

Display Route . . .

THE UNIVERSITY OF NEBRASKA
COLLEGE OF ENGINEERING

PRESENTS ITS

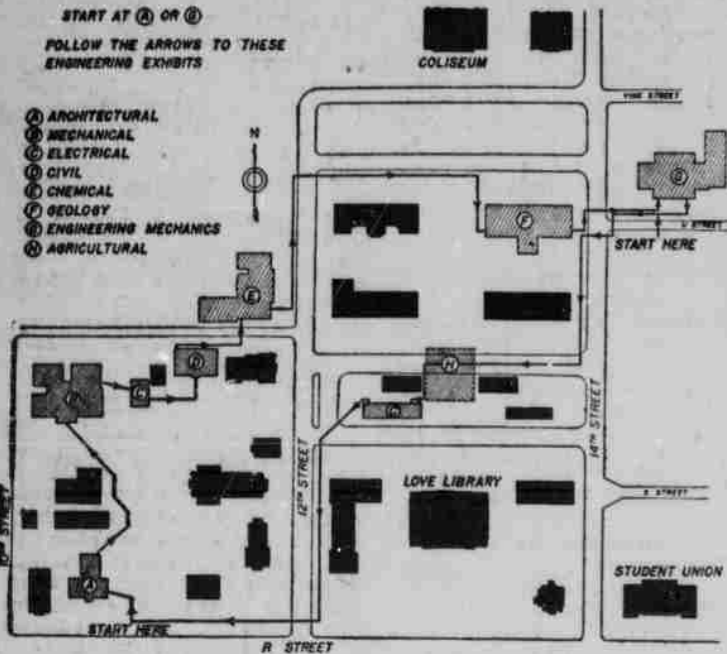
Thirty-Eighth Annual

ENGINEERS' WEEK

Today's Dream

Tomorrow's Reality

April 27-28, 1950



OPEN HOUSE PROGRAM

DEMONSTRATIONS—The exhibits and demonstrations will be open to the public from 2 p.m. until 10 p.m. Thursday. Visitors are urged to begin their tours of the show at one of two points—either at Architectural hall, near 11th and R streets, or at Bancroft hall at the northeast corner of 14th and U and proceed according to the above map.

Oil Drilling, Panning of Gold, To Highlight Geology Display

The display of the geology department for Engineer's Week this year is planned not merely to show the public the mysteries of geology but to give the students a chance to get rich.

As a by-product of Engineer's Week, the geologists are drilling for oil, panning for gold, collecting radioactive minerals and indulging in other pastimes calculated to make them all millionaires.

A truck-mounted rotary drilling rig will be set up on the west side of Morrill hall. This 25-foot portable rig, borrowed from the Conservation survey, is capable of drilling a six-inch hole more than 1,500 feet deep. Geology students are aiming for a mere 1,200 for the night of open house, but the job will keep them busy the entire eight hours.

Show Processes

The actual operation will show onlookers how lengths of drill are added, how drilling mud is used to wash out the cuttings and samples taken from the hole. It has not yet been determined how the profits will be divided.

In another part of this operation to recover the mineral wealth of the state of Nebraska, several prospectors, complete with burro, will pan a pool of Nebraska mud for gold. This display will show how the geology students use their education. The burro will be present in an advisory capacity only.

Model Oil Fields

The guests will see how the presence of oil-bearing strata is determined by the study of fossil structure. Also shown will be models of the fields at Sidney and Falls City. A petrographic microscope will show rock structure in slices of rock three-hundredths of a millimeter thick, thin enough to transmit light. It is rumored that the oil drilling and gold-panning is being carried on to pay for personal microscopes, which cost 51,200, for the students.

Strategic ore minerals will also be shown. Included in this display are the radioactive minerals needed for the development of atomic energy.

Slide Rules . . .

(Continued from Page 1.)

lators projects sponsored by the engineers is the motion picture being made of the college. This picture will be shown throughout the state to high school students.

There is an increasing tendency in the Engineering college toward a wider interest in the activities of the University as a whole. There has been a certain lethargy in this respect in the past, but things are changing for the better.

Recently, the Engineering Executive board sponsored a meeting to acquaint underclassmen of the college with University activities. Representatives from The Daily Nebraskan, Cornucopia, Nebraska Builders and the Cornhusker told of the opportunities in their organizations.

Explain Activities

Also, each semester the board acquaints freshmen students with these activities. Activities within the college are the six professional societies. The student is urged to belong to these in college, as he will undoubtedly join them after graduation.

There are also the engineering honoraries, Sigma Tau, which is an overall honorary. Eta Kappa Nu, for electrical engineers, Pi Tau Sigma, for mechanical engineers. Besides, there is the opportunity of working on the engineering college's publication, the Nebraska Blueprint.

In addition, it is taken for granted that all engineers take part in making Engineer's Week a success. And the most remarkable part of this last statement is that all the E-Week activities are planned and executed by the students themselves.

Film to Describe Modern Kitchen

Architectural engineers will show a film at Open House on the modern step-saving kitchen. They also have a full-scale wall and floor ceiling section of house construction possibilities with costs and efficiencies figured.

In addition, they will display many house models and a number of models of buildings.

'Better Living' Theme Describes CE Exhibit

This year the chemical engineers have a slogan of their own for Engineer's Week. "Chemistry plus engineering equals better living."

If there is anything the students at the University are for, it's better living. Of course, there is a little argument as to how to get that good life, but the Chem. E.'s think there will be no argument about their way.

Right off the bat, there is the two-way still-illustrated Open House night as a potato still, but

actually demonstrating the techniques used in the separation of gasoline and other products from crude oil. And we all know that no man wants to walk when he can ride.

Drunkometer

In order to keep everything under control, the Chem. E.'s have installed a drunkometer upstairs for those who have been influenced by the fumes from the potato still. This handy gadget is almost guaranteed to prove that it was Aunt Gertrude who was really sneaking the hard cider out of the jug.

In any case, another thing the most men like to have sprinkled about the house is cash. The Chem. E.'s hope to pick up a little change distilling the oil that the geologists find Thursday night, but if the profits are low in that line, they have another business set up that really pays the dividends—artificial gems.

It is rumored that you can't tell them from the real ones that the natives scratch out of the soil. Makes a handy gift for that favorite blonde or brunette, too.

Make Life Easier

A great deal of the remainder of the display will indicate the manner in which the engineer is making life easier. Most of this will be shown with the idea that the raw materials are Nebraska products.

Last year the Chem. E.'s produced bubble gum to please the kiddies (under 10) and this year they intend to show how they can make the old folks (over 10) happy. In case the old folks are taking the kiddies this time, they're welcome to park them in the Chemical Magic show, which will keep them amused, confused and diffused. This show, by the way, is also pretty good for the old folks from the freshmen who look younger every year—and why shouldn't they, to a guy who watched Love Library go up.

Finally graduated. Seemed some professor didn't get the word in time about that grade turned into the office for seniors being unworkable.

Tug of war team should be o. k. with Red Kudlik still around. One more bad item for these boys is the notice that the E.E.'s are going to check all the eggs this year for the egg tossing business. Seems as if the Chem. E.'s used a hard-boiled egg last year.

Speaking as a fellow whose main cultural reading in the last three years has been Perry's handbook, I am wondering about the cultural implications of Milton Mohr's speech—no, address, speech is vulgar these days—for the Engineers' Week convocation.

Mr. Mohr is one of the brighter boys that have graduated from the University recently, which means in my lifetime and memory. He ought to be able to add something to the engineers' store of knowledge.

May this avoid the fate of all good garbage!

Garbage By Golly

By Agin Garbage

Several days ago the idea suggested itself to me that I attempt to write something humorous about and of engineers. The first thought I had was to try something original; some virginal offering from my fresh and already overflowing brain. Didn't work.

Next, I tried asking other engineers. They all seemed of the opinion that there was nothing funny about the Engineering college. Said so. Just those words, too. Following that, I tried asking people who were not engineers.

They too, thought there was little humorous in the college. One acquaintance offered the suggestion that he knew some that were very funny looking, but that was as far as it went.

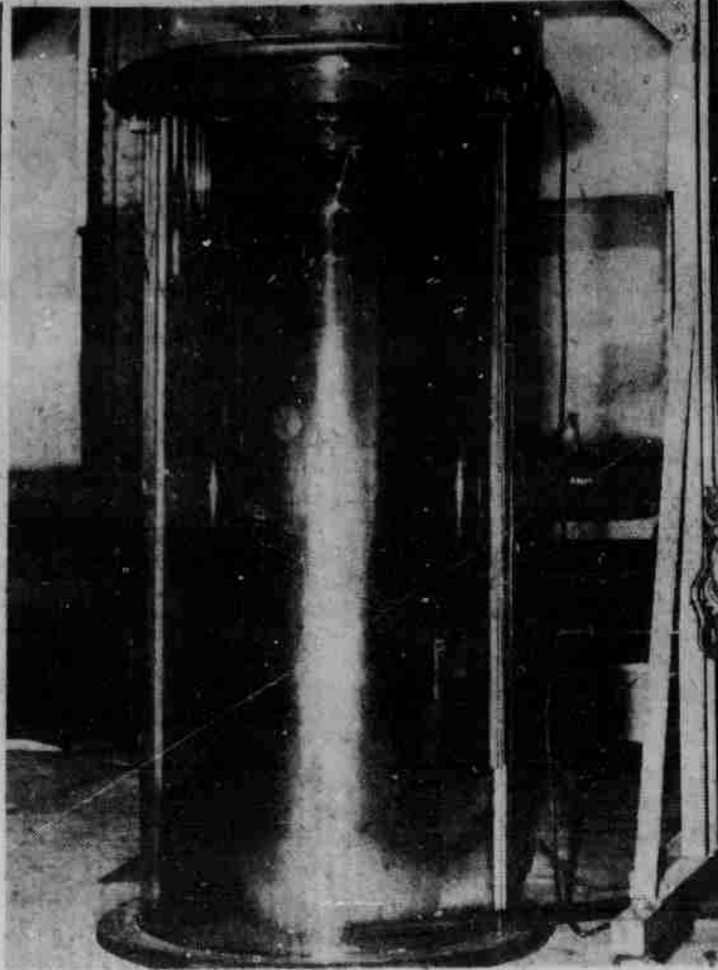
Finally, I stooped as low as an engineer can—I asked my wife. Most foolish thing I've ever done. Knew that as soon as I'd asked her. She started out with a long whooping, howling derisive laugh. Then she took advantage of the opportunity I gave her.

"Funny? If you're any example, there's nothing about the beast that isn't funny in some way or other. Any guy that uses a slide rule to figure out last month's grocery bill . . . and so forth. As any man can tell you, I'd made my big mistake. Actually, engineers' wives are unusually loyal. Sort of on the principle of keeping the old dog around the farm for sentimental reasons.

Speaking, or writing of engineers' wives, they stand a good chance of getting their yearly night out with the old man at the engineers' week banquet and dance. My wife has been reminding me recently that the last show she saw was "Hamlet."

Alone, too. Anyhow, we expect to see all the boys there. Single men also, if they're having any better luck than they were the last time I checked.

There seems to be little doubt as to whether the Chem. E.'s will be able to do as well in the athletic department (Field Day) as they did last year. Fred Fuller



MAN-MADE TORNADO—On display during Engineers' Day in Richards lab, this "tornado" made of steam is contained in a cylinder three feet in diameter and five and one half feet high.

ME's to Construct Tornado In Six Foot Glass Cylinder

For Open House the mechanical engineers have a man-made tornado enclosed in a glass cylinder almost six feet tall and three feet in diameter. The tornado itself is made of steam, introduced at the bottom of the cylinder.

A powerful axial flow fan at the top of the cylinder draws in air through side vents. The tangential force of this air imparts a spinning motion to the steam and produces a tornado. (Note: This display is more easily understood when seen. The M.E.'s will be on hand to explain it and to show the pressure distribution within the cone of the tornado.)

Aviation Progress

Of primary interest to the young aviation enthusiast will be the display of 50 years of progress in the aviation field as shown by engines. There will be cutaway models of both jet and modern reciprocating engines.

To show the application of the M.E. curriculum, there will be many interesting displays. Besides the large cupola, the world's second smallest cupola will be in operation. The world's smallest Bessemer converter will also be operated. The small cupola runs a heat of about 10 pounds of metal, while the converter holds about 25 pounds of metal. The manufacture of an aluminum bevel gear from the drawing board through the pat-

tern shop, mold, foundry and machine shop will be shown.

M.E. Equipment

This show also gives the public the opportunity to see the new equipment added by the mechanical engineering department. One of the biggest items is a new turbogenerator. A turbogenerator is also one of the smallest items. The small one is run on compressed air at 15,000 rpm and develops enough power to light a small light bulb. The turbine itself is but four inches in diameter.

There will be a variety of other displays such as air conditioning, welding, the laboratories and, of course, that old favorite, the liquid air show.

Classified

GOLFERS—40% off on all 95c balls. Titleists, Dots, Royals, Top-notches, K-28's, etc. Free delivery. Warren Buffett, 3-2592.

NEW Smith-Corona Portable typewriter; '35 Ford Sedan. Will sacrifice. 5-7323.

FOR rent, Efficiency apt. Private half bath, nice large semi-basement room with private bath for 4 boys. \$10.00 each 1845 E.

LOST. Small metal picket soldering. Bancroft vicinity. Phone 5-3307. Reward.

TUXES for rent at AYERS, 1400 O.

GIRLS for part-time theatre employment, must be neat in appearance and have pleasant personality. Apply 325 Stuart Bldg.

CE Sewage Display Tells Processing

The civil engineers this year are featuring the processing of sewage as done in a typical modern small town plant.

The working model, which has running water and moving parts to give a graphic illustration of the process, will be found in Mechanic Arts hall.

The sewage, direct from the town, will first be passed into a grit chamber to remove sand and gravel. From this phase it passes to either a bar screen or a grinder, to remove floating material and large particles or reduce the size of these components. In either case, the sewage is passed to a clarifier which removes the sludge.

Clarifier Used

A clarifier operates by sedimentation. That is, the clear effluent is passed off a settling solution while the sludge is raked to a discharge point at the bottom.

The liquid effluent is sent to a trickling filter, a sand bed where any remaining solids are removed. At this point, the civil engineers have the aid of helpful bacteria, which clean up the solution so that it may be dumped in a stream or lake.

The sludge from the clarifier is taken to a sludge digester where more helpful bacteria do the work. The digested sludge is removed and dried. This finished product is either buried or sold as commercial fertilizer. Several fertilizers on the market are the product of plants such as this.

Without Bacteria

Just to show that they are capable of doing a few things without the aid of helpful bacteria, the CE's have constructed a model railroad display. The model, which is 15 by six and one-half feet, will have two trains, cuts, a trestle and several tunnels. Like the sewage show, it has running water. As an added attraction it will feature several waterfalls.

Due to the big state-wide wrangle about highways, the CE's are also having a highway exhibit.

In addition, there will be a number of traditional displays, such as the show of the history of civil engineering illustrated by surveying instruments.

IVCF to Elect '50-'51 Officers

Annual election of officers for Inter-varsity Christian fellowship will be held Thursday, 7:30 p. m. in Room 315 of the Union. Offices of president, vice president, secretary and treasurer will be filled. Chairman of committees will be chosen Monday evening by the four elected officers and the retiring executive members.

Phil Gustafson, outgoing president, will give a short talk preceding the election.

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