

WILLIAM SEAMAN, JR.

Professor Emeritus, University of Florida

seaman@ufl.edu

CONTENTS

I. Synopsis ...	1
II. Achievements ...	1
III. Education & Academic Awards ...	4
IV. Employment & Appointments ...	4
V. Principal Professional Experiences ...	5
VI. Invited Presentations, Since 2000 ...	11
VII. Publications ...	12

I. SYNOPSIS—PASSIONS, SKILLS, IMPACTS:

My passions are seeing science not only advance but also be understood and applied by society, seeing human faces beam with new awareness of how nature functions, and working collegially to establish and further efforts that contribute to sustaining natural resources while enlightening humankind.

Long view: From beginning studies in the freshwaters of the northeastern United States, my **research** led to development and synthesis of technical information and **extension/outreach** concerning marine ecosystems in about 20 countries. As a founding member of the University of Florida Department of Fisheries and Aquatic Sciences I have **taught** undergraduates and **advised** graduate students, and **published** over 90 items regarding coastal and ocean habitats, fishes and ecosystems. **Sabbatical** appointments in Hawaii and Monaco led to production of two books and chairing conferences concerning human-made reefs. **Service** includes adult education and leading efforts in professional societies. **Administratively**, as associate director of the Florida Sea Grant College Program I held one of the most complex and responsible such positions nationwide. Duties included **scientific leadership** for development of themes including biotechnology, aquaculture, and coastal fisheries and habitats, as well as extensive **peer review** and communication across numerous disciplines to evaluate coastal research performance statewide. The annual budget approached \$ 5 million; the program was recognized as one of the top five Sea Grant programs in the United States.

In recent years: I have worked as an independent, consulting environmental scientist. My portfolio includes scholarship in fisheries/habitats, with broadening involvement in education and stewardship policy and practices concerning natural resources. Efforts, since 2009, include advising the Government of Monaco on ocean habitat conservation, leading a technical review team on watershed restoration for the South Florida Water Management District, co-editing a best practices guidebook for deployment of artificial habitats in coral ecosystems of southern Florida, writing a newspaper science column, and chairing a committee of the American Fisheries Society. Recent publications are “Encyclopedia of Ocean Sciences: Artificial Reefs” (2019), and “Assessment of French Artificial Reefs: Due to Limitations of Research, Trends May Be Misleading” (2015), cited below.

II. ACHIEVEMENTS:

□ **ADVANCING SCIENCE IN ITS CONTENT, VISION AND SCOPE**

- Over 90 publications, including three books, on life sciences, natural resources, and aquatic ecosystems, with emphasis on coastal fishes and habitats.
- Book, “*Artificial Reef Evaluation*,” used worldwide (second printing); sole source of information on ecosystem monitoring in State of Florida requirements for evaluation of county artificial reefs (1/2 of U.S. total).

- Since 2000, invited keynote speaker at ten international conferences on aquatic ecosystems, fisheries and habitats, and organizer of one session at World Fisheries Congress.
- Founder of Florida Marine Biotechnology Summit series, only U.S. forum of its kind, for exchange among state and national scientists. Invited part of BioFlorida 2004 annual conference (combined attendance 430).
- Technical guidance to leaders of academic and governmental research programs in 15 nations at European Commission conference on priorities for scientific investigation of artificial reefs (1996).
- Chaired Third International Conference on Artificial Reefs (1987), served on steering committees for two others (1991, 1999), and organized North American symposium on artificial reef science (1995).
- President, Florida Chapter of the American Fisheries Society, and chairman of “*Florida Fishery Resources and Aquatic Habitats*” symposium/annual meeting (1984), editor of subsequent book, organizer of governmental briefings; received national Outstanding Chapter Award from American Fisheries Society.
- Elected Fellow, American Institute of Fishery Research Biologists.
- Certified Fisheries Scientist, American Fisheries Society. (Recertified December 2015.)

□ ENHANCING STRATEGIC PLANNING FOR ECOSYSTEM PROGRAMS

- Government of Monaco: Artificial Reef Planning and Installation Project, Science Advisor (2010-2012, and 2018).
- Interagency Southeast Florida Coral Reef Initiative: Co-investigator, co-editor and contributing author, “*Best Management Practices for Artificial Reef Siting, Usage, Construction and Anchoring in Southeast Florida, with Emphasis on Coral Ecosystems*” (2009-2010).
- South Florida Water Management District: Leader of Peer Review Panel on scientific merit of the restoration plan/report “*Water Reservation Rule for the North Fork of the St. Lucie River*” (2009).
- “*Urbanization on the Sea*” project, Government of Monaco (2008-2010): Member, Reference Group of Experts, leader of Working Group 3, underwater habitat/building design.
- Provided government agencies of Canada, Korea, Guatemala and Monaco technical information to plan artificial habitat for fisheries and ecosystem management during invited visits. (Lesser on-site assistance in England, Italy, Japan, Northern Ireland, Russia.)
- Invited lecturer, facilitator, planner for “*Design and Management of Artificial Reefs for Fisheries Management*” short course (2007) of the International Centre for Advanced Mediterranean Agronomic Studies.
- Invited advisor to Florida Fish and Wildlife Conservation Commission hearing on proposals for location of aircraft carrier at competing sites as world’s largest artificial reef.
- Leader of Florida Cooperative Extension Service “*Design Team for Coastal Habitat & Water Quality*,” leading to establishment of first Extension Specialist for Estuaries faculty position in Florida.
- Organized first statewide inter-university and agency workshop on marine invasive species in Florida coastal waters (2001), leading to Extension Service adoption of issue, publications and conference.
- Co-founder of Florida Bay Science Conference series, ongoing, as forum for hundreds of scientists, managers, and students from organizations nationwide.

□ COLLEGIAL LEADERSHIP AND SERVICE TO STRENGTHEN EDUCATION AND ITS PARTNERS

- Founding member of Department of Fisheries and Aquatic Sciences, University of Florida (1984), and creator of first Fishery Science course.
- Contributed marine information into strands of science instruction as member of Florida State Committee on Environmental Education (1997-2000) and Florida Department of Education state team for environmental education (1997).
- Developed teacher and student materials for Florida Global Change Education project (sponsor: U.S. Department of Agriculture) as member of biodiversity advisory committee, Florida Department of Education; trainer in National Science Foundation global change project for teachers.
- Founding member of the board of directors, BioFlorida.
- Certified Environmental Educator, State of North Carolina (2015-2020)

- Trained managers and coordinators of artificial reef programs in the state agencies of Atlantic and Gulf coasts (50, nearly all), and also in Florida coastal counties (1/2), in application of consistent, rigorous and quantitative methods to evaluate reef performance.
- Montreat College (North Carolina), Adult Learning course organizer, lecturer, *“Earth: Too Big to Fail?”* © (2010).
- Strengthened principal North American volunteer dive organizations that monitor ocean reefs (2002 workshop for 10 major organizations, with Canada Department of Fisheries and Oceans).
- Established statewide “virtual department” of 77 faculty in Florida engaged in marine biotechnology research, education, service and development.
- Recipient of Founder’s Award from League of Environmental Educators of Florida (1996).

□ **RIGOROUS PLANNING, GRANTMAKING AND EVALUATION OF RESEARCH PERFORMANCE**

- Member, National Science Foundation review panels for biotechnology (2002, 2003).
- University of Florida: Florida Sea Grant Technical Review Panel (2009).
- University of Florida: Tropical and Sub-tropical Agricultural Research Review Panel (2010).
- Development of Florida Sea Grant long-range planning elements via mail, internet and personal participation of public and private stakeholders representing aquaculture, estuarine ecosystems, and biotechnology, including: assessment of research on marine biotechnology (24 projects) and artificial reefs (12 projects), and organization of ad hoc advisory committee for marine invasive species, ornamentals aquaculture industry-leader advisory committee, and industry/faculty roundtable on marine biotechnology research and education.
- Assured technical merit in Florida Sea Grant research program through biennial reading preliminary (75-85 per cycle) and full (35) proposals, organizing out-of-state expert review panels for preliminary and full proposals, identifying 150-200 peer reviewers per cycle, and monitoring 20 projects annually.
- Recommendations led to streamlined and enhanced Florida Sea Grant program management through on-line faculty submittal of research proposals, online external proposal review, replacement of paper research project reports with electronic versions, and design of tabular format for analysis of fund balances for management accounts. Created proposal format and peer review process, which was adopted by other entities.
- The NOAA Program Assessment review (“reaccreditation”) in 2000 designated Florida Sea Grant as “Excellent,” both overall and for all four major review criteria, a rank accorded to only four other (of 30 total) Sea Grant programs in the United States.

□ **EFFECTIVE AND TIMELY TECHNICAL COMMUNICATIONS FOR LIFE SCIENCES AND NATURAL RESOURCES POLICY AND DECISIONS**

- National Faith and Environment Conference: *“God’s Earth: Too Big to Fail? A Conversation among Faith, Science and Culture,”* Presbyterians for Earth Care, member of planning committee, budget sub-committee. (2011).
- American Fisheries Society: Publications Awards Committee, chairman (2009-2014).
- Organizer of first-ever *“National Marine Biotechnology Briefings,”* November 2005, Washington, D.C., attended by 10% of staff of Congressional offices.
- Testified concerning legislation to strengthen marine biotechnology research, training and development introduced in Florida House of Representatives and Senate in 2000 and 2001.
- Organized for BioFlorida annual conferences marine biotechnology workshop (1998; 20 industry leaders) and session (2000; 60 attendees); planning committee for marine biotechnology panel at 1998 national conference of BIO (Biotechnology Industry Organization) for 75 investors and executives.
- Invited editor, *“Fisheries”* magazine special issue (1997) on artificial reefs ecological function in the sea, and research priorities; readership 10,000 worldwide.
- Award of Distinction for magazine, *“The Promise of Marine Biotechnology in Florida”* (junior author), from Florida Public Relations Society (2005).
- 2003 Sustainable Florida Award presented to Florida Sea Grant by Council for a Sustainable Florida and Governor and Cabinet of Florida, for educational achievement.
- Leadership & Service Award, Montreat Landcare Committee (North Carolina), 2018.

III. EDUCATION AND ACADEMIC AWARDS:

Cornell University	1962-1966	Bachelor of Science
University of Florida	1966-1968	Master of Science
University of Florida	1968-1972	Doctor of Philosophy

1962-1966: New York State Regents Scholarship
1965: Dean's List, Cornell University
1966-1969: National Defense Education Act Title IV Fellowship
1969-1970: University of Florida College of Arts & Sciences Fellowship

IV. EMPLOYMENT AND APPOINTMENTS:

2008-present	Professor Emeritus, Fisheries and Aquatic Sciences, University of Florida; Distinguished Service Award, 2014
2008-present	Independent Environmental Scientist
2007	Chief Science Officer, Florida Sea Grant, University of Florida (part-time, consulting)
1996-2006	Professor, Department of Fisheries and Aquatic Sciences, University of Florida
1982-2006	Associate Director, Florida Sea Grant College Program, University of Florida
1998	Acting Director, Florida Sea Grant College Program, University of Florida (six months)
1993	Visiting Scientist and Scholar-in-Residence, Institut Océanographique, Monaco
1983-1996	Associate Professor, Department of Fisheries and Aquatic Sciences, University of Florida
1985	Visiting Research Scientist, Hawaii Institute of Marine Biology, University of Hawaii
1977-1985	Affiliate Faculty, 4-H and Other Youth Programs, University of Florida
1975-1983	Assistant Professor, Fisheries, School of Forest Resources and Conservation, University of Florida
1972-1982	Assistant Director, Florida Sea Grant, University of Florida
1971-1972	Graduate Research Associate, Center for Aquatic Sciences, University of Florida
1970-1971	Graduate Research Assistant, Florida Museum of Natural History, University of Florida
1969-1970	Teaching Assistant (volunteer), Department of Zoology, University of Florida
Summer 1966	Biologist, Ichthyological Associates, New York and Pennsylvania
Summer 1965	Research Assistant, Hallowing Point Field Station, Chesapeake Biological Laboratory, Maryland

V. PRINCIPAL PROFESSIONAL EXPERIENCES:

Research, Education, Outreach and Service

- 2019 *Feasibility of Establishing a Stream Watch Program*, Science advisor, Montreat Landcare Committee.
- 2018 *Urbanisation of the Sea Project*, Invited Expert, Speaker and Participant, Principality of Monaco, March-May.
- 2015 Certified Environmental Educator, North Carolina Office of Environmental Education
- 2015-2020 *Earth Care Congregations: National Presbyterian Initiative Takes Root in Carolina*, Seaman, W., J. Laping and K. Holmes, North American Association for Environmental Education 40th Annual Conference, Raleigh, North Carolina.
- 2010-2012 Artificial Reef Programme for the Ocean of Monaco. Scientific consultant. Government of Monaco, Department of Environment.
- 2010-2011 Tropical & Sub-Tropical Agricultural Research Program, University of Florida. Proposal peer review panel.
- 2010 *Earth: Too Big to Fail?* ©, Course organizer and leader, Montreat College Continuing Adult Learning Program.
- 2010 *Florida Artificial Reef Summit*, Florida Fish & Wildlife Conservation Commission. Session moderator, present closing remarks. (January 20-23.)
- 2009-2010 *Best Management Practices for Artificial Reef Siting, Usage, Construction and Anchoring in Southeast Florida*. Co-Principal Investigator, Southeast Florida Coral Reef Initiative.
- 2009-2010 *Urbanisation on the Sea*, Government of Monaco. Member of Reference Group of Experts, and Leader of Working Group 3, Underwater Building.
- 2009 South Florida Water Management District, Leader of Technical Review Panel to Support Development of a Water Reservation for the Indian River Lagoon South.
- 2009 Florida Sea Grant College Program. Member of research proposal review panel.
- 2009-2014 American Fisheries Society, chairman Annual Publications Awards Committee
- 2007 *Pacific Rim Summit on Industrial Biotechnology and Bioprocessing*. Member of planning committee and review of abstracts. (Not attending.)
- 2006-2007 *Design and Management of Artificial Reefs for Fisheries*, short course of the International Centre for Advanced Mediterranean Agronomic Studies (May 7-11, 2007). Lecturer and member of organizing committee.
- 2006 U. S. State Department briefing organizer and presenter, *Treasures from the Sea: A Briefing on Marine Biotechnology*. Washington, D.C. (May 16)

- 2006 *Florida Marine Biotechnology Summit V*. Organizer, convener of steering committee. (Held as invited part of BioFlorida annual conference.)
- 2005 *National Marine Biotechnology Briefings*. Organizer and presenter. U. S. Capitol, Biotechnology Industry Organization, and NOAA Sea Grant Office, Washington, D.C. (November 8-10)
- 1997-2002, & 2003-2006 BioFlorida, Board of Directors. Founding member.
- 2005 *World Congress on Industrial Biotechnology and Bioprocessing*. Session organizer for *Advances in Marine Biotechnology* session.
- 2004 *Florida Marine Biotechnology Summit IV*. Organizer, convener of steering committee.
- 2004 World Fisheries Congress, *Achieving the Reconciliation of Fisheries with Conservation through Habitat Improvement in Marine Ecosystems*, Session organizer and opening paper. (Vancouver, Canada.)
- 2002 *Research and Monitoring of Marine Reefs Using Volunteer Divers, A North American Workshop*, Co-organizer and moderator, lead editor of proceedings. (Sidney, Canada.)
- 2002 *Florida Marine Biotechnology Summit III*, Member of organizing committee.
- 2002 Second International Symposium on GIS/Spatial Analyses in Fishery and Aquatic Systems. Member of organizing committee. (Brighton, England.)
- 2001 Florida Artificial Reef Summit. *Artificial Reef Evaluation: Making the Most of Your Monitoring and Assessment Dollars*. Workshop organizer.
- 2001 *Artificial Reef Evaluation: Criteria and Methods for Documenting Performance in Southern Seas*. Continuing Education Workshop of the Southern Division of the American Fisheries Society. Organizer and chairman.
- 2001-2006 National Marine Biotechnology Theme Team, Sea Grant Association and National Sea Grant Office. Member.
- 2000 *Florida Marine Biotechnology Summit II*. Organizer.
- 1999 *Seventh International Conference on Artificial Reefs and Related Aquatic Habitats*. Keynote presentation. Also, member of steering committee and organizer of technical session on reef evaluation. (Sanremo, Italy.)
- 1998 *Estuary Processes, Problems, Issues and Solutions for Extension Agents*, In-service training workshop. Coordinator.
- 1998 *Solutions from the Sea: The Health and Future of Marine Biotechnology Research, Development, Training and Business Opportunities in Florida*. Workshop, BIOFlorida annual meeting. Chairman and organizer.
- 1997-present Commission on Ecosystem Management, IUCN/World Conservation Union. Member.
- 1997-1998 Florida Committee to Advance Marine Biotechnology Research and Education,

- Coordinator.
- 1997 *Florida Marine Biotechnology Roundtable* (April 1997). Organizer.
- 1996 *First European Artificial Reef Research Network Conference*. Keynote speaker. (Ancona, Italy.)
- 1995-1998 Florida Global Change Education Initiative, sponsored by U.S. Department of Agriculture Global Change Office. Member of project team.
- 1995 & 1996 *Florida Bay Science Conferences* (two), steering committee member.
- 1995 *International Conference on Ecological System Enhancement Technology for Aquatic Environments*, Tokyo, Japan (November 1995). Steering committee.
- 1995 American Fisheries Society national annual meeting. Arrangements Committee -- Professional Field Trips Coordinator; Symposium--*Future Artificial Reefs in the U.S. Coastal Ocean: Can Science Resolve the Biological Enhancement Question?* Symposium of the American Fisheries Society, organizer.
- 1994 Florida Department of Education delegation to White House U.S. Global Change Education Conference and follow-up National Science Foundation project. Member.
- 1994 Florida Department of Environmental Protection Ecosystem Management Program, Environmental Education Committee
- 1994 National Academy of Science, *Workshop on Improving Interactions Between Policy and Coastal Science in the Gulf of Mexico*, U.S. EPA planning committee
- 1992-1994 Instructional staff, Global Environmental Education summer program, Gulf Coast Research Laboratory
- 1992 *Role of Artificial Habitats in Fisheries Development*, workshop at *World Fisheries Congress*, Athens, Greece. Organizer, chairman, rapporteur
- 1992 Advisor to Instituto Guatemalteco de Turismo, Guatemala
- 1991-1992 Advisory Committee Metro-Dade Department of Environmental Regulation and Management, Sunny Isles Restoration Project, Miami, Florida. Member
- 1991 *Japan-U.S. Symposium on Artificial Habitats for Fisheries*, Tokyo. Organizing committee
- 1991 *Fifth International Conference on Artificial Habitats for Fisheries*, U.S.A. Organizing committee, chairman of International Coordinators
- 1987 *Fourth International Conference on Artificial Habitats for Fisheries*, U.S.A. Chairman and organizer
- 1987 Florida Artificial Reef Summit, Planning committee
- 1986-1989 Florida Council on Comprehensive Environmental Education. Member (representative of State University System of Florida)
- 1987 Epcot Living Seas - Sea Grant Educational Program and Materials Committee

- 1986-1990 American Fisheries Society, *This is AFS* Slide Show Revision Committee, American Fisheries Society, Chairman
- 1986-1990 Marine and Estuarine Resources Committee, Southern Division, American Fisheries Society
- 1986-1988 Urban Fishing Subcommittee, Fisheries Management Section, American Fisheries Society
- 1986-1988 Atmospheric and Oceanographic Section, Florida Academy of Sciences. Chairman
- 1986-1987 Membership Committee, Southern Division, American Fisheries Society
- 1986 Advisor to University of California, San Diego, regarding National Sea Grant recertification
- 1986 *Tomorrow's Waterfront in Florida*, Workshop at State Association of County Commissioners of Florida annual meeting. Chairman and organizer
- 1986 Advisory Committee, Mississippi-Alabama Sea Grant, northern Gulf of Mexico reef siting project
- 1984-1986 Associate Editor, *North American Journal of Fisheries Management*
- 1984-1986 Board of Directors, Florida Marine Information Network, Inc.
- 1984-1985 Executive Committee, Florida Chapter of the American Fisheries Society
- 1984 Area editor for national fisheries issues, Council of Sea Grant Directors
- 1983-1984 President, Florida Chapter of the American Fisheries Society (President-elect 1982-1983)
- 1983 *Florida Aquatic Habitat and Fishery Resources*, Symposium of the Florida Chapter of the American Fisheries Society. Chairman, organizer.
- 1982-1992 Chairman, Reef Science Advisory Committee, Florida Sea Grant
- 1981-1984 Estuarine Research Task Force, Council of Sea Grant Directors
- 1981-1992 Interagency Advisory Committee for Coastal Management, Florida Department of Environmental Regulation
- 1981 Lecturer in Oceanography, *S.S. Norway*
- 1980-1990 Florida Boating Council, Florida Department of Natural Resources
- 1978-1979 Planning Committee, Sea Grant Association National Annual Conference
- 1977-1979 Participant in reef fish management plan draft for Gulf of Mexico Fishery Management Council

- 1976-1977 Sea Grant Association, Secretary
- 1972 Red Flag Charette of Pinellas County, Florida. Special Consultant
- 1972 Florida American Institute of Architects-Florida Defenders of the Environment
Red Flag Charette. Ecologist
- 1971 Florida American Institute of Architects-Florida Defenders of the Environment
Oklawaha River Charette. Ecologist
- 1969 Co-founder, Environmental Action Group, Gainesville, Florida. President, 1969-
1979
- 1969 The Institute for the Study of Health and Society *Conference on the
Environment and the Developing Professional*. Invited participant.

Professional Development Leaves (Sabbaticals)

- 1993 One semester. Headquarters at Institut Océanographique, Monaco. Extensive
travel in and through 18 countries to study marine biodiversity and habitat
restoration practices and environmental education. Presented seminars on
artificial reef research, assisted development of European reef network, advised on reef
research. Invited to co-author one article and assist conference
development. Visits included UNESCO, European Community and World
Conservation Union.
- 1985 One semester. Hawaii Institute of Marine Biology, University of Hawaii.
Research on artificial reefs, extensive literature review. Foundation for large-scale
experiments planned for Florida. Invited to chair 1987 international conference.

University Committees (Selected)

- 2003-2006 National Rankings Committee, Department of Fisheries and Aquatic Sciences,
Chairman
- 2000-2001 Seminar Committee, Department of Fisheries and Aquatic Sciences, Chairman
- 2000 Search and Screen Committee for Assistant Dean for Extension (Aquatic
Programs), Chairman
- 1997-2000 Campus Land Use and Facilities Planning Committee
- 1997-2001 Design Team Leader, Coastal Water Quality Extension Program
- 1990-1992 Faculty Steering Committee, Center for Environmental Education
- 1986-1988 Lakes and Vegetation Committee
- 1984-1987 Traffic Hearing Authority
- 1984 Search Committee for Chairman, Department of Fisheries and Aquaculture

- 1984 Marine Education Center Dedication Program Committee
- 1984 Chairman, Florida 4-H Marine Science Statewide Congress judging team
- 1983-1985 Secretary, Union Board of Managers
- 1982-1985 Board of Managers, J. Wayne Reitz Union

Selected Extramural Sponsored Projects and Grants at University of Florida (until 2005)

- 2003-2004 Principal Investigator, California Artificial Reef Enhancement Program, “World Fisheries Congress” session (\$ 5,000)
- 2003-2004 Principal Investigator, Florida Chapter of the American Fisheries Society, “World Fisheries Congress” session (\$ 500)
- 2000-2001 Principal Investigator, “Coastal Environmental and Water Quality Education and Outreach Materials,” USDA Water Quality Program (\$12,000)
- 1996-2000 Principal Investigator, “Reef Habitat Book (Artificial Reef Evaluation),” Phillips Petroleum Corporation (\$10,000)
- 1998-1999 Principal Investigator, “Seventh International Conference on Artificial Reefs and Related Aquatic Habitats,” Phillips Petroleum Company (\$25,000)
- 1998 Associate Investigator, “Non-regulatory Boating Management to Achieve Sustainable Waterway Use,” National Oceanic and Atmospheric (\$50,000)
- 1996-1998 Co-Principal Investigator, “Broadening and Sustaining Global Change Education in Florida,” U.S. Department of Agriculture (\$30,000)
- 1996 Principal Investigator, “Connecting Science and the Public in Florida Bay,” Florida Department of Environmental Protection (\$25,000)
- 1995-1996 Co-Principal Investigator, “Planning Florida’s Global Change Education Initiative,” National Science Foundation (\$10,000)
- 1995 Principal Investigator, “Future Artificial Reefs in the U.S. Coastal Ocean: Can Science Resolve the Biological Enhancement Question?” Atlantic States Marine Fisheries Commission (\$2,000)
- 1992-1994 Principal Investigator, “Global Environmental Education: Biodiversity and Quantitative Literacy,” Sub-project for Gulf Coast Research Laboratory National Science Foundation project (\$12,000)
- 1992-1993 Principal Investigator, “Florida’s Estuaries: A Citizen’s Guide to Coastal Living and Conservation,” Florida Department of Community Affairs (\$25,000)
- 1991-1992 Principal Investigator, “Environmental and Fishery Performance of Florida Artificial Reef Habitats,” Florida Department of Natural Resources (\$365,000)
- 1990-1991 Associate Investigator, “Fundamental Design Parameters for Artificial Reefs: The Interaction of Patch Reef Spacing and Size,” Florida Department of Natural

	Resources (\$120,000)
1989-1990	Principal Investigator, "Enhancement of Artificial Reef Database for Florida," Sport Fishing Institute and U.S. National Marine Fisheries Service (\$42,000)
1988-1990	Co-principal Investigator, "Variation of Reef Dispersion to Manage Targeted Fishery Assemblages," Sea Grant (\$90,000)
1987	Principal Investigator, "Fourth International Conference on Artificial Habitats for Fisheries," 23 sponsors (ca. \$50,000 direct funding plus substantial matching funds)
1986	Principal Investigator, "Significance of Retired Petroleum Platforms as Marine Fish Habitats," Tenneco Corporation (\$25,000)
1972-2006	Associate Investigator, "Florida Sea Grant College Management," U.S. Department of Commerce (latest annual award was \$ 257,000; aggregate since inception >>\$2 million)

VI. INVITED SCIENTIFIC PRESENTATIONS, SINCE 2000:

International

- Seaman, W. 2018. "*Artificial Reef Design and Development Resources for Monaco.*" Urbanisation of the Sea Project, Principality of Monaco, 22 May 2018.
- Seaman, W., R. Grove (presenter), D. Whitmarsh, M. Santos, G. Fabi, C. Kim, G. Relini and T. Pitcher. "*Artificial Reefs as Unifying and Energizing Factors in Future Research and Management of Fisheries and Ecosystems.*" International Conference on Artificial Aquatic habitats, Curitiba, Brazil. November 2009. (Keynote.)
- Seaman, W. "*Artificial Reefs in Environmental Improvement, Restoration and Creation.*" World Fisheries Congress, Session 6, sub-session 6-5, Yokohama, Japan. October 20-24, 2008.
- Seaman, W. "*Concepts and Overview of Planning Artificial Reefs,*" and "*Matching Habitat Structure and Function to Resource Management Purposes.*" Design and Management of Artificial Reefs for Fisheries, short course of Insitituto Agronomico Mediterraneo de Zaragoza. Zaragoza, Spain. 7-11 May 2007.
- Seaman, W. "*Artificial Habitats and the Restoration of Degraded Systems.*" 39th European Marine Biology Symposium. Genoa, Italy. 21-24 July 2004. (Keynote.)
- Seaman, W. and M.W. Miller. "*Fisheries Conservation and Habitat Improvement in Marine Ecosystems.*" World Fisheries Congress, Session on marine fisheries restoration. Vancouver, Canada. 2-6 May 2004. (Session keynote.)
- Seaman, W. "*Artificial Reefs: Concepts and World Status.*" Brazilian Artificial Reefs Plan Workshop. Rio de Janeiro, Brazil. 13-15 November 2003. (Declined due to schedule conflict.)
- Seaman, W. "*Human-made Reefs in Ocean Fisheries and Ecosystems: Using Suspicion and Science to Define Their Roles.*" University of British Columbia Fisheries Centre. Vancouver, Canada. 18 January 2002.

- Bortone, S. and W. Seaman. "*Technology for the Creation of Aquatic Habitats and Their Evaluation in Fisheries Ecosystems.*" Japanese Society of Fisheries Science, International Commemorative Symposium, 70th Anniversary. Yokohama, Japan. 3 October 2001. (Session keynote.)
- Seaman, W. "*Evaluating Artificial Reefs for Economic, Engineering and Ecological Performance.*" National Workshop on Artificial Reefs Assessment and Research Agenda. Canada Department of Fisheries and Oceans. St. Catherines, Ontario. 19-20 March 2001. (Workshop keynote.)
- Seaman, W. "*Evaluating Human-made Reefs for Economic, Engineering and Ecological Performance.*" International Symposium on Marine Ranching Toward 21st Century. Ministry of Marine Affairs and Fisheries, Republic of Korea. Seoul, Korea. 20-26 November 2000. (Symposium keynote.)
- Seaman, W. "*The Sea Grant University--Advancement of Marine Fisheries and Habitat Science.*" National Fisheries Research and Development Institute. Pusan, Korea. 17 November 2000.

National

- Cato, J. and W. Seaman. "*Planning, Partnerships and Progress in Marine Biotechnology Research and Outreach in Florida.*" National Academy of Sciences Workshop on Marine Biotechnology. Washington, D.C. 5-6 November 2000.
- Seaman, W. "*So Much Ocean, So Many Questions, So Little Time.*" Artificial Reef Conference: Converting Unused Ships and Structures to Enhance Ocean Environments. San Diego Oceans Foundation. San Diego, California. 12-15 July 2000. (Luncheon keynote.)

State

- Seaman, W. Closing remarks. Florida Artificial Reef Summit, Clearwater, 20??
- Seaman, W. Closing remarks. Florida Artificial Reef Summit, Cocoa Beach. January 21-23, 2010
- Seaman, W. "*Science and Technology of Artificial Reefs in the World's Ocean.*" Florida Artificial Reef Summit. Florida Fish and Wildlife Commission. Sarasota, Florida. 27-28 April 2004.
- Seaman, W. "*International Reef Technology and Research Trends.*" Florida Artificial Reef Summit '01. Florida Fish and Wildlife Conservation Commission, Ft. Lauderdale. 17-20 October 2001.
- Seaman, W. "*Science Serving Florida's Coast: Using the Sea Grant Information Storehouse in Education and Outreach.*" League of Environmental Educators in Florida, annual conference. 23 March 2001.

VII. PUBLICATIONS:

Publications relating to: the biology of aquatic organisms, especially fishes; management of natural resources; and environmental education/awareness, include books, refereed scientific journal articles and book chapters, technical publications, monographs, articles in proceedings, extension bulletins, staff papers and fact sheets, one multi-media program, one poster and journal/magazine collections

Books

Seaman, W., Jr., editor. 2000. Artificial reef evaluation -- with application to natural marine habitats. CRC Press, Boca Raton. xi + 246 pp. (Second printing in 2002.)

Seaman, W., Jr., and L.M. Sprague, editors. 1991. Artificial habitats for marine and freshwater fisheries. Academic Press, San Diego. xviii + 285 pp.

Seaman, W., Jr., editor. 1985. Florida aquatic habitat and fishery resources. Florida Chapter of the American Fisheries Society. Kissimmee, Florida. 542 pp.

Journal Edition

American Fisheries Society. 1997. Special issue on artificial reef management. Fisheries 22(4): 4-34. (Collection of eight articles derived from national symposium organized by W. Seaman.)

Refereed Articles and Book Chapters

Seaman William. 2019. Artificial Reefs. In: Cochran, J. Kirk; Bokuniewicz, J. Henry; Yager, L. Patricia (eds.) Encyclopedia of Ocean Sciences, 3rd Edition, vol.[1], pp. 662-670. Oxford: Elsevier.

Tessier, A., P. Francour, E. Charbonnel, N. Dalias, P. Bodilis, W. Seaman and P. Lenfant. 2015. Assessment of French artificial reefs: due to limitations of research, trends may be misleading. Hydrobiologia 753:1–29.

Seaman, W. 2012. Ocean: Deep Wonder, Deep Sorrow, Deep Hope. 12 pp. In: P. D. Heery, editor. Hope for eco-activists: Discovering an environmental faith. Unbound—An Interactive Journal of Christian Social Witness. Presbyterian Church (USA), Louisville, Kentucky. Online at <http://justiceunbound.org/journal/current-issue/hope-for-eco-activists-discovering-an-environmental-faith>.

Seaman, W., R. Grove, D. Whitmarsh, M. Santos, G. Fabi, C. Kim, G. Relini and T. Pitcher. 2011. Artificial reefs as unifying and energizing factors in future research and management of fisheries and ecosystems. In: S. Bortone et al. (eds.) Artificial Reefs in Fisheries Management. CRC Press, London.

Seaman, W. 2008. Coastal artificial habitats for fishery and environmental management and scientific advancement. Pp. 335-349 In: K. Tsukamoto et al. (eds.) Fisheries for Global Welfare and Environment. TERRAPUB, Tokyo.

Seaman, W., and M. Miller. 2008. Fishery conservation and habitat improvement in marine ecosystems. Pp. 881-889 In: J. Nielsen et al. (eds.) Reconciling Fisheries with Conservation. American Fisheries Society Symposium 49.

Seaman, W. 2008. Reconciling fisheries with conservation through marine habitat improvement. Pp. 879-880 In: J. Nielsen et al. (eds.) Reconciling Fisheries with Conservation. American Fisheries Society Symposium 49.

Kim, C.G., H.S. Kim, C. Baik, H. Kakimoto and W. Seaman. 2008. Design of artificial reefs and

- their effectiveness in the fisheries of Eastern Asia. Pp. 933-942 In: J. Nielsen et al. (eds.) *Reconciling Fisheries with Conservation*. American Fisheries Society Symposium 49.
- Seaman, W., and W. J. Lindberg. 2008. Artificial Reefs. Pp. 226-233 In: J. H. Steele et al. (eds.) *Encyclopedia of Ocean Sciences* (second edition). Elsevier.
- Seaman, W. 2007. Artificial habitats and the restoration of degraded marine ecosystems and fisheries. *Hydrobiologia* 580: 143-155.
- Seaman, W. 2004. Florida coastal county artificial reef program habitat assessment practices. Florida Sea Grant Extension Bulletin SGEB-58.
- Seaman, W. 2002. Unifying trends and opportunities in global artificial reef research, including evaluation. *ICES Journal of Marine Science* 59: S14-S16.
- Pitcher, T.J., and W. Seaman, Jr. 2000. Petrarch's Principle: how protected human-made reefs can help the reconstruction of fisheries and marine ecosystems. *Fish and Fisheries* 1: 73-81.
- Seaman, W., Jr., and A.C. Jensen. 2000. Purposes and practices of artificial reef evaluation Pp. 1-19 in: W. Seaman, Jr., ed. *Artificial reef evaluation*. CRC Press, Boca Raton.
- Allemand, D., E. Debernardi and W. Seaman. 2000. Artificial reefs in the Principality of Monaco: protection and enhancement of coastal zones. Pp. 151-166 in: A.C. Jensen, K.J. Collins and A.P.M. Lockwood, eds. *Artificial reefs in European seas*. Kluwer Academic Publishers, London.
- Seaman, W. 1997. Frontiers that increase unity: defining an agenda for European artificial reef research. Pp. 241-260 in: A.C. Jensen, ed. *European Artificial Reef Research*, Southampton Oceanography Centre, Southampton.
- Seaman, W. 1997. Does the level of design influence success of an artificial reef? Pp. 359-376 in: A.C. Jensen, ed. *European Artificial Reef Research*, Southampton Oceanography Centre, Southampton.
- Seaman, W., Jr. 1997. What if everyone thought about reefs? *Fisheries* 22(4): 4-5.
- Grossman, G.D., G.P. Jones and W. Seaman, Jr. 1997. Do artificial reefs increase regional fish production? A review of existing data. *Fisheries* 22(4): 17-23.
- Seaman, W., Jr. 1995. Artificial habitats for fish. Pp. 93-104. in: *Encyclopedia of Environmental Biology*. Academic Press, San Diego.
- Halusky, J.G., W. Seaman, Jr., and E. Strawbridge. 1994. Effectiveness of trained volunteer divers in scientific documentation of artificial aquatic habitats. *Bulletin of Marine Science*.
- Seaman, W., Jr., and L.M. Sprague. 1991. Artificial habitat practices in aquatic systems. Pp. 1-29 in: W. Seaman, Jr. and L.M. Sprague, eds. *Artificial habitats for marine and freshwater fisheries*. Academic Press, San Diego.
- Stone, R.B., J.M. McGurrin, L.M. Sprague and W. Seaman, Jr. 1991. Artificial habitats of the world: synopsis and major trends. Pp. 31-60 in: W. Seaman, Jr. and L.M. Sprague, eds. *Artificial habitats for marine and freshwater fisheries*. Academic Press, San Diego.
- Seaman, W., Jr., W.J. Lindberg, C.R. Gilbert and T.K. Frazer. 1989. Fish habitat provided by obsolete petroleum platforms off southern Florida. *Bulletin of Marine Science* 44(2): 1014-1002.

- Seaman, W., Jr., R.M. Buckley and J.J. Polovina. 1989. Advances in knowledge and priorities for research, technology and management related to artificial aquatic habitats. *Bulletin of Marine Science*. 44(2): 527-532.
- Johnson, D.R., and W. Seaman, Jr. 1986. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (South Florida) -- spotted seatrout. U.S. Fish and Wildl. Serv. Biol. Rep. 82(11.43). U.S. Army Corps of Eng., TR EL-82-4. 18 pp.
- Comp, G., and W. Seaman, Jr. 1985. Estuarine habitat and fishery resources of Florida. Pp. 337-435 *in*: W. Seaman, Jr., ed. Florida aquatic habitat and fishery resources. Florida Chap. American Fish. Soc., Kissimmee.
- Seaman, W., Jr., and D.Y. Aska. 1985. The Florida reef network: Strategies to enhance user benefits. Pp. 545-561 *in*: F. D'Itri, ed. Artificial reefs: Marine and freshwater applications. Lewis Publishers, Chelsea, Michigan.
- Seaman, W., Jr., H.H. Mathews, D.Y. Aska and D.E. Sweat. 1984. Urban fishing in the Southeast: A case history from coastal Florida. *in*: L.J. Allen, ed. Urban fishing. American Fisheries Society, Bethesda, Maryland.
- Seaman, W., Jr., and M. Collins. 1983. Species profiles: life histories and environmental requirements of coastal fishes and invertebrates (South Florida) -- snook. U.S. Fish Wildl. Serv. FWS/OBS-82/11.16. U.S. Army Corps of Engineers, TR EL-82-4. 16 pp.
- Seaman, W., Jr. 1982. Enhancement of Florida marine fisheries using artificial reefs: A review. *Proc. Southeastern Assoc. Fish Wildl. Agencies*. pp. 312-322.
- Seaman, W., Jr., and C.R. Gilbert. *in press*. Systematics and osteology of the carangid fish *Hemicaranx*. *Florida Museum Nat. Hist. Bull.*
- Technical Documents and Articles (Including Non-reviewed Conference Proceedings)**
- Havens, K., G. Lytton and W. Seaman. 2012. Florida's Estuaries: A Practical Guide to Estuary-Friendly Living. SGEB-64. Florida Sea Grant College Program.
- Seaman, W. and P. Francour. 2012. Proposed Design and Siting Specifications for Structures in the Artificial Reefs Programme of Monaco. A Report to the Department of Environment, Principality of Monaco.
- Seaman, W. and P. Francour. 2011. Establishment of artificial reefs in the ocean of Monaco: Report of progress to begin the programme. Department of Environment, Principality of Monaco. 17 pp.
- Lindberg, W.J. and W. Seaman (editors). 2010. Guidelines and Management Practices for Artificial Reef Siting, Usage, Construction and Anchoring in Southeast Florida. Florida Department of Environmental Protection. Miami, FL. xi and 148 pages.
- Schrope, M. and W. Seaman. 2004. The promise of marine biotechnology in Florida. Florida Sea Grant Technical Paper 132.
- Seaman, W. 2003. International reef technology and research trends. Pp. 38-43 *in*: Proceedings of Florida Artificial Reef Summit '01, Florida Fish and Wildlife Conservation Commission, Tallahassee.

- Seaman, W., B. Smiley and T. Pitcher, eds. 2003. Research and monitoring of marine reefs using volunteer divers – Proceedings of the North American Practitioners Workshop. University of British Columbia Fisheries Centre.
- Cato, J.C. and W. Seaman, Jr. 2002. Planning, partnerships and progress via marine biotechnology research and outreach in Florida. Pp. 97-99 *in*: National Research Council. Marine Biotechnology in the Twenty-First Century. National Academy Press, Washington, D.C.
- Bortone, S.A. and W. Seaman. 2001. Technology for the creation of aquatic habitats and their evaluation in fisheries ecosystems. Pp. 1677-1682 *in*: Japanese Society of Fisheries Science, International Commemorative Symposium Proceedings. Yokohama, Japan.
- Seaman, W., Jr., and J.H. Whitehouse. 2001. Florida marine biotechnology: Research, development and training capabilities to advance science and commerce. Florida Sea Grant Technical Paper 110.
- Seaman, W., Jr. and J.C. Cato. 2001. Economic and scientific development of Florida's marine ornamental aquarium species sector. Pp. 65-68 *in*: Proceedings of Marine Ornamentals '99 Conference. Univ. Hawaii Sea Grant UNIH-SEAGRANT-CP-00-04.
- Seaman, W. 2000. Evaluating human-made reefs for economic, engineering and ecological performance. Pp. i-xiv in Soon Kil Yi, ed. Proceedings of the International Symposium on Marine Ranching Toward 21st Century, Ministry of Marine Affairs and Fisheries, Republic of Korea, Seoul.
- Seaman, W. and C. Adams. 1998. Florida marine aquaculture research and extension issues, including the Florida Sea Grant long-range plan. FSG Technical Paper 95.
- Seaman, W., Jr., editor and senior author. 1992. Environmental and Fishery Performance of Florida Artificial Reef Habitats: Guidelines for Technical Evaluation of Sites Developed with State Construction Assistance. Project Report to the Florida Department of Natural Resources, Tallahassee, Florida. xiv + 271 pp.
- Lindberg, W.J., and W. Seaman, Jr. 1991. Design of habitat size and spacing, with special reference to ecological factors. Pp. 189-193 *in*: M. Nakamura R.S. Grove and C.J. Sonu, editors. Proc. JAPAN-U.S. Symposium on Artificial Habitats for Fisheries, Tokyo, June 11-13, 1991.
- Seaman, W., Jr., W. J. Lindberg and C.R. Gilbert. 1989. Early fish assemblages on Tenneco II Reef, South Florida. Pp. 127-130 *in*: V.C. Reggio, Jr., ed. Petroleum structures as artificial reefs: a compendium. U.S. Minerals Management Service. OSC Study/MMS 89-0026.
- Kleppel, G.S., and W. Seaman, Jr., editors. 1989. Fishery recruitment in Florida waters: Toward a predictive capability. Florida Sea Grant Technical Paper No. 57.
- Pybas, D., and W. Seaman, Jr. 1988. Artificial reefs in Florida. Pp. 8-12 *in*: S. Andree, ed. Florida Artificial Reef Summit. Florida Sea Grant Report No. 93.
- Seaman, W., Jr. 1988. Global and national status of artificial reefs Pp. 5-7 *in*: S. Andree, ed. Florida Artificial Reef Summit. Florida Sea Grant Report No. 93.
- Seaman, W., Jr. 1987. Translating science for coastal decision making. Coastal Zone '87, American Society of Civil Engineers. Pp. 222-236.
- Seaman, W., Jr. 1987. Connections between coastal growth and fishery habitat issues in Northeast

- Florida and Georgia. Pp. 299-304 in: C.L. DeMort and A.Q. White, eds. Proc. Fish Habitat Symposium: Growth Impacts on Coastal N.E. Florida and Georgia. Florida Sea Grant College Program Rep. No. 81.
- Reddy, D.P., and W. Seaman, Jr. 1985. Enhanced public coastal information through a statewide databank network in Florida: feasibility and pilot study. Florida Sea Grant Tech. Pap. No. 41. 53 pp. Report to Florida Department of Environmental Regulation, Tallahassee.
- Seaman, W., Jr. 1985. Florida fishery resources. Underwater Naturalist, Bull. American Littoral Soc. 15(4):27-30.
- Seaman, W., Jr. 1984. Enhanced fishing opportunities for urban waterfronts. Urban Waterfront Management Project Resource Report, No. 5, pp. 13-20. Florida Dept. Community Affairs.
- Seaman, W., Jr. and D.Y. Aska. 1984. Training, graduate degrees and employment patterns of students associated with research projects 1971-1982. Florida Sea Grant Tech. Pap. 31. 22 pp.
- Seaman, W., Jr., and R. McLean, editors. 1977. Freshwater and the Florida coast: Southwest Florida. Florida Sea Grant Rep. 22. Gainesville, Florida. 244 pp.
- Seaman, W., Jr., editor. 1976. Sharks and man, a perspective. Florida Sea Grant Program Rep. 10. Gainesville, Florida. 40 pp.
- Seaman, W., Jr. and A.C. Jones, editors. 1975. Review of Florida spiny lobster research. Florida Sea Grant Prog. Tech. Pap. 54 pp.
- Seaman, W., Jr., and D.Y. Aska, editors. 1974. Research and information needs of the Florida spiny lobster fishery. Florida Sea Grant Rep. 1. Gainesville, Florida. 64 pp.
- Seaman, W., Jr. 1973. Ecological impact of excavation and proposed restoration of a section of the Weeki Wachee River, Florida. Coastal Engineering Associates. 5 pp.
- Seaman, W., Jr., C.A. Adams and S.C. Snedaker. 1973. The role of mangrove ecosystems: biomass determinations in shallow estuaries--technique evaluation and preliminary data. National Tech. Info. Serv. PB-231-748.
- Gilbert, C.R., and W. Seaman, Jr. 1973. The effect of stream gradient on the distribution of fishes in the Tennessee River system of Tennessee and North Carolina. ASB Bull. 20(2):55. (abstr.)
- Adams, C.A., M.J. Oesterling, S.C. Snedaker and W. Seaman, Jr. 1973. Quantitative dietary analyses for selected dominant fishes of the Ten thousand Islands, Florida. Pp. H1-56. in: Snedaker, S.C. and A.E. Lugo. The role of mangrove ecosystems in the maintenance of environmental quality and a high productivity of desirable fisheries. Final Rep. U.S. Bur. Sport Fish. Wild. Contract No. 14-16-008-606.
- Seaman, W., Jr. 1972. Systematics of the genera *Hemicaranx* and *Atule* (Pisces: Carangidae), with an analysis of the classification of the family. Doctoral Dissertation.
- Seaman, W., Jr. 1968. Distribution and variation of the American cyprinid fish, *Notropis hudsonius* (Clinton). Master's Thesis.

Multi-media (Non-print)

Seaman, W., Jr. Editor. 1984. Florida aquatic habitat and fishery resources. Florida Chap. American Fish. Soc. (80-slide, 16 minute, 50 second tape narration.)

Miscellaneous Articles, Reports and Shorter Extension Publications

Seaman, W. 2014. Native plants: Essential to a healthy landscape. Montreat Landcare Committee Fact Sheet 1.

Seaman, W. 2014. Invasive plants: Threats to your landscape. Montreat Landcare Committee Fact Sheet 2

Kearl, S., R. Scott and W. Seaman. 2002. Biotechnology's new wave in Florida. Florida Sea Grant Fact Sheet SGEF-149.

Seaman, W. 2001. Florida biotechnology looks toward the sea: Beginnings of a statewide multiuniversity marine biotechnology consortium. Florida Sea Grant College Program miscellaneous paper. 4 pp.

Seaman, W. 2000c. Florida marine biotechnology research and development program: Promoting commerce and job growth in Florida. Florida Sea Grant College Program miscellaneous paper. 1p.

Seaman, W. and A. Hoover. 2001. Artificial reefs: the Florida Sea Grant connection. Florida Sea Grant College Program Fact Sheet SGEP-14.

Seaman, W., and J. Whitehouse. 2000. Florida Sea Grant -- A resource for marine educators. Florida Sea Grant Extension Fact Sheet SGEF-12. (Also on homepage.)

Seaman, W. 1998. Coastal Environmental and Water Quality, A description of Extension Design Team FL316. Florida Sea Grant Fact Sheet 86.

Seaman, W., Jr., and N.G. Diersing. 1997. The science of Florida Bay -- an educator's guide to the video news release series. Florida Sea Grant Extension Bulletin No. SGEB-36.

Franz, S., J. Humphreys and B. Seaman. 1993. Florida's estuaries: Citizen's guide to coastal living and conservation. Florida Sea Grant Extension Bulletin No. 23.

Halusky, J.G., G.A. Antonini and W. Seaman, Jr. Artificial reef evaluation capabilities of Florida counties. Florida Sea Grant Tech. Paper No. TP-69.

Seaman, W., Jr. 1989. Welcome to Florida...and its environment. Florida Council on Comprehensive Environmental Education. (Brochure)

Seaman, W., Jr. 1989. Student guide to marine degree programs in Florida universities. Florida Sea Grant Fact Sheet, SGEF-9. 14 pp.

Seaman, W., Jr. and L. Welch. 1988. Report, Fourth International Conference on Artificial Habitats for Fisheries. Florida Sea Grant College Program. (8-page newsletter.)

Florida Council on Comprehensive Environmental Education. 1987. Comprehensive plan for environmental education. Valencia Comm. Coll., Orlando. (Contributor.)

Florida Council on Comprehensive Environmental Education. 1987. Status report on environmental education. Valencia Comm. Coll., Orlando. (Contributor.)

Seaman, W., Jr. 1986. Helping to build your artificial reef. Florida Sea Grant Extension Fact Sheet SGEF-4.

- Seaman, W., Jr. 1986. Florida fishery resources. Marine Log, Florida Sea Grant newsletter. Pp. 1-2.
- Seaman, W., Jr. 1985. Florida Sea Grant student research assistants: profile of performance and career development. (8-panel flyer.)
- Anonymous. 1985. Sea Grant: a capability for fisheries research. National Sea Grant Task Force, and National Association of State Universities and Land-Grant Colleges. 3 pp.
- Seaman, W., Jr. 1983. Florida Sea Grant project information for student assistants. Florida Sea Grant College Program. (Brochure.) (Revised 1985.)
- Seaman, W., Jr. 1983. The graduate--a most important product (pp. 1 & 6); and What does a Sea Grant student "do"? (p. 3) in Marine Log, Florida Sea Grant College Program. (Newsletter.)
- Seaman, W., Jr. 1982. Marine education. Marine Log, Florida Sea Grant newsletter. Pp. 1, 3, 6.
- Seaman, W., Jr. 1980. The Florida Sea Grant Program - support for maritime heritage projects. Pp. 56-58 in: B. Purdy, ed. Florida maritime heritage. Florida St. Mus.
- Seaman, W., Jr. 1976. Sharks and man, a perspective. Answers to the most frequently asked questions about sharks. Florida Sea Grant Program. (Brochure.)
- Seaman, W., Jr. Technical Editor. 1976. A report on the Sea Grant Program. St. Univ. Sys. Florida. For January 1 - December 31, 1975. 45 pp.
- Seaman, W., Jr., Technical Editor. 1974. A report on the Sea Grant Program. St. Univ. Sys. Florida. For January 1 - December 31, 1973. 24 pp.
- Seaman, W., Jr., Contributor in: Reaves, D. 1973. Development of regional impact, planning concepts and zoning requests. MGIC-Janis Ranch Project, Alachua and Marion Counties, Florida.

Guest Magazine Theme Organizer

"Fathom" Magazine, Special Issue on Marine Biotechnology, J. Humphreys, Florida Sea Grant College Program, Gainesville, Florida. Includes introductory letter by W. Seaman.

Posters

Humphreys, J., and W. Seaman. 1995. Florida Estuaries. Florida Sea Grant Extension Poster.
