

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 Science 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 zoanthids. 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 zoanthids 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 zoanthids (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.

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- 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: 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.
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- 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.
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- Patterson, M. R. and K. P. Sebens. 1989. Forced convection modulates gas exchange in cnidarians PNAS 86:8833 - 8836.
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- 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.
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- 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

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- 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
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- 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. Burkepile. 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.
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- 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.
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- 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

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 2000 – not a complete listing)

- Mills, M.M., F. Lipschultz and K. P. Sebens. 2000. Uptake of suspended and deposited material associated nitrogen by scleractinian corals. 9th Int. Coral Reef Symposium, Bali. Abstracts. A10.23
- Sebens, K.P., J. Witting and C. Ferrier-Pagès. 2001. Zooplankton capture by corals: effects on tissue and skeletal growth. *Am. Soc. of Limnology and Oceanogr.*, Santa Fe, NM. Abstracts. CS11 - 3.
- Heidelberg, K.B. and K.P. Sebens. 2001. Temporal patterns, abundance, and composition of near reef zooplankton on a Jamaican coral forereef. *Am. Soc. of Limnol. and Oceanogr.* Abstracts CS37 - 20.
- Agius, B. and K. P. Sebens. 2001. Community ecology of rocky shores: long-term research in the subtidal zone (1978 - 2001). *Am. Soc. of Limnology and Oceanography*, Santa Fe, NM. Abstracts. SS40 -18.
- Heidelberg, K. and K. P. Sebens. 2001. Zooplankton distribution on coral reefs; implications for coral prey capture. *Amer. Soc. Limnol. Ocean. Aquatic Sciences Mtg.*, Santa Fe, NM.
- Sebens, K.P., J. Witting and C. Ferrier-Pages. 2001. Zooplankton capture by reef corals enhances tissue and skeletal growth. 30th Annual Marine Benthic Ecology Meetings, Durham N. Hampshire. Abstracts. p. 151
- Agius, B.P. and K. P. Sebens 2001. Multidecadal community ecology: research in the rocky subtidal zone of Massachusetts (1978 - 2000). 30th Annual Marine Benthic Ecology Meetings, Durham, N. Hampshire. Abstracts. p. 28
- Badgley, B.D., F. Lipschultz, and K. P. Sebens. 2001. Nitrate uptake by a Bermudian scleractinian coral, *Diploria strigosa*, under realistic environmental conditions. 30th Annual Marine Benthic Ecology Meetings, Durham, N. Hampshire. Abstracts. p.33
- Geraldi, N.R. and K. P. Sebens. 2001. Rocky subtidal community ecology: comparison of photographic and video sampling of benthic surfaces. 30th Annual Marine Benthic Ecology Meetings, Durham, N. Hampshire. Abstracts. p. 211
- Sebens, K.P. 2001. Long term population dynamics of nudibranch mollusks in New England. *World Congress of Malacology*. Vienna, Austria, Abstracts.
- Sebens, K.P. 2002. Size gradients in intertidal and subtidal marine invertebrates: the role of energetic and mechanical limits. *SICB*, Anaheim, CA, Abstracts.
- Sebens, K.P. 2002. Water flow, growth and energetics of corals in Belize. Benthic Ecology Meeting

- Orlando, FL, Abstracts.
- O'Neill, K., K. Heidelberg, and K.P. Sebens. 2002. Distribution and Abundance of Zooplankton at Three Depth Increments Over a Florida Coral Reef. Benthic Ecology Meetings' Orlando, FL, Abstracts
- Sebens, K.P. 2003. Location, allocation, translocation: determinants of growth rate in corals. SICB, Toronto, Canada SICB, Abstracts.
- Sebens, K.P. 2003. Environmental factors limiting tissue and skeletal growth in reef corals. Benthic Ecology Meetings, Groton, CT, Abstracts.
- Goodbody, G.G. and Sebens, K.P. 2003. Sea urchin demography, Benthic Ecology Meetings, Groton, CT, Abstracts.
- Sebens, K. P. 2004. Environmental controls on tissue and skeletal growth in reef corals. American Society of Limnology and Oceanography, Honolulu, HI, Abstracts.
- Sebens, K.P. and F. Lipschultz 2004. Water flow and its effects on coral nutrition across a broad range of reef habitats in Bermuda. Int. Coral Reef Symposium, Okinawa.
- Lipschultz, F. and K. P. Sebens. 2004. Kinetics of nutrient uptake in corals: bridging the gap between biology and engineering. Int. Coral Reef Symposium, Okinawa
- Carrington, E., B. Helmuth and K. P. Sebens. 2004. Energetics and temperature stress in corals. Int. Coral Reef Symposium, Okinawa
- 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/>
- McCartha, 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>
- 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. *Ekoehlogical Biomechanics: A Tribute to Mimi Koehl, II* <http://vps40083.inmotionhosting.com/~sicb/meetings/2019/schedule/abstractdetails.php?id=1402>

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.
- 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.

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.

Ph.D. DISSERTATION

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

GRANTS AND FELLOWSHIPS AWARDED

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Univ. of Maryland, GRB Semester Research Award (Spring 1999), semester salary (sabbatical) Fulbright Senior Scholars Program. U.S. Israel Educational Foundation. Coral Reef Ecology. \$23,000. February - August 1999 (funding not accepted, time conflict with other awards)

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

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

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

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

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:

Harvard University:

Philip S. Lobel, 1977 - 1979 (Ph.D.) coral reef fish ecology
 Kent Redford, 1977 - 1983 (Ph.D.) ecology of myrmecophagous mammals
 Richard R. Olson, 1978 - 1984 (Ph.D.) larval ecology of ascidians
 Richard Aronson, 1979 - 1985 (Ph.D.) ecology and behavior of octopus, ophiuroids
 Colleen Cavanaugh, 1979 - 1985 (Ph.D.) biology of bacteria-invertebrate associations (with J. McCarthy, co-advisor)
 Mark Patterson, 1979 - 1985 (Ph.D.) biomechanics of benthic marine organisms. (with T. McMahon, co-advisor)

Northeastern University:

C. Shannon Briscoe, 1986 - 1988 (M. S.). predatory effects of sea urchins.
 Kathleen Durante 1985 - 1988 (M. S.). reproductive ecology of ascidians.
 Brian Helmuth 1989 - 1991 (M. S.) particle capture by corals
 Julia S. Miles 1985 - 1992 (Ph.D.). coelenterate agonistic behavior and energetics
 Krista Graham 1989 - 1992 (M. S.). spatial patterns of larval dispersal
 Douglas Updike 1988 - 1992 (M. S.) larval ecology of octocorals
 Laura Savina 1989 - 1992 (M. S.) coral symbiosis physiology
 Maria Abate (1992 - 1998) coral reef fish ecology (Ph.D., F. Davis, co-advisor)
 Katherine Paull (1992 - 2000) crustose algal ecology (Ph.D., C. Ellis, co-advisor)
 Jan Witting (1992 - 2000). suspension feeding by anthozoans (Ph.D., J. Ayers, co-advisor)

University of Maryland:

(ZOOL – Zoology, BIOL – Biology, MEES – Marine Estuarine Env. Sciences Program)
 Karla Heidelberg (1992 - 1999) feeding biology of anthozoans (J. Purcell, co-advisor) (Ph.D.). UMCES Graduate Fellowship recipient (1996 - 1997), MEES
 Matthew Mills (1993 - 2000). suspension feeding by corals (Ph.D.) BIOL
 Kelton Clark (1993 - 2001). predator prey interactions in estuaries (A. Hines, co-advisor)(Ph.D.) MEES
 Brenda Richardson Mallon (1996-1999) Coral bioerosion (Ph.D. Program) BIOL
 Thomas Shyka (1993 - 2000) nutrient ecology of coral reefs (M. S.) MEES
 Andrea Mandella (1994 - 1996) molecular biology of corals (M. S.) ZOOL
 Kimberley Benson (1997 - 1998). water flow effects on benthos (M. S. program)

UMCP Graduate Fellowship recipient, 1997 - 1998, MEES (trans. to CONS)
 Brian Badgley (1997 - 2001). nutrient effects on reef corals (M. S.)
 UMCP Graduate Fellowship recipient, 1997 - 1999. MEES
 Thomas Eldridge (1999 - 2001) sea urchin population biology (M. S. program) MEES
 (transferred to Northeastern Univ.)
 Elizabeth Jewett (1998 - 2005) biology of invasive species (Ph.D.) BIOL
 (NSF Training Grant, fellowship)
 Ruth Kelty (1998-2000) (Ph.D) Phosphorus uptake by reef corals MEES
 Tanja Slota (1999 - 2002) Zooplankton dynamics on coral reefs (M.S.) MEES
 Mark Lupisella (2000 - 2006). Models of Mars contamination (Ph.D.) BIOL
 James Sikes (2003 - 2004) Coral reef ecology (M.S.) BEES (transferred)
 Safra Altman (2003 - 2004) Ecology of Invasive Species (Ph.D.) BEES (transferred)

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.)