# Four Branches Soar, Roar, Knot

## ME's Headline Rocket, Hot Ore

Fire, Underwater Welding, Add to Richards Lure

fuel rocket scheduled to shoot cial fuels and lubricants. up 26 miles when fired will be one of the featured dis- The foundry will be pouring plays of the mechanical engi- molten ore into molds at 8 neering department in Rich- p.m. when M. E. students ards during the E-Week Open dressed like spacemen will be House Thursday.

Other mechanical engineer- A metal spinning display ing displays range from the will demonstrate how sheets pouring of molten aluminum of aluminum are formed into and brass to a booth answer- bowls and cups like those used

### CE Window Already Known As A Winner

the newest engineering proj- burned with a jet of cold air ects in the Nebraska area that as part of the displays on has won a national award for power. its outstandin! design will be presented in the window of

cation of the engineering fire.' principles, consists of large blue prints and various instrudisplay to show how productions and twisted considerably plane in flight with automatic the walls contain models and this type of project.

by the American Institute of cerns is set up. Many ques- Department Steel Construction to be "best tions about modern industrial Rod Clifton and Jim Weaver of show, and an outstanding developments and mass pro- report a wide variety of disexample of an abstract design duction methods should be plays for Open House for a utilitarian purpose." It was designed by Matthews and Kenan for the Northern

A booth will be set up to signed to please the general public and also to familiarize Natural Gas Company, and answer the visitor's questions on present commercial autoburgh-Des Moines Steel Com-

SKELLY SERVICE

14th & Q Sts.

"STUDENTS

**AUTOMOTIVE** 

13TH & M

1328 "P" STREET

**HEADQUARTERS'** 

A student-designed solid ing questions about commer-

Hot Ore Flows

handling the white-hot metal.

pn the dinner table.

For anyone who ever wondered how underwater damages are repaired, modern methods of underwater welding with electric arc and acetylene torch will be displayed.

A display showing one of A block of wood will be

Combustion

pipeline suspension bridge at Plattsmouth, Nebraska, and a amount of energy that can be the E-Week displays.

motive gasses and oils in the engineering mechanics, acfuels and lubricants lab. A dis-

At the entrance to Richards department. will be a 45 pound thrust pulse The first display is an iljet which was designed and lustration of how ready mix built by students.

ing molds, and how fluid flow mix concrete. is measured.

Radar Tracks Model

A window of Wells and Frost for constructing concrete department store is decorated with an unusual display by the electrical engineers. E. E. students have built a radar set and screen which picks up the path of a model plane as it enters and crosses the

LINDELL HOTEL

Counts

SALES AND SERVICE FOR THE INCOMPARABLE VOLKSWAGEN

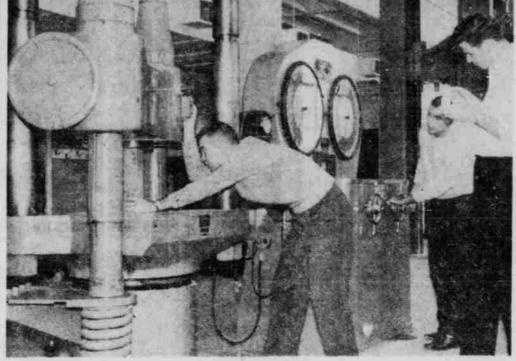
Simpson Motor Imports

121 NORTH 12TH

Sedans - Station Wagon - Commercial

Not Horsepower

Where Engineering



FRAGMENTS AWAY-Mechanical engineer Larry York, Delbert Tesar and Bob York practice for the concrete shattering exhibition for the M.E. Open House. The big testing press will be one of the Richards' students prize displays.

## EM Prowress Knots Steel

Gyro Defies Gravity in Bancroft

Other Displays

Engineering department.

The display consists of a niques used to produce the display consists of a niques used to produce the ly a hint of some of the display concrete is poured as a flat of some of the display consists of a niques used to produce the ly a hint of some of the display consists of a devices of the display consists of a niques used to produce the ly a hint of some of the display consists of a niques used to produce the ly a hint of some of the display consists of a niques used to produce the ly a hint of some of the display consists of a niques used to produce the ly a hint of some of the display consists of a niques used to produce the niques used to produce the ly a hint of some of the display consists of a niques used to produce the niques used to p replica of the Missouri River by jet engines, gas turbines in the Engineering Mechanics

background, which depicts the day fuel as propane will be crete is a flexible material draulic jacks. relation between the acad-demonstrated as the mechan-will consist of a concrete emic and the practical applicial engineers "play with block bridge with a gauge to popular in previous E-Weeks on foreign drawings. record vibrations.

ments used in the design of tion planning and plant man- without failure, steel bars will controls. agement is handled in larger be tied into knots and pulled The bridge itself was judged industrial manufacturing con- tight with a tensile machine.

play of solid metal in partial tion of the making and uses combustion promises a spec- of concrete is another of the large displays in the E. M.

concrete is made and placed. Other displays will demon- Models and pictures take the strate how wood patterns are observer through the step by made to produce metal cast- step process of making ready

"Jacked-up construction" is the subject of the next display in the series. In this method

Steel bars being tied into walls, instead of erecting small truck or car powered The combustion show will knots and gyros that appear forms, and then placing the by electricity travels on this the Gas Company by the Civil demonstrate modern tech- to defy gravity-these are on- concrete into the forms, the single rail.

Other displays include a When the concrete has beam vibrating, the course Plattsmouth, Nebraska, and a amount of energy that can be the E-Week displays. "set" the walls are tipped work covered during the small portion of the river. A released from such an every- A display to prove that coninto place by means of hymechanics, foreign and old Two displays that have been drawing sets and a display

are being shown again. One is Besides the planned disillustrations of other phases of The other is a mono-rail, a engineering mechanics.



REALLY TOUCHY -Vaugh Nelson, senior in ag engineering, twists knobs on a device so sensitive that it can measure the strain the weight of

the book places on the front end of the tractor. The strain gage is part of the AgE E-Week Open House Display.

#### ChemE

## Dyes, Plastics, Fill Avery Lab

made which can be used in on to a 20 minute detergent so many different fields which bath. used wood, glass, metal or Upon completion of all the to the public attending the paper only a few years ago? steps, the cloth will emerge E-Week Open House. How a e aluminum tumblers, with a tri-color pattern and trays and pitchers dyed with no spots or stains. such color and brightness?

Scaled Displays

Although the chemical engi- batch process. neer's objective is to develop and control apparatuses which make chemical processes apects had to be scaled down to polymerized molecules. illustrate certain points.

cloth into a three color pat- sired properties.

The cloth will be scoured The anodizing process will and bleached, then put into a be used to show how alumisolution of dye fixate and num can be successfully acid. The solution and cloth dyed. Electroplating of the are heated for ten minutes at 140 degrees, then the cloth will be lifted and the three clude the plating of individual dyes will be added. After the cloth is reheated in the new

LINCOLN, NEBRASKA

How is cloth dyed evenly solution for one and a half tions will be added together and without stains in indus- hours at a temperature slight- and in thirty seconds they will trial weaving? How is plastic ly over 200 degrees, it will go turn blue. All of the displays will be

The Plastics Industry will The chemical engineering be represented by a demon- Plans May Meeting department will answer these stration of the making of The Nebraska State Historand other questions through thermal plastic. Although in ical Society will hold its 1958 I small scale demonstrations at industry the plastic is made spring meeting at Fairbury. its E-Week Open House dis- with a continual flow, the Neb., Sunday, May 4. chemical engineering display Harold H. Dunham from the

The making of the plastic Communication Extraordininvolves the combination of ary" at a noon luncheon. plicable to industry, the dis- phenol and formaldehyde plays will be more a matter with the aid of a sodium hyof chemistry since the proj. droxide catalyst to form

Control of temperature, Selective dyeing of cloth time of reaction and concenwill be shown in a demonstra- tration of the catalyst can be tion of dyeing acrilan and 16 used to give the plastic de-

Aluminum Dying

metals will also be shown.

The display may also insouvenirs for the public. Other displays in the chem-

cal engineering display will include chemical experiments which will show the properties of chemicals.

An example of a property experiment is the "clock reaction." Two colorless solu-

Want Some Good POP CORN?

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POPPER

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GOOD TO THE LAST POP

## explained in simplified terms

Historical Society \$1.25

will show it made through the batch process.

University of Denver, will speak on "The Pony Express:

Following the luncheon, a historical tour of the Rock | Creek Station about seven miles Southeast of Fairbury I is planned.

## Offered By AgE's Big Roar on Campus Will Be Grain Dryer

Intelligence Tester

Have you ever wondered that do this are called "irhow smart you are?

One of the Agriculture Enhave an electric question a dynamometer and a flow box set up in their display gauge. A carburetor will be area in the Selleck parking set up to show how to get

ly by telling if your answers are right or wrong.

Big Roar

The roar which will be dryer. The dryer will include a 375-bushel capacity bin. The device will be active by the capacity bin. The device will be operated from a tractor power take off with will show through displays the air blast heated by a pro- and demonstrations the impane flame.

moisture in the soil and tell ture through the use of engithe rate the water moves neering.

### Window AgE Eats Knowledge

downtown, an unusual agri- Stone, will be the Architecture cultural engineer is being fed window's center of interest. an unusual diet.

are represented by simple machines such as wheel and axle, inclined plane, screw, lever-and by the basic engineering formulas.

mind on another vertical belt in the display. The use of principles and the engineers in the form of modern farm-

Committee for the Ag E's Nelson, Charles Grady and John Reitter. Phil Kester.

#### ChemE Window Looks at Progress

Progress for Nebraskans" is the theme of the chemical engineers' window display located in a window of Gold's department store.

Scale models of two important growing industries showing the recent advancement made by chemical engineers for the welfare and growth of Nebraska are shown. These scale models are connected to the central theme by connecting signs which explain these models and their purpose.

## STUDENTS: Clip This Coupon

. . . it entitles you to the special rate of

CAR WASH

on Tuesdays, Wednesdays & Thursdays JET CAR WASH

2222 "0" You must present this

## While enjoying E-Week, Stop at



TOPPER Hamburger

Now, 4 Locations 19th & O 1340 North Cotner 3935 South 330 No. 13th St.

You Are Always Near Kings

rometers" and "irrigators."

Maximum fuel economy will gineers' displays is designed to help you find out. They will be shown through the use of the most out of a gallon of The box can test knowledge gasoline in an internal com-in various fields electronical-bustion engine.

Other displays include a ra-dio controlled tractor, weight transfer demonstrations and stration.

Weight transfer will be heard on campus during E- measured by the application Weck is the portable grain of strain gauges to the front

The agriculture engineers' provements and aids which Devices to measure the have been made in agricul-

## Architects Show Embassy

A model of the U. S. Embassy in New Delhi, designed In the window of Hardy's by Architect Edward R.

The building an example of There, the silhouette of an the love which architecture Ag E is being fed (into the holds for man, consists of a mind) the basic principles of delicately thin concrete roof, engineering. These principles pierced concrete screen, and reflective pool.

A small mobile consisting of a sketch by Leonardo DaVinci on the proportions of the hu-The products of the basic man body in relation to architecture, will also be included mannequins surrounding the model will heighten the effect.

The chairmen for this disconsists of the chairman, Leon play are Jeff Vandeber and

#### French Film Tonight

The French film, "Wages of Fear," will be presented by the 1958 Film Society tonight at 8 p.m. at the Nebraska Theater.

### "NU's GOOD RIGHT ARM"

Word that the University of Nebraska Foundation assets have increased more than a quarter of a million dollars in 1957 is good news.

This brings the total assets of the Foundation to a respectable \$2,417,712 figure. Total new funds of the foundation received during 1957 totaled \$676,048.

This made last year the best in the 22-year history of the organization.

Its program supplied funds for research projects, scholarship and grants in aid, fellowships and issistantships, improvement in museum exhibits, specialized research equipment, judging teams expenses, faculty support, lectureships and teaching awards.

One of the fine things about the Foundation's work is that it makes possible activities and improvements that could not otherwise come about and lends stability to the long-range growth plans of the Uni-

The Foundation is the University's good right arm, making possible more intensive efforts in the fields for which universities exist.

Under the tested leadership of John K. Selleck who will serve as president for the next two years, the Foundation is assured of expanding the fine record it has made in the past.

From an editorial in the Lincoln Journal

### U of N Foundation

106 Love Library Lincoln, Nebraska