

Engineers Promise Informative E-Week

Seven departments in the College of Engineering and Architecture are busily preparing displays which will be featured in E-Week which begins tomorrow.

AGRICULTURAL

Thursday's E-Week Open House will find several varied and representative demonstrations from the Agricultural Engineering department located on the practice field, west of Avery Lab.

Two of the power and machinery demonstrations planned will place emphasis on the machine's operator. A full-scale tractor upset will be staged to emphasize operator safety, and show how easily improper hitching can cause a serious accident.

Another display will be concerned with measuring, by means of an accelerometer, the effects of rough field conditions upon the operator, according to Ag display chairman Carl Bern and Darrell Bishop.

A scale model Case steam-powered tractor will be in operation during the Open House.

The 1961 model steam-powered tractor will show the progress in tractor design, Bern said.

A portable dynamometer will be set up and used to determine the power take-off and horse power output of the display tractor.

In addition to the mechanical displays, said Bishop, the soil and water division will display the University's minimum tillage machinery.

Agricultural Engineering is involved with such things as atomic energy, electricity, electronics, machines, new construction materials, moisture transfer and evaporation, handling chemicals, handling plant materials, land shaping and water control systems. A knowledge of both pure and applied science is required of the graduates of this department.

ARCHITECTURAL

Sculpture, painting and pottery displays will supplement E-week displays in Architectural Hall, according to project chairman Dick Robinson.

The displays, based on the idea of "Good design — a function of beauty plus utility," are to include exhibitions by students, faculty and practicing Nebraska architects.

Visitors to the Hall will find the entrance emphasized by a wood and cord canopy over the walk.

As they pass through the main hall, architectural models and other work by students and professional architects will be on display.

An architecture student at the University participates in two main types of projects: original projects of his own, and studies of the works of famous architects.

One of the department's most well-known projects is the fifth-year program in its curriculum.

A student who enters this program goes far beyond the fundamentals of architecture by means of a three-point program: (1) an intense and exacting assignment, such as a bus terminal; (2) an assignment which stretches the student's imagination, such as the design of a village in the Amazon Basin; and (3) an assignment closely tied to the immediate surroundings of Lincoln, usually reproduction of some local example of interesting architecture.

which is similar to the above and some foam polymers will also be shown.

A radio will be operated on the energy supplied by oxygen and hydrogen as it is converted to electrical energy in a fuel cell.

A small bit of material (mercury) which is ordinarily used in thermometers has been recreated into a pulsating human heart and will be shown at the open house.

The department of chemical engineering, headed by Prof. James H. Weber, is not only one of the newest fields of engineering study but also one of the most lucrative.

The program in the department is designed to prepare students for work in the chemical process, the petroleum, and petrochemical industries, certain phases of atomic energy field, and graduate study.

Graduate chemical engineers engage in a variety of activities in the numerous industries cited above. Some of the more important areas of work are production, sales, market development, process design and development, research and management.

The individual courses offered by the department cover such topics as material and energy balances, fluid mechanics, heat transfer, distillation, absorption, thermodynamics, kinetics process and process engineering economics.

CIVIL

All civil engineering displays for E-Week are to be based on a study of Trenton Dam, 22 miles west of McCook, according to one of the project co-ordinators, Dan Grubb.

The history of this reclamation project showed problems which had called on virtually all branches of civil engineering for solutions.

A six foot square model and other devices are designed to display those branches at work.

Visitors to the displays will first be shown a general view of the project, including aerial photos, and then observe the exhibits which demonstrate the individual problems, Grubb said.

These problems included the building of the dam itself, moving the entire town of Trenton and some major highways and railroads, which involved new water and sewage systems for the rebuilt town, watershed planning for maximum recreation and conservation potential.

and conservation potential.

The surveying and soil studies required, the economic studies needed to determine the financial feasibility of such a project, and the hydraulics involved in putting the water to use.

This last aspect involves a "very spectacular" display, Grubb stated. It is a demonstration of a phenomenon called "hydraulic jump," in which water actually seeks a higher elevation because of its inertia.

ELECTRICAL

On display at the electrical engineering building will be a walking, talking robot, a display on guided missiles and a short-wave radio set up to communicate between the electrical engineering and Military and Naval Science buildings.

A display on direct-distance dialing, loaned by the Telephone Company, will also be set up.

A closed-circuit, television set will be installed to allow visitors to see themselves on television.

On display also will be smaller exhibits which are the result of weeks of work by individual students.

The electrical engineering department at the University has initiated a new bio-medical program which has received very favorable response from industry and university associated medical centers.

According to Professor Robert Combs, director of the program, the University is one of two schools in the nation which has this type of program in medical electronics.

The program is designed to promote better communication between the engineer specialist and the medical science specialist.

MECHANICAL

A relatively new area of interest to the mechanical engineer, nuclear engineering, will be one of the displays shown by that department during E-Week.

"This display model will feature a nuclear reactor in operation at Shippingport, Pa. The display will also try to give the public some idea of the problems that this new field has posed to the engineer, but at the same time it will attempt to show how rel-

atively safe nuclear power is," said Bill Scheffel, mechanical engineering publicity chairman.

Industry has found many uses for radioactive tracers which are both unique and varied, he said. A few of the ideas will be portrayed in that display.

The missile display showing models of various types of missiles and their launching sites, will be a major interest to most visitors.

A cut-away model of the "silo" type lunch site will show the underground features of the sites which are now under construction in the Lincoln-Omaha vicinity.

"A unique musical lathe and what we feel is a very fine air conditioning display will also be set up," said Scheffel.

A display indicating the major articles of the mechanical engineer's code of ethics will be set up in Richards Hall for public view.

"Mechanical engineers have written a code of ethics by which he governs his own conduct toward the general public, his employer and fellow engineers," said Scheffel.

Among the other displays this year are some of the areas of industry and defense in which the mechanical engineer plays an important role. One such area is automotive engineering. This display will show the engineer-

ing kinematics and machine design. The displays will be located throughout Bancroft Hall.

ENGINEERING MECHANICS

The Engineering Mechanics department offers for this year's E-Week a variety of displays associated with the field of engineering mechanics.

The features include compression tests on concrete and tin cans, column tests on wood beams, gyroscopic displays, a reproduction display set up to reproduce various guests names by the use of a Leroy set, several freshman drawings and other displays involv-

ing kinematics and machine design. The displays will be located throughout Bancroft Hall.

The use of an analog computer will be featured in the E. M. department. The ease of use and the "unbelievable" speed of solving problems promises to leave guests and visitors "problemless".

A strain gauge apparatus will be set up to weigh guests as they come through the open house.

A hollow balsa beam, containing a gyroscope similar to ones used in the missile field, will appear in a Miller and Paine window producing a negative gravity effect during E-Week.

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DR. FROOD'S THOUGHT FOR THE DAY: A little learning can be a dangerous thing—especially in a multiple-choice exam.

DEAR DR. FROOD: I have been training our college mascot, a goat. He has learned how to open a pack of Luckies, take out a cigarette, light up and smoke. Do you think I can get him on a TV show?
Animal Husbandry Major

DEAR ANIMAL: I'm afraid not. To make TV nowadays, you've got to have an act that's really different. After all, there are millions of Lucky smokers.

DEAR DR. FROOD: I am a full professor—and yet I stay awake nights worrying about my ability to teach today's bright young college students. They ask questions I can't answer. They write essays I don't understand. They use complicated words that I've never heard before. How can I possibly hope to win the respect of students who are more learned than I am?
Professor

DEAR PROFESSOR: I always maintain that nothing impresses a troublesome student like the sharp slap of a ruler across his outstretched palm.

DEAR DR. FROOD: I have calculated that if the population explosion continues at its present rate, there will be a person for every square foot of earth by the year 2088. What do you think of that?
Statistics Major

DEAR STATISTICS: Well, one thing's sure, that will finish off the hula-hoopers—once and for all.

DEAR DR. FROOD: You can tell your readers for me that college is a waste of time. My friends who didn't go to college are making good money now. And me, with my new diploma? I'm making peanuts!
Angry Grad

DEAR ANGRY: Yes, but how many of your friends can do what you can do—instantly satisfy that overpowering craving for a peanut.

DEAR DR. FROOD: Could you give a word of advice to a poor girl who, after four years at college, has failed to get herself invited on a single date?
Miss Miserable


DEAR MISS: Mask!

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