

E-Week Displays Volts and Jolts



THE MAGIC TOUCH that brightens these fluorescent lights isn't really that of Bruce Abernethy, shown holding them here. It's the thousand volts of high frequency electricity found in the column supporting the lightbulb on the left side of the picture. The power is transmitted without wires. This is a display given by the electrical engineers in Ferguson Hall.

★ ★ ★ Plaque To Be Presented Tonight

Feature of Annual Awards Banquet

The six engineering departments which participate in E-Week will discover tonight which one is the winner of the coveted championship plaque.

At the E-Week Banquet the department with the highest number of over-all points in the six areas of competition will be named.

The competition consists of separate contests in: window displays, open-house displays, E-Week banquet ticket sales, E-Ribbon sales, field day and Blue Print sales.

Window displays and open house displays are judged by Lincoln business and professional men.

Total points won in field day and the results of the selling campaigns determine the winners of the other phases of competition.

An Open House plaque and Field Day plaque are also awarded at the banquet.

Other awards will be given to individual students at the E-Week Banquet.

Gold keys are awarded to veterans of Blue Print.

The C. J. Ferguson Award is given to an outstanding senior. Other awards are the Hamilton Award and the Sigma Tau Freshman Award.

Miss E-Week, Kay Livgren, is also scheduled to be presented at the banquet and to receive a traveling trophy.



"JACOB'S LADDER" is the title of this E-Week display, set up in Ferguson Hall by the electrical engineers. Bruce Abernethy (left) is operating the exhibit as Ronald Thedens (center) and Leo Tyrrell (right) watch.

A PROTECTIVE SPACE SUIT to be worn by U.S. Navy fliers riding over 45,000 feet is demonstrated by the civil engineers. The suit costs \$6,000 and weighs 27 pounds. It is being displayed as part of the E-Week activities.

Mansion's Construction Is Featured by CE's

The bar-joist construction of the Governor's Mansion is featured in the civil engineering E-Week display.

This particular display gives some insight on why the Mansion's floors shake.

Highway Photos
A modern highway is pictured in an aerial photo display which shows the design of the highway in relation to the terrain of the land.

The civil engineers also have set up a model of a dam which is used to show the water seepage which escapes from the dam.

A concrete yard in which concrete is casted with steel has been set up.

Another display is the underground apparatus of a fire hydrant which is shown in diagrams and drawings. The purpose of this display is to explain how fire hydrants operate.

Reconstruction Priority

They also have displayed the system by which the priority of reconstruction is determined in Nebraska. This system is used to determine which roads shall be repaired.

The hydraulics laboratory has set up a model of a culvert under a road.

Two movies also have been added to the display. One is on highway construction and the other shows the Mackinac Bridge, which was recently constructed between the United States and Canada.

Egg Throw, Sack Race Compete with Beauties

E-Week isn't all displays and beauty queens.

A tug-of-war and a cross country race between students of the College of Engineering and Architecture will be held Friday at Pioneer Park.

Egg throws, a sack race, a three-legged race, a wheelbarrow race and a baseball throw are the other events of the engineer's annual field day.

Each department within the college may enter two teams in each event except the tug-of-war and the cross country

race.

Only one team may be entered for those events—five men on the cross-country teams and 10 on the tug-of-war.

The tug-of-war and cross country race are scored at 10, 7 and 3 points for first, second and third places, respectively.

The softball tournament (won by the electrical engineering department last year) is worth 20, 14 and 7 points for the top three places.

All other events are scored on a 5, 3, 1 point basis. Field day tickets cost 75 cents, which includes the price of lunch. In case of rain, the East Stadium will be used.

Lunches are to be prepared this year by the University Dames.

CE Displays Keyed to Uniqueness

The chemical engineering displays are keyed to show the uniqueness of design and operation for the needs of chemical engineers.

One display features a separation of magnetic compounds and a non-magnetic compound. The magnetic compounds cling to a magnetic pulley.

One room is devoted to the curriculum of a chemical engineer to explain to prospective students what some of the courses they will be taking will be like.

E-Week Games Wizardry Shows Talents Learned

Like games?

Try the E-Week open house! Nearly each department chose to display some of their talents in the form of a game.

The electrical engineering department devoted nearly one room to displays of this kind, characterized by an electronic Tic-Tac-Toe and target shoot.

An airplane could be directed towards a target by radar control and visitors could also make their own TV test patterns.

E-Week Shifts Program; Purpose Remains Same

Although E-Week has become an established tradition on this campus, it has not always been an annual affair.

Started in 1913 as an evening open house, the public demonstration was discontinued during the war years.

When the number of students attending college increased, the forerunner of today's E-Week was renovated.

Object
The object of the week has remained the same—to educate the public.

On that first open house, over 3,000 parents and guests were shown the classrooms and laboratories of the Engineering and Architectural College.

Among the guests were many of Nebraska's legislators, who had been especially invited to the affair.

Displays
Displays at that time were held principally in Richards Hall. They showed the theoretical and practical work done by the department rather than featuring displays.

The crowds attending the open house have swelled, during the past 46 years, from 3,000 to the 8 or 10 thousand people that now view the displays.

Zipp to Speak At Convocation

Harold W. Zipp is the speaker for the E-Week Convocation at the Stuart Theatre at 11 a.m. this morning.

Mr. Zipp, a former Lincolnite and University graduate, is the assistant to the senior vice-president of Boeing Airplane Company in Seattle.

The annual dance, at which the queen was usually presented, had been previously discontinued.

The president of the Engineering Council said of the queen, "In the past the Exposition Queens have been more trouble than they were worth."

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—Engineering Magazine— Blueprint Is 58 Years Old

The Nebraska Blueprint, the Engineering College magazine which celebrates its 58th anniversary this year, is the oldest engineering magazine in the country.

Blueprint is also the only engineering magazine to use

the offset method of printing.

The magazine was originated in 1901 and was published on an annual basis until 1911, when distribution on a quarterly basis was inaugurated. Blueprint was issued only once during World War I.

Income for the magazine comes from advertising which is handled by New York advertising agencies. The magazine has its own publications board. Carroll Novicki is the Blueprint editor.

The Blueprint also shares the distinction of being one of the founders of the Engineering Collegiate Magazine Association, which is the governing body of engineering magazines throughout the United States.

The magazine was originally modeled after the high school "annual" but evolved into a magazine covering engineering and information and stories concerning other fields of study.

Iowa Offers Traineeship Scholarships

Eight traineeship stipends for graduate study in rehabilitation counseling are available in the College of Education, State University of Iowa, for qualified students wishing to begin their work in September, according to Dean E. T. Peterson.

Traineeship awards, made available by the Office of Vocational Rehabilitation, are \$1,800 for the academic year for beginning students. After completion of two semesters, the student receives help at the rate of \$2,000 per year.

Financial support, on a prorated basis, is also available for students who continue their studies through summer sessions. These stipends are tax free. Recipients accept a moral obligation to use their education in some rehabilitation work.

Students graduating from this rehabilitation counseling curriculum receive an M.A. degree in education with a major in rehabilitation counseling. Three semesters and one summer session are usually required to complete the 38 semester hour non-thesis program.

Dr. John E. Muthard, Assistant Professor, College of Education, State University of Iowa, Iowa City, Ia., should be contacted for more information.

Quick Cakes EE Feature

Baking a cake in two minutes and turning on a light by passing your hand over a switch—these are just two displays in the electrical engineering department.

The cake is cooked by dielectric heating. The heat comes through two prongs which hold the cake in place.

The light switch display compares light switches of the present, past and near future. The most modern example, the future switch, turns on by simply passing your hand over it.

Cigarette smoke vanishes quickly with the electrostatic home air cleanser while industries save time and money with an electronic brain that solves mathematical equations.

A practical exhibit, an explanation of police radar units, concludes the double E displays.

'Bar-Joist' To Enliven Displays

Civil engineers, who boast that civil engineering expands into all phases of living, help to prove their claim with a variety of displays.

A model of an actual earth-dam shows how water passes through the dam and shows ways that seepage can be prevented.

The shaking floors in the new governor's mansion are the result of a type of construction known as a "bar-joist." A joist of this type is on display.

Other displays concern the state highway and aerial surveying.

One feature explains what prestressed concrete is, how it is made, and what the advantages of its use are.

A movie and photographs of the \$100,000,000 span which connects the two peninsulas of Michigan, and Mackinac Straits Bridge, are also shown.

Architects Feature 'Aesthetic'

The aesthetic and the functional combine to make the architectural display one of the most versatile among E-Week displays.

Models and drawings represent Nebraska's architecture of the past, present and future. The students are assigned design projects similar to those they will confront in actual practice such as schools, supermarkets and office buildings.

The designs of the buildings are complete to the last detail. In one model of a house, tiny slips of colored paper represent magazines on a desk.

Displays of modern art and sculpture show what the architectural student does as a hobby or in classes which give him credit for his particular course of study.

'Mister Roberts' Is Sunday Film

"Mister Roberts" is the featured movie this Sunday at 7:30 p.m. in the Union Ballroom.

A World War II Navy comedy, the film stars James Cagney, Henry Fonda, William Powell, Jack Lemmon and Betsy Palmer. It will be presented in Warnercolor.

The Roadrunner will star in a featured short, "Guided Muscle."

Admission is free with University identification.

Lincoln Buildings Portrayed

Architect Display Stresses History

The fame of past, present and future architecture of Lincoln is portrayed in the architect's E-Week display.

Reproduced photos were obtained from pictures in the State Historical Society and other sources to show the past architecture of Lincoln.

The buildings of Lincoln from the 1820's to about the 1920's are shown in this group. The group also includes many University buildings.

Models and paintings show the style of architecture which we may see in reality during the future.

Some of the buildings shown are ones which are being built or will be built in the near future.

Models of the Kellogg Center are included in this group. The modernistic displays feature the architecture of small houses to large office buildings and shopping centers.

The displays of the future were prepared by professional men and architectural students.

The architect's display also features their work in sculpturing, painting, sketching and ceramics.

'Cavitation' Takes Month

Display Explains 'Boiling Effect'

More than one month was spent on a cavitation display in the mechanical engineering building.

The display shows the boiling effect of water caused by reduction in the pressure of water behind a blade. This exhibits how a boat propeller will allow very little increase in boat speed although there is a large increase in propeller speed.

Explosions of accumulated dust show dangers in the home. Visitors also take home small cast iron souvenirs engraved with U of N as a remembrance of the ME building.

Open House Gets Early Attention

Letters to high schools about the E-Week Open House go out to every school in the state several months before the event.

Then those schools which are interested send back letters and the engineering department sends them information.

Many schools spend the rest of the day touring Morrill Hall, the Historical Society and the Capitol.

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