

CURRICULUM VITAE:

ROBERT S. STENECK

Professor
School of Marine Sciences
University of Maine
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BORN: 28 August 1950, New York, New York

EDUCATION

- Ph.D. 1982 The Johns Hopkins University, Baltimore, Maryland: Earth and Planetary Sciences (Ecology and Evolution)
M.S. 1978 University of Maine, Orono, Maine: Botany and Plant Pathology (Marine Ecology)
B.S. 1973 Baldwin-Wallace College, Berea, Ohio: Biology/Geology (Honors)

PROFESSIONAL POSITIONS

- 1996 - Present, Professor, School of Marine Sciences, University of Maine
1995 - 1996 Professor, Department of Oceanography and Marine Studies, University of Maine
1995 Research Collaborator, National Museum of Natural History, Smithsonian Institution, Washington, D. C.
1993 Adjunct Graduate Faculty, University of South Alabama, Mobile, AL
1992 Adjunct Graduate Faculty, Graduate School of Environmental Studies, Bard College, Annandale, N.Y.
1992 Visiting Professor, Dept. of Zoology, Cape Town University, Cape Town, South Africa.
1991 Visiting Professor, Dept. of Ecology, Catholic University, Santiago, Chile
1990 - 1994 Associate Professor, University of Maine, (Department of Oceanography and Marine Studies)
1989 - 1990 Associate Professor, University of Maine (Botany Department, Marine Studies and Oceanography Program)
1986 - 1990 Assistant Professor, University of Maine (Botany Department, Marine Studies and Oceanography Program)
1985 - Present Regional Coordinator for National Oceanic and Atmospheric Administration's National Undersea Research Program in the Gulf of Maine.
1982 - 1985 Research Assistant Professor, University of Maine (Zoology Department, Marine Studies and Oceanography Program)
1984 Visiting Professor, University of Washington, Friday Harbor Laboratory, Friday Harbor, WA. (Marine Ecology)
1981 - 1982 Smithsonian Institution Predoctoral Fellow (Marine Ecology and Evolution)
1977 - 1981 Smithsonian Institution Research Associate (Marine Ecology and Evolution)

- 1978 - 1981 Research Assistant, Johns Hopkins University (Earth and Planetary Sciences)
- 1978 Teaching Assistant, Johns Hopkins University (Invertebrate Zoology and Paleontology)
- 1978, 1982, 1987 Instructor, Discovery Bay Marine Laboratory, Jamaica (Coral Reef Ecology)
- 1975 - 1977 Research Assistant, University of Maine (Algal Ecology)
- 1974 - 1976 Teaching Assistant, University of Maine (Biology and Botany)
- 1973 - 1974 Research Assistant, Smithsonian Institution (Coral Reef Ecology and Geology)

HONORS, GRANTS, AWARDS

- 1972 - 1973 Omicron Delta Kappa Award (Academic Leadership)
- 1979 - 1981 The Johns Hopkins University Graduate Fellowship
- 1980 Sigma Xi Grant in Aid Research
- 1981 E. R. Fenimore Johnson Fund Research Grant
- 1981 Smithsonian Institution Predoctoral Fellowship in Department of Paleobiology
- 1981 International Paper Grant in Aid of Research
- 1982 NOAA- Hydrolab mission (82-6), \$7920.
- 1982 UMO Faculty Research Fund Grant, \$1600.
- 1983 Elected member of Sigma XI
- 1983 NSF Grant (Biological Oceanography), two years, \$151,793.
- 1984 NOAA (National Undersea Research Program [UCAP- R/V Johnson Sea-Link]), \$20,000
- 1984 Sea Grant Lobster ecology, two years, \$25,046.
- 1985 NOAA (National Undersea Research Program [UCAP- R/V Edwin Link Sea-Link]), \$60,000
- 1985 NOAA (National Undersea Research Program (UNC - R/V Seahawk)
- 1986 NSF Grant (Biological Oceanography), two years, \$174,893.
- 1986 NOAA (National Undersea Research Program (UCAP- R/V Seward Johnson Sea-Link), \$52,000, Regional Coordinator for Gulf of Maine Submersible Research
- 1986 Sea Grant Lobster ecology, three years, \$106,401
- 1987 NSF Supplemental Grant (Biological Oceanography) Research Experiences for Undergraduates \$8,000
- 1988 NOAA/NURP/WIL - Saturation diving mission (87-5) \$12,987
- 1988 NOAA (National Undersea Research Program [UCAP- R/V Powell, *Delta*], \$31,000 and (R/V Seward Johnson Sea-Link), \$52,000
- 1989 NOAA (National Undersea Research Program [UCAP- R/V Seaward Explorer], \$11,100 for research \$50,000 for vessel and \$52,000 [R/V Seward Johnson *Sea-Link*])
- 1989 NOAA/ Sea Grant \$78,067 Lobster ecology
- 1989 Maine Aquaculture Innovation Center. Lobster Enhancement. \$3000
- 1989 NOAA (National Undersea Research Program [UCAP- R/V Seaward Explorer], \$3,500 for research \$50,000 for vessel
- 1989 University of Maine, Center For Marine Studies. \$20,000 for lobster research using the *R/V Argo Maine*.
- 1990 NOAA/ Sea Grant \$79,990 Lobster ecology
- 1990 Maine Aquaculture Innovation Center. Lobster Enhancement. \$10,000
- 1990 NOAA (National Undersea Research Program [UCAP- R/V Seaward Explorer], \$3,500 for research \$50,000 for vessel
- 1991 NOAA/ Sea Grant \$74,942 Lobster ecology

- 1991 NOAA (National Undersea Research Program [UCAP- R/V Seaward Explorer], \$15,980 for research \$47,980 for vessel/NITROX mixed gas SCUBA
- 1991 Chilean government's Fundacion Andes , three months (\$8700)
- 1991 Maine Aquaculture Innovation Center. Lobster Enhancement. \$5,000
- 1991 NSF \$151,284. Stromatolites as Holocene Reef-builders: Modern version of an ancient role.
- 1992 South African Government: Foundation for Research Development and University of Cape Town. two months. Plant-Herbivore Coexistence: the South African Limpet-Coralline Interaction. R10,468 = \$3,800.
- 1993 NOAA (National Undersea Research Program [UCAP-R/V *Sea diver*, Clelia submersible]), Ecology of Reproductive Phase lobsters \$14,880.
- 1993 Univ. of Maine. Bird and Bird grant for undergraduate instruction. \$2,000.
- 1993 Maine's Lobster Advisory Council. A pilot study to develop pre-recruit census techniques to monitor and forecast lobster stocks. \$13,000.
- 1993 Univ. of Maine Sea Grant Development Grant and the Lobster Institute. Is the availability of critical habitat for lobsters thermally controlled? \$5,000
- 1994 NOAA (National Undersea Research Program [UCAP-R/V *Sea diver*, Clelia submersible]), Ecology of deep water American lobsters: body size distribution, abundance and habitat utilization and processes of settlement and recruitment. \$49,086
- 1994 NOAA (National Undersea Research Program [NR-1] Deep water American lobsters (*Homarus americanus*) of Georges Bank and the continental shelf: patterns of body size, distribution, abundance and habitat utilization. \$22,484.
- 1994 Univ. of Maine. Bird and Bird grant for undergraduate instruction. \$2,000.
- 1994 Univ. of Maine Sea Grant Development Grant and the Lobster Institute. Testing settlement collectors for the American lobster \$5,000
- 1994 Maine's Lobster Advisory Council. A pilot study to develop pre-recruit census techniques to monitor and forecast lobster stocks. \$14,000.
- 1994 Smithsonian Institution Visiting Investigator Award to conduct research on the taxonomy and systematics of Caribbean encrusting coralline algae and examine geological cores taken from a Bahamian stromatolite reef system. \$2000.
- 1994 Lobster Researcher of the Year. Second International Lobster Congress, Portland, Maine.**
- 1995 NOAA (Sea Grant) Developing indices necessary for predicting commercial catches of the American lobster, *Homarus americanus*. (with Cobb, Fogarty, Howell, Wahle and Watson). \$666,598 (three years).
- 1995 Maine's Lobster Advisory Council. A study to develop pre-recruit census techniques to monitor and forecast lobster stocks. \$17,780.00
- 1995 Distinguished for contribution to science as a Fellow of the American Association for the Advancement of Science in honor of research: "contributions to the ancient and contemporary processes that influence marine communities".**
- 1996 Maine's Department of Marine Resources. Research necessary to develop a management plan for the green sea urchin, *Strongylocentrotus droebachiensis* in the territorial waters of Maine: Early life history and population survey techniques. (with R. Vadas, and B. Beal). \$89,610.

- 1996 Maine's Lobster Advisory Council. A study to develop pre-recruit census techniques to monitor and forecast lobster stocks. \$18,222.
- 1996 Research paper Steneck and Dethier 1994 was highlighted in *Science* in a special issue on *Frontiers in Biology: Ecology*.**
- 1996 NOAA (Sea Grant) Marine Advisory Program. (With Wilson & Acheson) Infusing science and information into comanagement: fishing industry - university - management liaisons: Urchin industry \$15,000
- 1996 Kendall Foundation. (With Wilson & Acheson) Infusing science and information into comanagement: fishing industry - university - management liaisons: Lobster Industry \$30,000 (two years)
- 1997 NOAA (National Undersea Research Program). Identifying The effective broodstock for Coastal Populations of the American lobster, (*Homarus americanus*): Patterns of Distribution, Abundance and Body Size in Near-Shore Deep-Water Habitats \$30,600 (1 yr.).
- 1997 Maine's Department of Marine Resources. Research necessary to develop a management plan for the green sea urchin, *Strongylocentrotus droebachiensis* in the territorial waters of Maine: Early life history and population survey techniques. \$65,000
- 1997 Maine's Lobster Advisory Council. Lobstermen and stock assessment: developing an efficient and calibrated voluntary logbook and sea sampling protocol for the State of Maine. \$17,270
- 1997 Island Institute. Lobster resources in Penobscot Bay, ME. Phase I. Quantifying Patterns of distribution, abundance and life-history phases of lobsters relative to the oceanographic and geological characteristics of Penobscot Bay. \$15,000.
- 1998 Pew Fellowship in Marine Conservation. One of 10 individuals selected from 70 nominees world-wide.** (3 year fellowship for \$150,000)
- 1998 Maine's Lobster Advisory Council. Lobstermen and stock assessment: developing an efficient and calibrated voluntary logbook and sea sampling protocol for the State of Maine. \$19,200
- 1998 Island Institute. Lobster dynamics surrounding Penobscot Bay: Linking lobster nursery grounds with Broodstock Populations. \$40,509.
- 1998 NOAA (Sea Grant) No-harvest Conservation Areas for Sea Urchins in Maine: Exploring New Tools for Sustaining the Fishery. \$36,349/ yr 3 yrs
- 1998 Kendall Foundation. Infusing science and information into comanagement: fishing industry - university - management liaisons: Lobster Industry \$70,000 (two years)
- 1998 Battelle. Benthic juvenile lobsters in Boston Harbor. \$18,167.
- 1999 Maine Outdoor Heritage Fund. Penobscot Bay Lobster Project \$47,092
- 1999 Sea Urchin Zone Council. Sea Urchin No-fish Conservation Areas in Maine: \$178,418 (two years)
- 1999 NOAA: National Undersea Research Program. Broodstock Lobsters. \$48,923.
- 1999 Atlantic and Gulf Reef Assessment Program. Univ. of Miami. Assessing reefs of Yucatan coast of Mexico. \$2,500
- 2000 Sea Urchin Zone Council. Reseeding the green sea urchin in depleted habitats: \$95,205
- 2000 NOAA (Sea Grant) Development proposal. Pilot study of subsurface lobster larvae, \$5,000

- 2000 Kendall Foundation: Infusing science and information into comanagement: field expenses, \$5,000
- 2000 Maine Science and Technology Fund: Multi-level plankton sampler. \$37,000
- 2000 - **Appointed to an international Scientific Advisory Committee for the National Center for Caribbean Coral Reef Research**
- 2001 Australian Research Council. Biodiversity of coral reefs. (with T. P. Hughes, D. R. Bellwood, S. R. Connolly, A. Baird, C. Chen, R. Karlson, S. Palumbi, and P. Wainright). \$2,100,000 (Australian) over 5 years (2002 - 2006).
- 2001 Maine Department of Marine Resources. Juvenile lobster prediction study. \$9,000.
- 2001 Maine Department of Marine Resources. Marine Protected Areas for sea urchins.\$99,146 (two years)
- 2001 NOAA National Undersea Research Program. Determination of Essential Reproductive Habitat for the American Lobster: Connectivity between broodstock and nursery grounds (with L. Incze, C. Wilson, and E. Annis). \$49,772.
- 2002 Pew Fellows Collaborative studies (with T. McClanahan). \$8,000
- 2002 NOAA National Undersea Research Program, Caribbean Marine Research Center. Trophic Cascades and the Role of Coralline Algae in Coral Recruitment. \$70,000 (two years)
- 2002 Maine Department of Marine Resources. Monitoring newly settled lobsters. \$10,000.
- 2002 NOAA Coral Reef Conservation Grant. Coral Recruitment \$43,775
- 2002 **Nominated for the Provasoli Award (Best paper in phycology) for: 2001** Adey, W. H. and Steneck, R. S. Thermogeography over time creates biogeographic regions: a temperature/space/time - integrated model and an abundance-weighted test for benthic marine algae. *J. Phycol.* 37: 677 - 698.
- 2002 NOAA Coastal Ocean Program. Lobster connectivity modeling. (L. Incze PI). U. Maine award: \$348,737. (2 mo over two years)
- 2003 Pew Fellows Collaborative studies (with T. McClanahan) to Establish Marine Protected Areas in Bonaire \$10,680/year for three years.
- 2004 Pew Fellows Supplemental \$8,000
- 2004 NOAA National Undersea Research Program, Caribbean Marine Research Center. Trophic Cascades and the Role of Coralline Algae in Coral Recruitment. \$8,000 (two years)
- 2004 Proposal to Maine Technology Institute. A collaborative grant with FMC (Marine Colloids) Corporation to develop a sustainable seaweed harvest. \$25,000
- 2005 Pew Fellows Collaborative studies to establish Marine Protected Areas in Bonaire \$10,000
- 2005-08 World Bank GEF Project to study connectivity of corals in Caribbean Reefs. \$25,000/yr
- 2005 Wildlife Conservation Society grant to study coral recruitment in Belize \$8,000/yr
- 2006 Wildlife Conservation Society grant to study coral recruitment in Belize \$4,000/yr
- 2007 Wildlife Conservation Society grant to study coral recruitment in Belize \$6,000/yr
- 2005 – 06 Smithsonian Institution grant for Tropical Research to study inducer to coral settlement at Carrie Bow Cay Belize. \$2,500/yr
- 2006 National Fish and Wildlife Foundation Grant “Linking Herbivory to Reef Resilience” \$49,891

FIELD EXPERIENCE

- 1960 - Present SCUBA Diver, (NAUI, PADI Advanced); NOAA-trained Aquanaut for saturation diving; team leader on NITROX mixed gas diving, logged more than 2000 dives including decompression, mixed gas and saturation diving, maximum depth 220'
- 1971 Wyoming: Historical geology, paleontology, angiosperm taxonomy.
- 1972 St. Croix: Phycology, marine ecology, carbonate geology
- 1973 - 1974 Caribbean (St., Croix, Antigua, Martinique, St. Martin, St. Thomas, St. John, Tortola, St. Eustatius, Guadeloupe): Phycology, marine ecology, carbonate geology, coralline systematics, herbivore studies, 1st mate, 41' R/V "Corallina"
- 1975 - 1977 Gulf of Maine: Phycology, ecology, environmental impact studies of thermal pollution, quantitative subtidal ecology, multivariate analysis
- 1977 - 1988 Caribbean (St. Croix, St. Thomas, Tortola, Virgin Gorda): Reef ecology, productivity, herbivory and community structure
- 1978 Australia (Heron Island, One Tree Island, Lizard Island, Palm Isles): Coralline systematics and ecology of the Great Barrier Reef
- 1978, 1982, 1987 Jamaica (Discovery Bay): Plant/herbivore interactions in shallow reef environments
- 1979 - 1989 Maine: Subtidal studies of algal communities, herbivory and lobster ecology. Captain of 35' "R/V Stickney".
- 1980 Bahamas (North Eleuthra): Comparative studies of reef ecology and herbivory
- 1979 - 1986 Washington state: Marine Ecology, Coralline Taxonomy and Systematics, Plant/herbivore interactions, outer coast (Tatoosh Island) and protected coast (San Juan Islands)
- 1982 Newfoundland: Biogeographic comparison of algal and herbivore communities
- 1982 St. Croix: Aquanaut (Principal Investigator and Team Leader) in NOAA Hydrolab. Saturation diving and living underwater for seven days studying herbivory and algal ecology
- 1982 Alaska (Torch Bay): Intertidal studies of coralline systematics, plant/herbivore interactions and patterns of community structure
- 1983 Colorado: Initial survey of late Paleozoic (Pennsylvanian) algal reefs.
- 1984 - 1991 Gulf of Maine: Project Coordinator and Chief Scientist in NOAA's National Undersea Research Program for submarine research. Used the *Johnson Sea-Link* and *Mermaid II* submarines and *Recon IV* (remotely operated vehicle) to the benthic ecology of the Gulf of Maine. To date Chief Scientist for 14 submersible cruises.
- 1985 St. Croix: Aquanaut (Team Leader) in NOAA Hydrolab. Saturation diving and living underwater for seven days studying transport and decomposition of macroalgae
- 1988 St. Croix: Aquanaut (Team Leader and PI) in NOAA/NURP *Aquarius*. Saturation diving and living 60' underwater for 10 days studying algal productivity and herbivory on reefs.
- 1989 - 1991 Gulf of Maine: Project Director and Chief Scientist in NOAA's National Undersea Research Program for mixed gas (NITROX) scuba research cruises. Six NITROX scuba diving research cruises.
- 1989 Gulf of Maine. Chief Scientist on a 10 day cruise in to quantify distribution and abundance of American lobsters using *in situ* techniques.

- 1990, 1994 Georges Bank: Chief Scientist on 5 day cruise in the U.S. Navy's *NR-1* a 141' nuclear research submarine to quantify distribution and abundance of reproductive American lobsters at 200 m depth.
- 1991 Chile: Research at various sites from Coquimbo to Punta Arenas (approximately 2000 miles of coast) on plant herbivore interactions and decapod ecology.
- 1992 South Africa: diving and conducting intertidal research at numerous locations around Cape of Good Hope, Cape Town, to Yzerfontein on west coast, and Tsitsikama on east coast.
- 1992, 1993 Great Exuma, Bahamas: (Chief Scientist and Co-Principal Investigator) in NSF research cruise on *R/V Calanus* to study living intertidal stromatolites.
- 1993 - 1995 Georges Bank. Chief Scientist on 8 and 10 day submersible cruise aboard *R/V Sea Diver* and *R/V Edwin Link* and the submersible *Clelia* to quantify distribution, abundance and habitat utilization of deep water lobsters.
- 1984 - Present: Director of Summer Internship for Marine Ecological Research. At the University of Maine's marine laboratory (Darling Marine Center), Five to 15 undergraduate students each year assist in marine research projects involving SCUBA diving and underwater research techniques.
- 1995 - 1999 Central American reefs: Coral reef rapid assessment. Bahamas, Florida Keys, Honduras, Yucatan Peninsula Mexico, Belize.
- 1997 Brazil: Studies of herbivory, community structure and coralline algae at Abrolhos archipelago and coastal sites south of Rio de Janeiro.
- 1997 Chief Scientist on an 8 day submersible cruise aboard *R/V Edwin Link* and the submersible *Johnson Sea-Link* to quantify distribution, abundance and habitat utilization of deep water reproductive phase lobsters living in coastal zones of Nova Scotia and Maine.
- 1999 Hawaii: Fisheries studies on spiny lobster *Panulirus marginatus* and slipper lobster *Scyllarides squammosus*.
- 1999 Chief Scientist, 7 day lobster research cruise in Penobscot Bay aboard *R/V Argo Maine*.
- 1999 Chief Scientist, 10 day remotely operated vehicle cruise aboard *R/V Connecticut* to identify and locate essential broodstock habitats for the American Lobster.
- 2000 Cozumel Mexico: Confirmed the existence of the western-most algal ridge in the Caribbean
- 2000 - 2001 Lead several research projects on the geology and ecology of coral reefs of the Indo-Pacific (Great Barrier Reef, Papua New Guinea, Indonesia, Guam and Palau).
- 2001 Chief Scientist, 10 day remotely operated vehicle cruise aboard *R/V Connecticut* to identify and locate essential broodstock habitats for the American Lobster.
- 2002 Coral recruitment studies in Mexico, Belize, Bahamas, Bonaire, Navassa and the Virgin Islands

Graduate Students

| <u>Name</u> | <u>UM Degree</u> | <u>Year</u> | <u>Subsequent degree</u> | <u>Current occupation</u> |
|---------------|------------------|-------------|--------------------------|----------------------------------|
| Sally Hacker | MS | 1990 | (PhD. Brown) | Professor Washington St. Univ. |
| Richard Wahle | PhD | 1990 | | PI Scientist, Bigelow Laboratory |

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|----------------------|--------------|------|--|---|
| Kirt Moody | MS | 1991 | (PhD. VIMS) | Professor Mt. Holyoke |
| Paul Bologna | MS | 1991 | (PhD U. S. Alabama) | Professor Montclair State University |
| Wendy Malpass | MS | 1992 | | Scientist, The Nature Conservancy |
| Tim Miller | MS | 1994 | | Lab Manager, Darling Marine Center |
| Patrick Voorhees | MS | 1995 | | Medical Doctor, Baltimore, MD |
| Alvaro Palma | PhD | 1998 | | Professor, Universidad Católica de la Sma. Concepción |
| Carl Wilson | MS | 1998 | | Maine's Dept. of Marine Resources |
| Douglas McNaught | PhD | 1999 | | Professor, U. Maine, Machias |
| Amanda Leland | MS | 2003 | | Ocean Policy Director, Environmental Defense |
| John Vavrinec | PhD | 2003 | Research Scientist, Normandeau, Seattle Wa | |
| Shauna Slingsby | MS | 2003 | (NOAA Coral Reefs), Washington D. C. | |
| Eric Annis | PhD | 2004 | Univ. Maryland Res. Prof. | |
| Lindsay Harrington | Ph.D | 2004 | (James Cook Univ. Australia) | Lecturer James Cook University |
| Jeanne Brown | MS | 2006 | | NY Sea Grant Program |
| Kristin Wilson | MS | 2006 | PhD Candidate, U. Maine | |
| Curt Brown | MS | 2007 | | |
| Elizabeth Stephenson | MS | 2007 | | Maine State Planning Office |
| Susie Arnold | MS | 2007 | PhD Candidate, U. Maine | |
| Martha Ratner | MS candidate | | | |
| Erin Spenser | MS candidate | | | |

ABSTRACTS AND REPORTS:

- 1977 Steneck, R. S. Factors influencing the distribution of crustose coralline algae (Rhodophyta, Corallinaceae) in the Damariscotta River Estuary, Maine. Proc. 16th Northeast Algal Symposium. Woods Hole, Ma.
- 1977 Steneck, R. S. Crustose coralline-limpet interaction in the Gulf of Maine. J. Phycol. 13: 65.
- 1977 Steneck, R. S., R. A. Lutz and R. M. Cerrato. Age and morphometric variation in subtidal populations of mussels. Proc. 69th National Shellfish Association Symposium. Baltimore, MD
- 1977 Adey, W. H. and R. S. Steneck. An objective approach to benthic phytogeography. J. Phycol. 13: 3 .
- 1978 Steneck, R. S. Factors influencing the distribution of crustose coralline algae (Rhodophyta, Corallinaceae) in the Damariscotta River, Maine. Masters Thesis Univ. of Maine.
- 1981 Steneck, R. S. and B. Milliken. The branching morphology of crustose corallines as a structural defense against herbivores and a refuge for filamentous algae. Proc. 20th Northeast Algal Symposium, Woods Hole, MA .
- 1981 Steneck, R. S. Herbivore mediated competition between crustose corallines in the Gulf of Maine. Proc. 20th Northeast Algal Symposium, Woods Hole, MA .

- 1981 Townsend, R. T., W. A. Adey and R. S. Steneck. Non-articulated coralline algae of the Pacific region. *Aust. Mar. Sci. Bull.* 75.
- 1981 Adey, W.H., C. S. Rogers, R. S. Steneck, and N. Salesky. The south St. Croix reef: a study of reef metabolism as related to environmental factors and an assessment of environmental management. Dept. of Conservation and Cultural Affairs. Gov. of the U. S. Virgin Islands. 97 pp.
- 1982 Steneck, R. S. Adaptive trends in the ecology and evolution of crustose coralline algae (Rhodophyta, Corallinaceae). Ph. D. Dissertation. Johns Hopkins Univ. 253 pp.
- 1987 Steneck, R. S. Reconstructing paleoalgal communities from a modern process-based model. *Geol. Soc. Amer. Bull.* 19 (2):
- 1987 Steneck, R. S. and R. L. Vadas. Macroalgal extinction depths reconsidered: an experimental approach National Undersea Research Program Undersea Science Symposium, Groton Cn. .
- 1987 Vadas, R. L. and R. S. Steneck. Zonation of Deep Water Benthic Algae in the Gulf of Maine. National Undersea Research Program Undersea Science Symposium, Groton Cn.
- 1987 Steneck, R. S. and R. L. Vadas and S. Fain. Discovery of a new deep water species of kelp in the central Gulf of Maine. National Undersea Research Program Undersea Science Symposium, Groton Cn. .
- 1988 Davison, I. R., J. E. Kuebler, R. L. Vadas and R. S. Steneck. Comparative photosynthetic physiology of shallow and deep water populations of *Laminaria* in the Gulf of Maine. NOAA Symp. Series for Undersea Res. 6(1) 1988.
- 1988 Steneck, R. S. Interpreting crustose algal epibionts on Paleozoic Fossils. *Geol. Soc. Amer. Bull.* 20 (2): .
- 1988 Shumway, S. E., D. J. Crisp and R. S. Steneck. Specific dynamic action and food preferences in periwinkles. *Proc. 23rd meeting of English Mar. Biol. Soc. London.* .
- 1988 Steneck, R. S. Benthic ecology of hard substrata: session summary. NOAA Symp. Series for Undersea Research 6(1): 3-6.
- 1988 Vadas, R. L. and R. S. Steneck. Deep water benthic algal zonation. NOAA Symp. Series for Undersea Research 6(1): 27-44.
- 1988 Steneck, R. S., C. A. Pfister and M. N. Dethier. Clonal Strategies in Algal Crusts: The Secret of Success in Crustose Corallines. American Association for the Advancement of Science, Annual Meeting, Boston Ma.
- 1988 Hacker, S. D. and R. S. Steneck. Size scaling and habitat selection for the phytal amphipod, *Gammarellus angulosus*. Benthic Ecology Meetings, Portland Me.
- 1988 Moody, K. E. and R. S. Steneck. Mechanisms of predation on *Mytilus edulis* by large decapods. Benthic Ecology Meetings, Portland Me.
- 1988 Wahle, R. A. and R. S. Steneck. Recruitment, substratum selection and the impact of predators on early benthic phase American lobsters, *Homarus americanus*. Benthic Ecology Meetings, Portland Me.
- 1989 Steneck, R. S. The ecological ontogeny of lobsters: in situ studies with demographic implications. In (Kornfield, I. ed) *Proc. Lobster Life History Workshop, Orono, Me.* 1:30 - 33.

- 1990 Dethier, M. N. and R. S. Steneck. Convergent adaptive patterns among encrusting marine algae: interactions between morphology and the environment. Western Society of Naturalists. Symposium on Marine Herbivory. Monterey Ca.
- 1991 Braga, J. C., D. Bosenice, and R. S. Steneck. A re-evaluation of the microstructure and affinities of some Cenozoic coralline algal genera. Proc. 5th Intern. Symposium on Fossil Algae. Capri, Spain.
- 1991 Steneck, R. S. The demographic consequences of intraspecific competition among lobsters (*Homarus americanus*). The Benthic Ecology Meetings, Williamsburg, Va.
- 1991 Hacker, S. and R. S. Steneck. Importance of macroalgae as habitat for small, mobile crustaceans: is this association analogous to terrestrial plant/insect associations? Northeast Algal Symposium, Woods Hole, Ma.
- 1991 Steneck, R. S., R. A. Wahle, L. S. Incze, and D. F. Belknap. Patterns of distribution and abundance of lobsters in the Gulf of Maine: ideas on the carrying capacity of their environment. The National Shellfish Association Meetings, Portland, Me. .
- 1991 Steneck, R. S. The demographic consequences of intraspecific competition among lobsters (*Homarus americanus*). The National Shellfish Association Meetings, Portland, Me. .
- 1991 Steneck, R. S. Plant-herbivore coevolution: a reappraisal from the marine realm and its fossil record. Archivos de Biología y Medicina experimentales. 24: 96.
- 1991 Steneck, R. S. Ontogenetic niche shifts: a marine example using the American lobster, *Homarus americanus*. Proc. IV Congreso Latinoamericano de Ciencias del mar, Coquimbo Chile. 56-57
- 1993 Steneck, R. S. and G. M. Branch. Algal-herbivore coexistence in Africa: a mega-limpet and its coralline prey. Northeast Algal Symposium, Woods Hole, Ma.
- 1993 Steneck, R. S., T. E. Miller, R. P. Reid, I. G. Macintyre. Ecological factors controlling the distribution and abundance of intertidal stromatolites, Stocking Island, Bahamas. Geol. Soc. of Amer. 25 (6): 6824 abstr.
- 1993 Reid, R. P., R. S. Steneck, I. G. Macintyre, H W. .Paerl, T. E. Miller, K. M. Browne, A. Palma, J. Pickney, B. Bebout, L. Prufert, M. Lutz. Stromatolite distribution and morphology, Exuma Cays, Bahamas. Geol. Soc. of Amer. 25 (6):
1993. Macintyre, I. G. Reid, R. P. Steneck, R. S. Holocene growth history of a stromatolite/algal ridge reef complex, Stocking Island, Bahamas. Geol. Soc. of Amer. 25 (6):
- 1994 Steneck, R. S. and A. Palma. Design constraints on the ecology and evolution of decapods. Benthic Ecology Meetings. Univ. of Connecticut.
- 1994 Williams, A. B., I. Kornfield, and R. Steneck, NMFS, NMNH, Wash. DC, Dept. Biol. & Darling Marine Ctr., Univ. Maine. Generic reassignment of *Homarus capensis*., Annual Meeting of The Crustacean Society, July 1994, Walpole, Maine
1994. Steneck, R. S. Habitat and other limitations to the carrying capacity for lobsters in the Gulf of Maine. American Fisheries Society Annual Meeting, 8/94 Halifax, Canada
- 1994 Macintyre, I. G., R. P. Reid, R. S. Steneck. Growth history of a modern algal ridge/stromatolite fringing reef, Stocking Island, Bahamas. Plenary Lecture. Proceedings of International Society for Reef Studies. Symposium: Coral Reefs in the past, present and future. Luxembourg. September 1994.

- 1994 Reid, R. P., I. G. Macintyre and R. Steneck. Stromatolite reefs of the Exuma Island archipelago: Its distribution and geological history. October 1994, Las Vegas, Nevada
- 1994 Steneck, R. S. A framework for protecting regionally significant habitats: environmental science considerations. Proceedings National Research Council Symposium: *Improving the Interaction between Environmental Management and Coastal Ocean Sciences*. November 2 -4 1994, Kennebunkport, Me.
- 1994 Steneck, R. S., D. McNaught and S. Zimsen. Spatial and temporal patterns in sea urchin populations, herbivory and algal community structure in the Gulf of Maine. Proceedings for the Sea Urchin Workshop. September 27-28 1994.
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