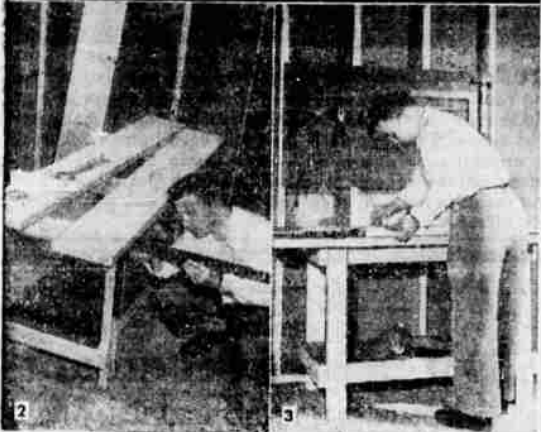


It's a 30-Minute Job!

This Workbench Is a Cinch



THE heart of any workshop is the workbench. Here's one that can be built in approximately a half hour, if you use pre-cut materials, which will cost under \$15. They include 2 x 4-inch lumber, 2 x 10-inch planks and a 4 x 6-foot panel of Masonite 1/4" Tempered Presdwood for the working surface and shelf, plus nails and spikes.

An additional feature is the "Peg-Board" panel which is becoming a "must" in most workshops. This and matching metal fixtures may be obtained at lumber yards, too. Placed on the perforated Presdwood panel, tools are always where you want them and are easily replaced.

Following are the materials needed: From 2" x 4" stock—four legs, 32" each; four side braces, 22" each; four braces for front and back, 60" each. From 2" x 10" stock—Three pieces for top, each 72" long. From a 4 x 6' panel of Masonite 1/4" Tempered Presdwood—Top surface, 28 1/2" x 72", and bottom surface 18 1/2" x 63 1/4".

Accompanying photos give important clues to putting the workbench together, but a free working drawing is available. Write the Home Service Bureau, Suite 2037, 111 W. Washington St., Chicago 2, Ill., requesting Plan No. AE-312.

Photo 1. Any workbench, new or old, is improved by a replaceable panel of Masonite 1/4" Tempered Presdwood. Apply it with countersunk screws.

Photo 2. The half-hour workbench is nearly complete—just 13 minutes to go! Note supporting framing under planks and lower shelf already in place.

Photo 3. Ready for action! Handy "Peg-Board" panel is ideal for tools.

Electric Pump Rates Studied

Rates for the initial season of electric power for pump irrigation as well as equipment and methods of applying water were discussed here February 3 by George M. Larimer, manager of Midstate Electric Cooperative and Marvin Shearer, Oregon State College irrigation specialist. This was the third in a series of irrigation meetings sponsored by the Fort Rock-Silver Lake Soil Conservation District.

Larimer discussed irrigation rates and plans for billing. He explained the rate structure for motors of varying horsepower and operated for different lengths of time, answering individual questions raised. "The cooperative will permit across the line wiring of pumps up to and including 30 hp," he stated. "The cooperative will supply meter assembly up to the motor panel."

Shearer stressed the value of efficiency in operation as a means of lowering costs. He discussed plans set up by George Watt, Soil Conservation Service area engineer showing comparative costs for (1) surface irrigation with a small pump operating full time, (2) with a large pump operating half time and (3) with sprinkler equipment.

In making plans for an irrigation system, Shearer recommended that the most efficient method be determined for each operation. "The level border method is considered the most efficient type surface irrigation known today," he stated.

In judging sprinkler systems the speaker recommended as a guide the Oregon State College Station Bulletin No. 548, "Buying a Sprinkler System? Here's How!" by John Wolfe.

In purchasing irrigation equipment, Shearer reminded the group of the value of buying from a reliable local dealer who can furnish both parts and service. "If things are not quite right, it's much easier to knock on a local man's door than write a letter to a company miles away. A guarantee is no better than the man behind it," he commented.

Elgin Cornett, Lake County extension agent, was moderator for the meeting.

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Engineering Dean Urges Women To Enter Profession

OREGON STATE COLLEGE — More women should take engineering in college to meet the demand for their sex in industry, believes George W. Gleeson, dean of engineering at Oregon State College.

Industry wants the feminine viewpoint, the dean says. In such fields as civil, mechanical and electrical engineering, companies design many of their products to appeal to women. And engineering-trained women are always in demand, he adds, as technical librarians, editors of technical brochures and magazines and as secretaries in engineering firms. Backing up this need is a nationwide shortage of both men and women engineers.

The Oregon State School of Engineering is one of the accredited engineering colleges in the United States that has admitted women. But in the history of the school at OSC, only 32 women have enrolled. Less than a dozen of them have continued on to graduate. Other schools find the situation much the same.

It is more difficult for a woman

than for a man in this field, the dean acknowledges. There are no special provisions made for women engineers at OSC and they are far outnumbered by men. This winter term, for example, the engineering school — which has the highest enrollment of any school on campus—lists 1233 students, of which only four are women. Coeds work alongside men in laboratories, in the field and at the drawing board.

What phase of engineering should a girl take in college? Gleeson says there are opportunities in every field. However, he believes the most openings for women today are in civil engineering, with emphasis on architecture; mechanical engineering, particularly in heating and ventilating; and chemical engineering.

The student at OSC has a choice of six branches of engineering—agricultural, chemical, civil, electrical, industrial and mechanical. A woman taking any of these fields should use her electives in secretarial study, the dean recommends.

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