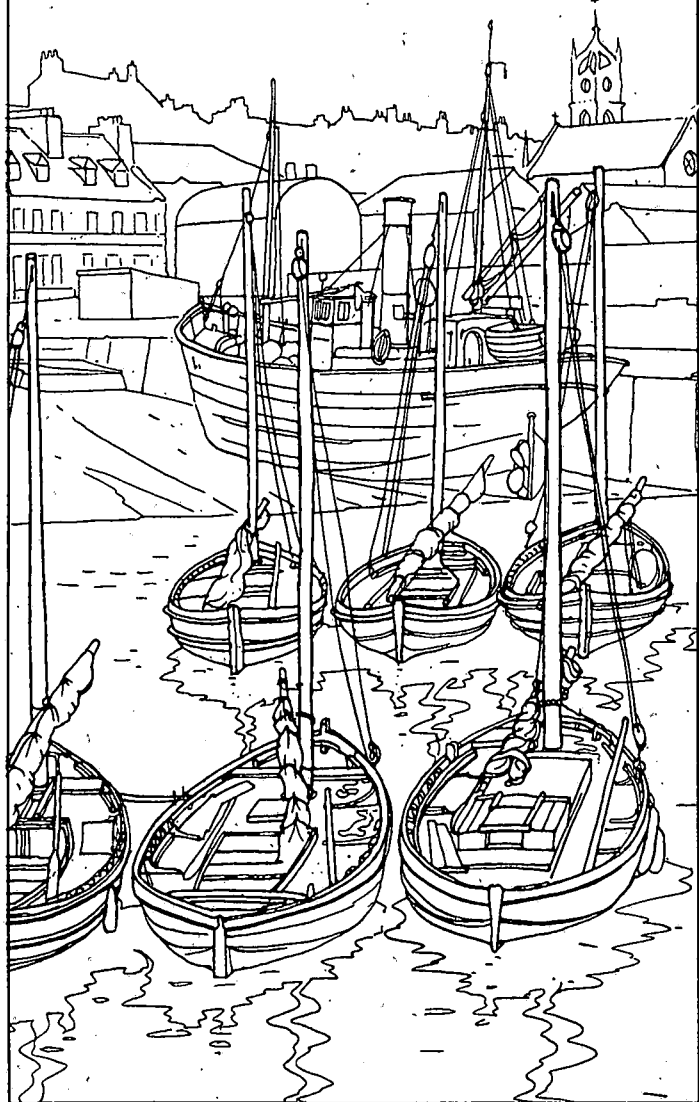


PUTTING OREGON'S OCEAN TO WORK

OSU MARINE ADVISORY PROGRAM



DEVELOPING THE SEA'S POTENTIALS

In Oregon, as elsewhere, more people are looking toward the sea and expecting more from it. Oregon State University, as one of the nation's first Sea Grant centers, is helping develop the economic, scientific, recreational, and aesthetic potentials of the sea. With federal Sea Grant support and appropriations from the Oregon legislature, OSU is embarked on a program of unusual significance to train students in applied ocean disciplines, to conduct applied research on marine resources problems, and to put this information to work through its Marine Advisory Program.

At Oregon State, the Marine Advisory Program is what Athelstan Spilhaus, originator of the Sea Grant College concept, envisioned when he called for "developing county agents in hip boots to take the findings of the marine scientists to...accomplish the true use of the sea for and by people."

EARLY EFFORTS PROVIDE FOUNDATION

Oregon State's earliest extension efforts in the marine field were in the 1940s. Programs in food technology were conducted to encourage the use of fish in the home. In the early 1960s county agents were indeed donning hip boots as they sought to help save the state's oyster beds from burrowing shrimp. In the last 10 years, marine extension work has expanded with emphasis on shellfisheries, estuaries, and land development on Oregon's north coast. The first full-time fisheries extension agent went to work in 1967 in Newport. When the university was named a Sea Grant center in 1968, the Marine Advisory Program became one of three major subdivisions of the Sea Grant program. The Marine Advisory Program is supported through the OSU Cooperative Extension Service by federal Sea Grant funds, by state matching money, and by coastal county governments.

STAFF SPECIALTIES RANGE WIDELY

Today, OSU's Marine Advisory Program staff is made up of nine marine extension agents and specialists. The agents, stationed in Astoria,

Newport, and Coquille, have responsibilities in large areas that include major fishing and shipping ports. In addition, the agents are subject matter specialists in such fields as seafood technology, engineering, shellfisheries, finfisheries, business, marine science education, coastal land development, and others.

Marine extension specialists, operating from the Corvallis campus, are professionals in marine economics, oceanography, industrial engineering, and information.



IDENTIFY AND SOLVE PROBLEMS

Operating as members of a closely coordinated team, OSU Marine Advisory Program staff members work individually and collectively with the commercial fishing industry, recreationists, local governmental units, mining interests, marine transportation, port commissions and other people who would like help identifying and solving problems related to the ocean resources.

OSU marine advisors provide liaison between the university and people who use or seek to use marine resources. Whether assistance is needed in assessing the resource, extracting it, processing or marketing it, the Marine Advisory Program staff brings to bear the university's knowledge and expertise.

Whether by applying results of research already completed or by encouraging university faculty members to begin research on altogether new problems, the marine extension staff members respond quickly to needs of their "clients." In fact, the program is so oriented to being responsive to the needs of marine resource users that agents and specialists spend a good deal of time determining areas in which assistance should be provided. Each Marine Advisory Program staff member actively encourages people to come to him with requests for help.

WHAT DOES IT DO?

Now, does it work? A few examples demonstrate the breadth of the Marine Advisory Program and show the kind of services it provides.

Workshops, seminars, town hall meetings. When the fishing industry needs information, Sea Grant Marine Advisory Program helps provide it. Information sessions have included gear workshops on construction and design; sanitation workshops for seafood processors and their employees, seminars for fishermen on loan programs and vessel insurance; and "Town Hall" meetings for fishermen which report research, development, regulatory policies and other current matters.

Experimental oyster seed hatchery. Marine extension helped identify the need for a reliable, domestic source of oyster seed to supply Oregon oyster growers. In cooperation with researchers, other governmental agencies, investors, and oystermen, the marine extension staff encouraged formation of an oyster cooperative.

Albacore Central. Cooperating with fishermen, researchers, government agencies, and industry, the OSU Marine Advisory Program sponsored Albacore Central, a service to the albacore tuna fishery. Prime product was a daily radio message on fishing and weather conditions, transmitted to the fleet through the Astoria Marine Operator. Supporting the daily radio messages were weekly bulletins and temperature charts.

Publications. Marine advisory publications are intended for ocean resource users. Some are issued on a recurring basis, such as the *Commercial Fisheries Newsletter*. Others are printed one time to meet specific needs. These range from publications for use in the marine science education program, to fact sheets on seafood, to materials for conferences. The Marine Advisory Program views publications as one of its tools and is always happy to receive suggestions for publications.

Public programs in the marine sciences. To meet a growing public interest in marine science, the marine science education specialist conducts organized school visits to the OSU Marine Science Center in Newport, sponsors films, lectures, seminars and meetings at the center that are open to the public, and is host to visitors to the museum-aquarium. More than 625,000 persons have toured the public wing since the center opened in 1965.

Promoting the use of seafood. Workshops conducted for extension home economists and for

Oregon homemakers encourage use of Oregon seafoods by showing them how to select and prepare the ocean delicacies.

Marine economics. Informal sessions with leading fishermen in each port furnish vital information from which the marine economist prepares Marine Economics Data Sheets. The sheets are valuable tools in helping any fisherman make sound management decisions.

Regional programs. To make best use of marine advisory talent in the Pacific states, OSU's staff is helping develop regional programs. The first of these programs was a traveling seminar on sanitation that began in Alaska, then continued in Washington, Oregon, and California. Experts from each of the states participated.

MARINE ADVISORY PROGRAM STAFF

On the coast

William Q. Wick, head of the Marine Advisory Program and specialist in shellfisheries
OSU Marine Science Center, Newport, 97365.
Telephone 503-867-3011

As program leader, Wick supervises the activities of the Marine Advisory Program staff. In addition, he continues his long-time work in shellfisheries, particularly with oysters and clams. He is active in planning development of Oregon's estuaries.

Donald E. Giles, marine science education specialist. OSU Marine Science Center, Newport, 97365. Telephone 503-867-3011

Giles conducts marine science education programs for the public at the OSU Marine Science Center. In addition, he is working with science teachers throughout the state to develop and conduct planned, integrated programs in marine science for students in all grades.

Paul A Heikkila, marine extension agent.
Coos County Extension Office, Courthouse, Coquille, 97423. Telephone 503-396-3121

Heikkila has broad experience in Pacific coast fishing. He is particularly interested in helping fishermen acquire proper storage and repair areas, and in serving as an information source on commercial fishing developments and techniques. In addition, Heikkila provides information to southern Oregon coastal communities about problems, needs, and successes of the fishing industry.

Kenneth S. Hilderbrand, seafood technologist
OSU Seafoods Laboratory, 250 36th St.,
Astoria, 97103. Telephone 503-325-6138

Drawing on his previous experience in industry, Hilderbrand encourages communication among members of the seafood industry, government agencies, and the university. His projects emphasize plant and boat sanitation, boat refrigeration, production quality, packaging, marketing, new products, and waste utilization to help the seafood industry keep pace with other segments of the food processing field.

Robert W. Jacobson, marine extension agent. Lincoln County Extension Office, 225 W. Olive St., Newport, 97365. Telephone 503-265-5376

With background and experience in business and commercial fisheries, Jacobson serves as an important source for members of the fishing industry throughout the state. He emphasizes gear and equipment, methods and techniques of operation, and federal and state fisheries legislation. In addition, he edits the Oregon Commercial Fisheries Newsletter and conducts workshops and short courses.

On the campus

Gwil Evans, marine science information representative. Waldo Hall 238, Corvallis, 97331. Telephone 503-754-3092

Drawing on education and experience in science and journalism, Evans conducts public information programs, internal information programs, and supervises production of publications for the Sea Grant program. His work is carried

on in conjunction with the Department of Information and Extension Information.

Don Langmo, industrial engineer. Department of Agricultural Economics, Extension Hall, Corvallis, 97331. Telephone 503-754-2942

Recognized as an authority in the fields of agricultural economics and industrial engineering, Langmo has long worked with food processors in the state of Oregon. Langmo applies proven industrial engineering techniques to seafood processing and is making results of his work available to processors. In addition, public interest in seafood has been further stimulated as a result of Langmo's work.

Daniel A. Panshin, oceanographer. Department of Oceanography, Corvallis, 97331
Telephone 503-754-3354

Bringing extensive experience in management, research, and naval matters to the staff, Panshin provides oceanographic support to those who are trying to make their livelihood from the ocean—especially to commercial fishermen. He helps put interested oceanographic researchers in touch with people in the field, helps field people to phrase their questions and then brings these questions back to campus. In addition, he works with manufacturing and consulting companies seeking to become involved in oceanography and marine sciences.

Frederick J. Smith, marine economist
Department of Agricultural Economics,
Extension Hall, Corvallis, 97331
Telephone 503-754-1821

Smith has extensive background and experience in agricultural economics, marketing, and marine economics. He is principally concerned with providing information to marine industries on their economic position and problems, assisting in solving individual management problems such as finance, insurance, and taxes, increasing impact of seafood marketing and merchandising, and providing guidance in marine economics research programs.

Men helping men
put the ocean
to work

OSU

Marine Advisory Program

Cooperative Extension work in agriculture and home economics, Gene M. Lear, director, Oregon State University and the U. S. Department of Agriculture, cooperating. Printed and distributed in furtherance of the Acts of Congress of May 8 and June 30, 1914. 4M - 3-70

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