community structure and dynamics in rocky subtidal marine preserves, San Juan Islands, Washington. *Western Soc. of Naturalists*, Monterey, CA
- Turner, K. R. and Kenneth P. Sebens. 2010. Predator effects on benthic communities in the San Juan Islands, WA. *Amer. Soc. Limnology and Oceanography*. 2010
- Elahi, R. and K P. Sebens. 2010. Diversity, consumer pressure and resource availability on subtidal rock walls. *Society for INTEGRATIVE AND COMPARATIVE BIOLOGY*, ICB 50: E49-E49 Suppl. 1 JUL 2010
- Turner, K.R. and Sebens, KP. 2010. Indirect effects of marine protected areas on early community development in the San Juan Islands, WA. *SOC for INTEGRATIVE AND COMPARATIVE BIOLOGY*, ICB 50: E177-E177 Suppl. 1 JUL 2010
- Rock, M.O., R. Elahi and K. P. Sebens. 2011. What are chitons biting? A quantitative diet analysis of five species from subtidal rock walls in the Salish Sea. *WSN*, San Diego, California
- Elahi, R. and K. Pl. Sebens. 2011. Grazer-prey interactions, missing trophic links, and mesoscale oceanographic variation in subtidal epifaunal communities. *Salish Sea Ecosystems Conference*

- Vancouver, BC
- Turner, K. R., and Sebens, Kenneth P. 2011. Impacts of lingcod and rockfish on benthic community structure. Salish Sea Ecosystems Conference, Vancouver BC
- Turner, K.R., and Sebens, K.P. 2011. Lingcod and rockfish impacts on benthic community structure. Western Society of Naturalists. San Diego, CA.
- Sebens, K.P. 2011. Marine Laboratories: Ocean Infrastructure and Technology for Research and Education. Symposium: Ocean Technology and Infrastructure Needs for the Next 20 Years. ASLO, Portland, OR
- Turner, K.R. and K.P. Sebens. 2011. Predatory fishes' impacts on benthic community structure in the San Juan Islands, WA. SOC. for INTEGRATIVE AND COMPARATIVE BIOLOGY, ICB 51: E140-E140 Suppl. 1. April 2011.
- Sebens, K.P. 2012. Water flow, nutrition, and limits to growth in reef corals. International Coral Reef Symposium, Cairns, Australia.
- Elahi, R, Sebens, KP . 2012. A consumer one-two punch: facilitation and functional diversity prevent reversals in community state. Soc. for INTEGRATIVE AND COMPARATIVE BIOLOGY, ICB 52: E53-E53 Suppl. 1 APR 2012
- Elahi, R. and K.P. Sebens. 2012. Functional redundancy and the non-additive impacts of marine consumers. Ecological Society of America; Portland, OR (poster)
- Turner, K.R. and K.P. Sebens. 2012. Lingcod and rockfish impacts on benthic community structure. Soc. for INTEGRATIVE AND COMPARATIVE BIOLOGY, ICB 52: E178-E178 Suppl. 1 APR 2012
- Turner, K.R. and K. P. Sebens. 2013. Top-down control of prey populations by predatory fishes in the San Juan Islands, WA, Benthic Ecology Meetings, Savannah, GA.
http://ceps.georgiasouthern.edu/conted/bem_PDFs/bemoralabstracts.pdf
- Heery, E. and K. P. Sebens. 2013. The role of urchins in urban marine. Western Society of Naturalists, CA
- Heery, E. and K. P. Sebens. 2014. Subtidal riprap in Puget Sound: Its ecological structure and function, and its impact on adjacent soft sediment environments. Salish Sea Ecosystems Conference. Seattle, WA
<http://cedar.wvu.edu/ssec/2014ssec/Day2/11/>
- McCarthy, M. L. Newcomb, E. Carrington, and K.P. Sebens. 2014. Shifts in energy elucidate responses to changes in the environment in *Mytilus trossulus*. Salish Sea Ecosystems Conference. Seattle, WA
<http://cedar.wvu.edu/ssec/2014ssec/Day2/311/>
- Turner, K.R., D. Smith, M. Brant, and K.P. Sebens. 2014. Facilitation of rockfish by octopus in the Salish Sea. Salish Sea Ecosystems Conference. Seattle, WA. <http://cedar.wvu.edu/ssec/2014ssec/Day3/122/>
- Heery, E. and K. P. Sebens. 2014. Material fluxes from subtidal man-made structures to adjacent soft sediment habitats in the urban subtidal. Western Society of Naturalists, Tacoma, WA
- Sebens, K. P. 2015. Integrative and Comparative Ecology. Past-Presidential Plenary Talk. SICB Annual Meeting, Florida. <http://www.sicb.org/meetings/2015/schedule/abstractdetails.php?id=1304>
- Sebens, K.P and E. J. Maney Jr. 2017. Decadal Scale Research in Rocky Subtidal Habitats, Massachusetts Bay (1978-2017). Coastal and Estuarine Research Federation. Providence, Rhode Island. November 2017.
- Wells, C.D., Yerrace, S., Rautu, T.S., Spencer, D., Sebens, K.P. 2019. Population distribution and predator-prey relationships of the giant frilled anemone *Metridium farcimen* in the San Juan Islands. SICB Meeting. <http://vps40083.inmotionhosting.com/~sicb/meetings/2019/schedule/abstractdetails.php?id=1733>
- Sebens, K. P. 2019. Evaluating trait-environment interactions using measures of performance linked to fitness and population response models. SICB meeting. *Ekoechological Biomechanics: A Tribute to Mimi Koehl, II* <http://vps40083.inmotionhosting.com/~sicb/meetings/2019/schedule/abstractdetails.php?id=1402>
- Roberts, E.A., Newcomb, L.A., McCarthy, M.M., Harrington, K.J., LaFramboise, S.A., Carrington, E., Sebens, K.P. 2020. Resource allocation to a structural biomaterial: induced production of byssal threads decreases growth of a mytilid mussel. Western Society of Naturalists Annual Meeting, Vancouver, B.C.

BOOK REVIEWS

- Sebens, K. P. 1984. Review of; Sublittoral Ecology: the Ecology of the Shallow Sublittoral Benthos. R. Earll and D. G. Erwin, eds. 277 pp. Oxford University Press (1983) American Scientist, Vol. (Nov - Dec.); pp. 629.
- Sebens, K. P. 1986. Review of; Diving and Marine Biology: The Ecology of the Sublittoral. G.

Warner. 210 pp. Cambridge Univ. Press (1986) American Scientist. Vol.
Sebens, K. P. 1989. Review of: The Community Ecology of Sea Otters. G. Van Blaricom and J. A. Estes, eds. Springer Verlag 1987. 247 pp. Science 243: 954 - 955.

TECHNICAL REPORTS

Sebens, K. P. and R. Shimek. 1974. Analysis of potential impact on the marine environment (baseline study). Town of Friday Harbor, Washington. 36 pp.
Sebens, K. P. and J. D. Witman. 1988. Rocky subtidal benthic surveys at a proposed sewage outfall location in Mass. Bay. Report to Battelle Ocean Sciences Inc., and Mass. Water Res. Auth. 30 pp.
Sebens, K.P. and J. D. Witman. 1990. Effects of sewage effluent and sludge outfall on the rocky subtidal benthos of Broad Sound, Mass. Report to Massachusetts Water Res. Authority. 54 pp.
Witman, J. D. and K. P. Sebens. 1993. Rocky subtidal communities in Massachusetts Bay: Lovell's Island to Nahant Transect. Report to the Massachusetts water Resources Authority. 84 pp
Sebens, K.P. Ed. 2009, 2011. San Juan County Marine Stewardship Area, Monitoring Plan. Marine Resources Committee, San Juan County, WA. 90 pp.
Sebens, K, Carrington, E, Gagnon, A, Grunbaum, D, Lessard, E, Newton, J, Swalla, B 2020 Temperature and salinity recorded from 2018-2020 from a sensor array that measures pH, pCO₂, temperature, salinity, dissolved oxygen, chlorophyll, turbidity, and current velocity at Friday Harbor Laboratories Ocean Observatory (FHLOO). Biological and Chemical Oceanography Data Management Office (BCO-DMO)

GRANTS AWARDED (since moving to UW, 2005)

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) (2005-2007) \$48,685
N.I.H. Genomics and the Life Aquatic. Symposium, Friday Harbor Labs, UW (B. Swalla, C. Amemiya, CO-PIs) (2006 – 2007) \$13,000
NOAA, WA Seagrant. Comparative Studies of the San Juan Archipelago Pelagic Ecosystem during the Fall Transition. (J. Newton Co-PI) (2008-2009) \$20,000 (apprenticeship program)
NSF, Field Stations and Marine Labs. Graduate housing at FHL, (2008-2010) \$250,000 (w/ \$250,000 UW match)
NSF, Field Stations and Marine Labs. Ocean Acidification Research Facility at FHL, (2008-2010) \$275,000 (w/ \$350,000 UW match, \$75,000 donations) DBI-0829486
Provost's Bridge Fund (UW). Subtidal ecological research at FHL (2008-2009) \$50,000 Plus \$50,000 FHL match.
Washington Research Foundation. Research Apprenticeship Program, FHL (2007-2008) \$140,000. (other amounts annually, 2005-2007)
NOAA. Marine Mammal Surveys at FHL (2012-2013) \$12,500. (K. Sebens PI, R. Hanson, primary researcher) other amounts awarded annually 2009-2012
Washington DOE. Joint Effort to Monitor the Strait. (2012- 2013) \$33,942 (K.Sebens, PI, J. Newton, primary researcher). Other amounts awarded annually 2006-2012.
NSF, GK-12 Program. UW OACIS – Ocean and Coastal Interdisciplinary Science (2008-2013) (D. Armstrong, D. Grunbaum Co-PIs) \$2,890,000
NSF Biological Oceanography (2009-2013) OCE0925718, Spatial Subsidy and Trophic Connectivity between Nearshore Macrophyte Production and Subtidal Food Webs (D. Duggins PI, S. Simonstad, J. Eckman Co-PIs) \$893,463
NSF Biological Oceanography (2009-2013) OCE0850809, Effects of marine preserves and nonindigenous species on rocky subtidal communities: indirect interactions, disturbance and community dynamics \$718,4888
Provost's Bridge Fund (UW). Subtidal ecological research at FHL (2014-2015) \$36,500 Plus \$36,500 CoEnv/FHL match.
State of Washington Department of Commerce. FHL ESCO 2013 Application to WA Department of Commerce (for energy saving improvements at UW FHL). \$533,147, UW cost-sharing

\$ 799,853 # 13-93222-038 (2012-2015)
NSF IGERT: Integrative Graduate Training In Ocean Change (2011-2018) Terrie Klinger
(Principal Investigator), Kenneth Sebens, James Murray, Thomas Leschine (Co-Principal
Investigators) \$3,155,350. DGE 1068839
NSF FSML: Instrumentation at UW Friday Harbor Laboratories for Studies of the Biological
Impacts of Ocean Acidification and Ocean Change (2014-2018) \$349,889 DBI-1418875

GRADUATE STUDENTS (UW only, 28 at previous institutions)

University of Washington: Biology and SAFS (S)

Robin Elahi (2006 - 2012). Recruitment processes in the subtidal zone (Ph.D.)
Aaron Galloway (2010-2013). Spatial subsidies in subtidal habitats, herbivory (Ph.D.)(S)
Derek Smith (2010-2018). Benthic ecology of coral reefs and Mediterranean (Ph.D.)
Eliza Heery (2010-2017). Marine community ecology, ecosystem modeling (Ph.D.)
Kevin Turner (2006 – 2015). Ecology of the rocky subtidal zone (Ph.D.)
Christopher Wells (2014-2019). Ecology of marine invertebrates (Ph.D.)
William King (2014-2019). Ecology of marine communities (Ph.D.)

Graduate Student Dissertation/Thesis Advisory Committees (since 2005)

Elizabeth Wheat (2006-2012), Univ. of Washington, Biology
Katherine Fagan (2006-2013), Univ. of Washington, Oceanography
Megan Black (2008-2017), Univ. of Washington, Biology
Lauren Vandepas (2012-2018) Univ. of Washington, Biology
Katie Dobkowski (2012-2018) Univ. of Washington, Biology
James Dimond (2014-2019) Univ. of Washington. SAFS
Emily Roberts (2015-2020) Univ. of Washington, Biology

HONORS/CAPSTONE UNDERGRADUATE ADVISEES (since 2005)

Amy Green (2013-2015), UW SAFS capstone
Michelle Louie (2014-2015), UW SAFS capstone
Michaelene Corlett (2015-2016) UW SAFS Capstone
Danica Sheridan (2015-2016) UW SAFS Capstone
Elliott M. Allen (2017-2018) UW SAFS Capstone
Jacqueline Baltziskis (2019-2020) SEFS Capstone

POSTDOCTORAL RESEARCHERS

Mark R. Patterson (1984 - 1985), Ph.D., Harvard University (MSC Postdoc, Northeastern)
Amy Johnson (1986 - 1988), Ph.D., University of California, Berkeley (MSC Postdoc)
Peter Edmunds (1989-1990), Ph.D. University. (MSC Postdoc)
Joaquim Garrabou (1998 - 2000), Ph.D., Universitat de Barcelona, Spain (UM Postdoc)
Karla Heidelberg (1999 - 2001), Ph.D., University of Maryland, College Park (UM Postdoc)
Hannah Stewart (2007 - 2008), Ph.D., University of California, Berkeley (UW FHL Postdoc)
Sarah Gilman (2005 - 2007), Ph.D. Stanford University (UW FHL Postdoc)
Svetlana Maslakova (2006 - 2007) Ph.D. George Washington University (UW FHL Postdoc)
Robin Kodner (2008-2010), Ph.D., Harvard University (UW FHL Postdoc)
Michael O'Donnell (2007-2009), Ph.D. Stanford University (UW FHL Postdoc)
Chris Newfeld (2011-2012), Ph.D. University of Alberta (UW FHL Postdoc)
Note: FHL postdocs can work with any FHL faculty, and also assist the Director of FHL

COURSES TAUGHT (UW only)

University of Washington (2005 - present) (G, graduate level, U, undergraduate):
Ecology Seminar (with J. Ruesink), annually 2006-2019, alone 2020 (1 cr.) (G)

Marine Benthic Ecology Research Apprenticeship (with M. Dethier) (6 cr.) 2007 (U)
Subtidal Ecology Research Apprenticeship (with D. Duggins) (15 cr.) 2007 (U,G)
Spatial Ecology Research Apprenticeship (with G. Greene) (15 cr.) 2011 (U,G)
Topics in Advanced Ecology Biology/Fish 567 (2009, 2011, 2015, 2017) (with
D. Sprugel, J. Ruesink and others)(G)
Marine Environmental Research Apprenticeship (6 cr.) 2013 (U)
Invertebrate Zoology, Biology 434 (5 cr.) 2014, 2105, 2016, 2017, 2018, 2019,2020,2021 (U)
Foundations of Ecology, Biology 356 (3 cr.) 2014 (U)
Seminar in Ecology, Biology 486 (2 cr.) 2017, 2018, 2019,2020 (U)
Marine Ecological Processes 423 (3 cr.) 2016 (U)
Undergraduate Research, Biol 499 (2 cr.) 2014, 2015, 2016, 2017, 2018, 2019, 2020
SAFS Capstone Research Fsh 494/5 (2 cr.) 2014, 2015, 2016, 2017, 2018, 2019, 2020

NATIONAL/INTERNATIONAL MEETINGS ORGANIZED (since 2005):

Western Association of Marine Laboratories, UW FHL 2009
Western Association of Marine Laboratories, Seward, AK 2010
Marine Resources Committee, San Juan Co., Marine Managers Conference FHL 2007-2015
Society for Integrative and Comparative Biology, 2010-2015 annual meetings (Exec. Officer)

INVITED SEMINARS (2004 – present, not a complete listing)

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
University of Oregon, OIMB, November 2008
National Association of Marine Laboratories, March 2010
World Association of Marine Laboratories, April 2010
UW FHL Seminar, Coral Ecology, June 2010
UW FHL Natural History of the Subtidal Zone, Oct. 2010, May 2011, 2012, 2013
UW FHL Seminar, Water flow and coral biology - Biomechanics, July 2012
Universita' degli studi di Palermo, Italy. April 2013
Plenary Speaker, SICB annual meeting, West Palm Beach, FL, January 2015
UW FHL Seminar, Subtidal Community Ecology, 2016
UW FHL Marine Biology Quarter, Coral Reef Ecology 2016

SERVICE: UNIVERSITY (UW 2005 - present)

University and Departmental (UW Biology):

Director, Friday Harbor Labs, UW, (meets with: FHL Advisory Committee,
Executive Committee, Preserves Committee) (2005-2013)
UW College of the Environment, Structure Committee (2007-2008)
FHL Advancement Board, and Focus Committee (2006-2013, ex officio)
Provosts' FHL Financial Working Group (2009-2010)
Provost's Committee on FHL Strategic Planning (2010)
FHL Executive Committee (2013- present)
FHL Associate Director Search Committee, Chair (2007-2008)
NSF OACIS GK-12 Program, PI and Steering Committee (2008-2013)
Helen R. Whiteley Ctr. Advisory Committee, (2006-2013)
College of the Environment, Executive Committee (2010-2013)
IPOC: IGERT Co-PI and Executive Committee (2011- 2018)
Promotion and Tenure Committee, Biology (2012-2014) Chair 2014
Faculty Merit Review Committees (2006-2021)
Promotion Merit Tenure Committee (PMTTC) (2020-2021)

Promotion Merit Tenure Planning Committee (PMTTC) (2019-2020), Chair

Other Service and Outreach (2005-present):

Marine Resources Committee, San Juan County WA (2005-2015), Chair:

Science Subcommittee (2007-2011) meetings two mornings per month

San Juan County Local Implementation Organization, for the Puget Sound Partnership

(Action Agenda Organizing Committee) (2010-2015) monthly meetings

FHL Open House, Organizer and/or Presenter (to >700 visitors) May 2007-2014

San Juan Nature Institute – collaborator and advisor for joint programs (2006-2013)

Marine Science Associates Lecture Series (2006-2012), organizer

FHLSOP K-12 Program – participant, supervisor and advisor (2005-2013)

UW OACIS GK12 Program – PI and Steering Committee, UW graduate students working with SJC and Seattle High Schools (2008-2013)

The Fund-Raising School, participant, May 2009 (1 week course), Seattle

Marine Protected Areas Work Group, Olympia WA, 2008-2010 (WA State)

UNESCO Meeting: WAMS (World Assoc. of Marine Stations, founding mtg), 2010

Marine Resources Committee, San Juan Co., Marine Managers Conference FHL 2007-2015

Puget Sound Partnership, Action Agenda Implementation Committee (Local Integrating Organization) 2010-2015

WAML (Western Assn. of Marine Laboratories), President (2009-11), NAML Board (2005-2013)

SICB (Soc. Integrative and Comparative Biology), President (2011-2013), Ex.Com.(2009-2015)

Advisory Committee (past presidents, 2015-present)

DEI and Mentoring Document.

a) How have you contributed to diversity, equity, and inclusion, in your research, service, and/or teaching?

During the past 16 years at UW, I have been actively involved in efforts aimed at increasing diversity and inclusion in our programs. These include the summer Blinks Program at UW Friday Harbor Laboratories, the summer NSF REU program at FHL (as FHL Director), and both NSF IGERT and GK-12 graduate training programs, for which I was PI and Co-PI. Each of these programs had a stated goal of increasing diversity in our undergraduate research efforts, and in our graduate programs. During the past two years, I have been attending seminars and discussion groups in Biology and SAFS aimed at improving diversity in our departmental activities, and in hiring. In my teaching, I have made an effort to feature examples of scientists from under-represented groups actively conducting research in that particular area of endeavor, several of whom I know personally and/or had mentored. This has been particularly evident in my fall 2020 senior seminar on coral reef ecology, and in my invertebrate zoology course in winter 2021.

b) Please describe your approach, efforts and accomplishments related to mentorship.

Over my career, I have mentored over 35 graduate students (as advisor), and served on committees for many more. I am not accepting new graduate student advisees at this time, partly because I do not have research or stipend funding for them, and also because of my proximity to retirement. However, I am continuing to assist other graduate students in the department, particularly those working at the UW Friday Harbor Laboratories where I am conducting field research. This includes providing boat time, diving assistance, camera equipment and training, and training in the use of flow measuring instruments. I have also advised on energetics modeling, and I am co-author on a recent paper with one of Dr. Emily Carrington's former graduate advisees, Molly Roberts. This paper also includes three undergraduate researchers as co-authors, two of whom I supervised in a research course at FHL. Another former graduate advisee, Chris Wells, is currently preparing a manuscript from his dissertation for submission including three undergraduate researchers in our laboratory as co-authors. During summer 2020, I mentored a recently graduated student who worked full time in my laboratory at FHL, on data analysis and development of statistical analysis programs. Each year, I and my graduate students have mentored several undergraduates working in the laboratory for research credits. I have also supervised six SAFS capstone research projects in my laboratory, also in collaboration with one or more of my graduate students. Because of covid19, this has not been possible over the last year, however one of the undergraduates has continued to work remotely on a long-term research project, and another has graduated but is also continuing to assist on this project regularly. These students are analyzing abundance data from underwater photos taken during a 42 year project.