

## CIO Woodworkers Announce Goals For Wage Hike

Portland —(U.P.)— Easing surprise at a wage announcement in Seattle by the AFL Lumber and Sawmill Workers Union, the CIO International Woodworkers of America today announced its own goals for wage negotiations next year.

The IWA said in a statement that it would aim for a pay boost of 12½ cents an hour across the board, plus various fringe benefits and that it wants a contract running to June 1, 1958, with provisions for wage reopening.

Plywood and door manufacturers and the Puget Sound District Council, AFL, announced Saturday in Seattle that agreement had been reached on a formula for a pay increase which would run from Dec. 1, 1955, to April 1, 1957. It called for a boost of from 5 to 15 cents and was believed to average about 8.5 cents. If all AFL locals and associations in the Northwest followed the pattern, some 100,000 workers would be affected.

The IWA regional negotiating committee met here over the week-end. In the statement issued yesterday the IWA said, "Delegates to the convention evinced considerable surprise at the settlement because earlier conference reports showed the IWA and the Lumber and Sawmill Workers had held several meetings this year to coordinate negotiations of both unions with employer groups."

## Talkative Fish Fill Ocean Depths With Weird Sounds

Washington — In the not-so-silent depths of the sea, noisy fish often make quite a din.

Some fish cackle. Others yowl. Still others wheeze, honk, bark, groan, or snore — and occasionally sound like coal sliding down a chute or heavy chains being dragged over a wooden floor.

Whether fish actually "talk" or merely make meaningless sounds, listeners are still unsure. But science pays increasing heed to what can be heard in the deep.

### Ocean Bedlam

Marine biologists, lowering their hydrophones 100 miles off Bermuda, recorded an astounding cacophony of moans, bleats, whistles and buzzes. Similar auditions have been made all over the world. From the studies, many specific fish noises have been identified.

Schools of snapping shrimp, by clicking their claws together, sound much like fat frying, twigs burning, or in large numbers like a loud buzzing snore. A deep booming may be the call of groupers. A drumfish's drumming is more rapid, earning the nickname "thunder pumper" for the fresh-water drum.

Toadfish growl a low but loud note much resembling a subdued steamboat whistle. Various trigger fishes hiss, rasp, grate, or almost bark. The grunts, to produce their distinctive sound, gnash their teeth together.

Early in World War II, as submarine sound detectors first came into wide use, many a

depth charge was dropped on a hapless school of fish or even on an occasional whale. It became vital to find out what these sounds were that the sea normally holds.

The Navy might well have looked into its own records. In 1824 a Lieutenant John White reported hearing underwater sounds in the River Cambodia (Mekong) in Cochin, China — some like notes from a deep-toned organ, other of bells, croak-

ing frogs, or the twang of a huge harp.

### Science Listens to the Sea

In more recent years, ichthyologists found that Lt. White was definitely not hearing things. Mrs. Marie Poland Fish of the University of Rhode Island's marine laboratory played underwater recordings before the august American Association for the Advancement of Science — a presentation that made headlines.

Experts of the naval ordnance laboratory put together a library of fish noises from both Atlantic and Pacific, after they found their new acoustic mines were being set off by the racket under the seas.

Some of the noisiest ocean disturbers, such as drumfish and croaker, vibrate special muscles against air bladders. The croaker can thus make a racket resembling an air hammer beating on asphalt. Sea robins can sound

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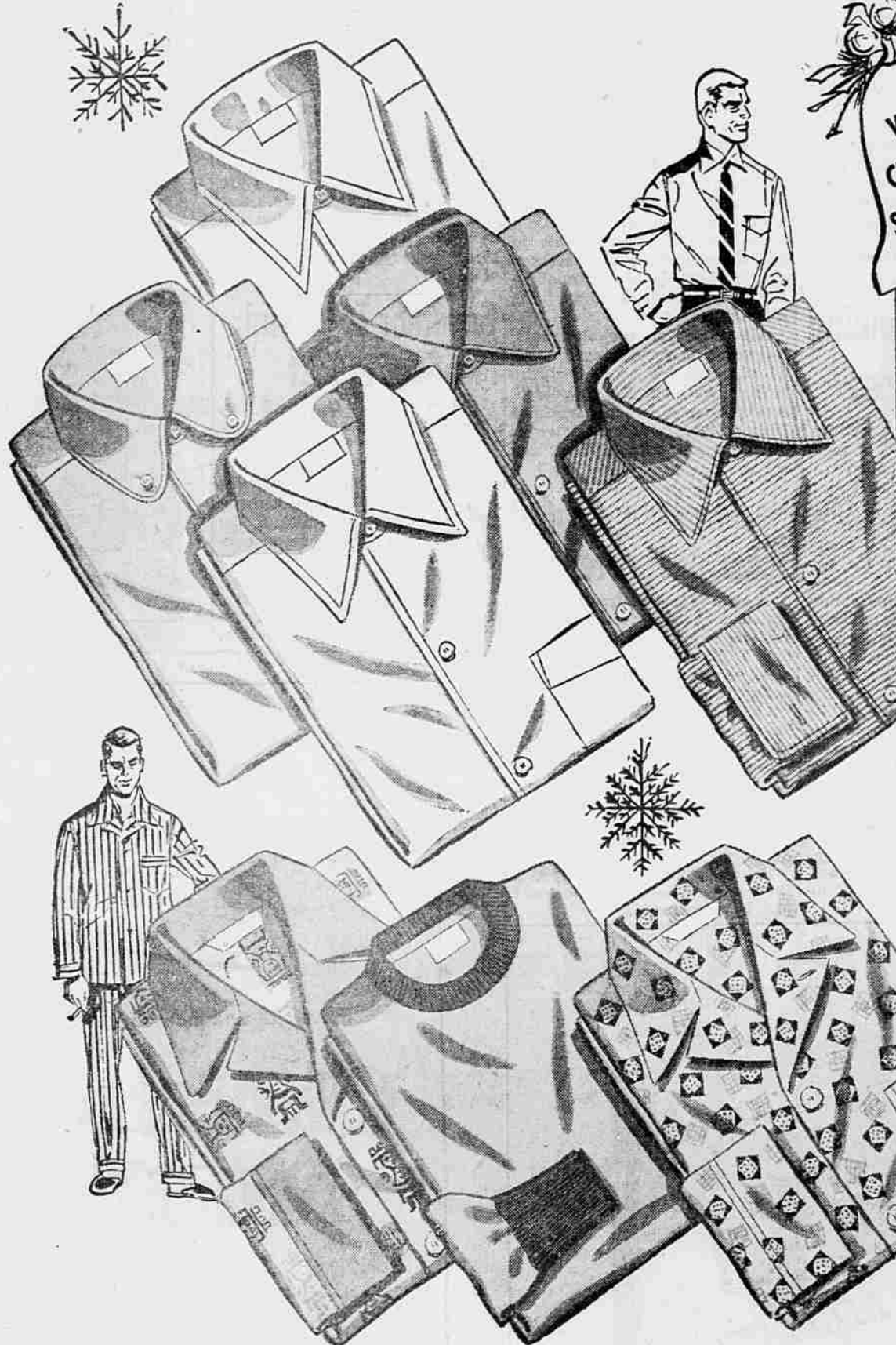
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## Science Using Teamwork To Get More Out of Money

Columbus, O. —(U.P.)— Dr. Clyde Williams, head of one of the world's largest independent research laboratories, says science is using teamwork to get more out of today's research dollar.

The president and director of Battelle Memorial Institute here said that the team approach perfected in the past few decades, is the greatest step forward yet made in solving research problems. Teamwork brings together many different kinds of specialists to work on a single problem.

Williams recalled one of his organization's own recent projects to make his point.

Thomas Edison, he said, spent \$140,000 working alone just to develop the first carbonized thread lamp filament and to find the best natural fiber for it.

In contrast, Battelle chemists, metallurgists, physicists and engineers, working in organized teams, solved the complex problem of breakage of oil well drill pipe with the expenditure of but \$20,000.

The problem, he said, had cost the industry millions of dollars annually and was long considered practically unsolvable. The entire cost of the Battelle research, however, was recovered by drilling contractors in less

than one week of normal drilling operations.

Williams outlined the plans which research administrators have for increasing the efficiency of research in a recent talk before a group of investment officers of life insurance companies. His study is scheduled to appear in the "Battelle Technical Review," a scientific journal circulated to American and European scientists.

Here's how research administrators expect to make research more efficient, Williams said:

1. Find ways to help research workers increase their productivity.
2. Make research even more effective in solving industrial problems.
3. Decrease the time interval between the starting of a project and its completion.
4. Eliminate a large percentage of the projects that don't pay off in corporate profits.
5. Solve, incidentally, critical problems of manpower supply.

Companies sometimes find the cost too high to set up their own research facilities for a particular problem, so they contract with organizations such as Battelle to solve the problem. This is called "contract research" and is another recent development to step up research efficiency.

### Eliminate Deadwood

Williams said the day is past when companies boasted that only one in 10 or 15 of their research projects paid off financially.

"The aim today is to eliminate, insofar as possible, the projects that don't pay off," he said.

Research administrators use mathematical means to determine if a project will pay off, and they plan ahead to use only those projects best calculated to be successful.

Administrators don't overlook the individual scientists themselves, Williams said. The scientists are being provided with adequate technical, clerical and stenographic assistance.

Psychologists are called upon to increase the efficiency of research scientists, too, Williams said.

"Creativity is a capacity that everyone has to some degree, although few of us ever utilize more than a small fraction of our latent abilities," he explained.

Williams told how Battelle tries to stimulate creativity among its staff by holding informal group meetings "merely for letting imaginations run wild."

Williams said public acceptance of research "is creating pressure for increased research." He credits the journalistic and advertising professions with doing "a good job of selling science to the general public."

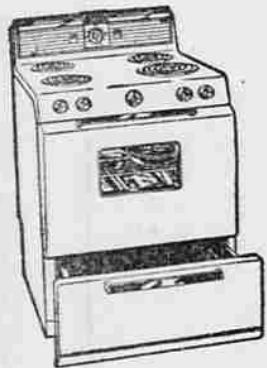
## Eisenhower Planning Family Thanksgiving

Gettysburg, Pa. —(U.P.)— President Eisenhower plans to spend a "family Thanksgiving" at his farm.

White House Press Secretary James C. Hagerty announced today that the first family circle for the traditional turkey and trimmings dinner will include the President and Mrs. Eisenhower; their son, Maj. John S. Eisenhower; his wife, Barbara, and the three grandchildren.

Hagerty said the President was looking forward to a quiet holiday week end with the family.

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