

# THE DAILY NEBRASKAN

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## PRIZES AWARDED FOR RECORDS IN COLLEGE GRADES

A. S. C. E. Gives Handbook to Don Young for Greatest Percentage Increase in Scholarship.

### BERTWELL WINS MEDAL

Henningson Speaks at Special Convocation Held at Temple to Announce Annual Awards.

Prizes were presented by Sigma Tau and the American Society of Civil Engineers to William Bertwell and Don Young at the special convocation in the Temple theater yesterday at president of the Henningson Engineering eleven o'clock. Mr. H. H. Henningson, engineering company of Omaha, spoke. Grant Lantz, president of Sigma Tau, presented a picture of Herbert Hoover, executive and mining engineer, to the College of Engineering and it was accepted by Dean O. J. Ferguson in behalf of the college. Almost every seat in the room was taken.

The Sigma Tau prize, a bronze medal, was presented to the sophomore engineer who best met the three standards of Sigma Tau—during his freshman year—scholarship, practicality and sociability. Bertwell's average for the freshman year was 95.4. Don Young presented the medal.

Don Young received an engineers' handbook from A. S. C. E. for having achieved the greatest percentage increase in his scholarship last semester over the preceding semester in school. His average for last semester was 16.28 per cent higher than for the preceding semester. The next man showed an increase of 10.34 per cent. The committee that investigated found that most of the men had suffered a decrease in their averages last semester, and that the decreases were usually large, and the increases small. The handbook was presented to Young by George Burleigh.

Mr. Henningson was introduced by Dean Ferguson. He emphasized the fact that the world is not cold and cruel, but that there is a law of compensation that is as immutable as Newton's laws of gravitation.

"What becomes of all the engineers our colleges and universities are turning out?" is a question that Mr. Henningson said he had often heard asked. "I have heard the statement that more engineers were being turned out than were needed," Mr. Henningson stated, "when just the reverse is true. Manufacturers have learned that in order to succeed they must give to the public a little more than their competitors. In order for the manufacturers to turn out better products at lower prices they must have efficient methods, careful selection of material, and labor-saving devices.

Essentials for success were outlined by Mr. Henningson in detail. "Health is the first requisite for success. You often hear of men who have worked themselves to death. In all my engineering experience I have never known a man die of hard work. They die because they don't keep themselves physically fit."

Choosing a life work you like was the next essential that Mr. Henningson named. He once asked the president of a certain company what he thought the most important part of success was, and received the answer, "That's easy. Just go out and get into a line of work in which you can work your fool head off and it seems like play."

The ability to work in harmony with one's fellow workers was named as the next requisite. One of the most brilliant engineers Mr. Henningson ever saw, he said, could not advance because of this failing.

Business ability was next on his list. "Don't spend any of your client's or your firm's money unless you are sure that the enterprise is commercially sound," he cautioned. Mr. Henningson then commented on the dispute at the capitol.

"We believe absolutely in Mr. Goodhue's ability as an engineer. We do not question his integrity. There is no doubt, that he could have so written the specifications that competition would have been keener, and the state would have been saved a considerable sum. Mr. Johnson attacked Mr. Goodhue's integrity."

## Technical Student Compiles Brief Record of Members of Faculty of College of Engineering

"Is the faculty of a college an integral part of that college?" asked the insipid student who is a member of the Centurions of the Cohorts or of the "Vestals of the Torch" of some funny-sounding organization.

"Of course, stupid," answered the engineer, with amusement, and to prove it one of them has succeeded in getting a brief record of every member of the faculty of the College of Engineering. This is it.

Chancellor Samuel Avery, Ph. D., LL. D., is the recognized head of the University and, consequently, of the College of Engineering. He was born in Lamolite, Illinois. Doans College at Crete gave him his A. B. in 1887. His B. Sc. came from Nebraska in '92 and his A. M. in '94. Then the Chancellor went to Heidelberg and won his Ph. D. in '96. Later he received the honorary degree LL. D. from Doane and the University of Idaho. For three years after he left Heidelberg, Mr. Avery was adjutant professor of chemistry at Nebraska. From '99 to '01 he was professor of chemistry and chemist at the agricultural experiment station at the University of Idaho.

Then he came back to Nebraska as professor on analytical and organic chemistry. From '02 to '05 he was professor of agricultural chemistry and chemist in the University of Nebraska experiment station. In 1905 he became head of the chemistry department and held that position to 1908 when he was acting chancellor for a year. Since May, 1909, he has been Chancellor Avery of the University of Nebraska. The Chancellor is a fellow in the A. A. A. S., and member of the American Chemical Society, of the Deutsche Chemische Gesellschaft at Berlin, of Phi Beta Kappa, and of Sigma Xi. He was a joint author of a chemical text and has himself published many bulletins on chemical subjects. He was a member of the United States International Conciliation Commission with Sweden in 1914 and 1915. "Who's Who" says he is a "popular lecturer on educational topics."

Carn C. Engberg, Ph. D., executive dean and professor of applied mathematics, was born in Hyttan, Sweden, Nov. 13, 1872. His father was at the time manager of an iron smelter that

was later bought and closed up by a big trust, so Dean Engberg was connected with engineering from the first. He received his B. Sc. in '95, A. M. in '97, Ph. D. in '99, all from Nebraska, and was elected to Sigma Xi in 1898. Since his graduation he has been professor of applied mathematics at the University, dean of men, and executive dean. He has written a number of articles on mathematical and statistical subjects and is the recognized chess champion of Nebraska.

Oskar Edwin Edison, M. Sc. in E. E., assistant professor of electrical engineering, was born at Gothenburg, Nebr., and received his degrees from the University of Nebraska, B. Sc. in E. E. in 1914, M. Sc. in E. E. in 1915. He is a member of Sigma Tau, Sigma Xi, and A. I. E. E. From 1915 to 1917 he was employed in the operating department of the Commonwealth Edison Company of Chicago. Since 1917 he has been teaching at the University of Nebraska.

The remainder of this record will appear in the Thursday issue of the Daily Nebraskan.

## WINDOW DISPLAYS ARE NOW IN PLACE

Exhibits at Miller & Paine and Mayer Brothers to Run Until Thursday.

Downtown window displays advertising Engineers' Week were in place Monday morning at Miller & Paine's at Thirteenth and O streets, and Mayer Brothers, at Tenth and O streets. They will run till Thursday.

Cash prizes are offered for the best guesses as to how many pounds force will be required to pull apart the one and three-eighth inch steel bar in the window of Magee's at Twelfth and O streets, and as to how much the middle eight inches will elongate. Guesses may be left at Magee's until 6 o'clock Thursday. The test will be run in the civil engineering testing laboratory in Mechanic Arts hall at 8:30 o'clock Engineers' Night. The prizes, fifty cents each, will be awarded then.

In the Miller & Paine window stands a two-ton ammonia compressor unit of a Baker Ice Machine, the rough castings of which were presented to the mechanical engineering department of the College of Engineering by the Baker Ice Machine Co. of Omaha, and finished in the machine tool laboratory by students. A mummy whose hair rises and lies down at will draws attention to the display. Instruments from the metallurgy laboratory are also in the window.

A wooden model of a blast furnace adorns the show window of Mayer Brothers. A valuable dynamometer from the College of Agriculture is exhibited. The connecting rod, valve, and gears for a Corliss engine being constructed in the machine tool laboratory by students are in the show case. There is also a photograph of the largest plate-girder bridge in the world, designed by a Nebraska graduate.

These exhibits will be run until Thursday afternoon when they will be dismantled and the materials returned to the University for Engineers' Night. The men in charge of the various parts of the displays are: Donald Overhold, general chairman; Joy Phelps, mechanical engineering; Merle Rainey, electrical engineering; Don Young, civil engineering; Carroll Diller, chemical engineering; Sam Krechetsky, architectural engineering; and Orpheus Palk, agricultural engineering.

The perpetual motion machine that was on display in Miller & Paine's window last year during Engineers' Week, was in the window of the Nebraska Power Co., at Omaha the whole of last week. It was planned to take an exhibit to Beatrice, but for unknown reasons this was not done. The perpetual motion device is not yet patented, the inventors announce to frighten would-be patent breakers, because of small mechanical imperfections. These are being rapidly removed, however.

A principle keeps the pacifist from fighting, but the militarist is quieted only by the interest.

**To the Engineers:**  
In behalf of every Ag in the University we wish to extend to you our heartiest wishes for a happy Engineers' Week and a successful Engineers' Night.  
The Farmers' Fair Board,  
ELTON LUX, Mgr.

## "Handcraft" Will Be Subject of Lecture

"Handcraft" will be the subject of the second lecture in the series of three now being sponsored by the social service committee of the Y. W. C. A. for the benefit of women who will have charge of girls' groups next summer. Miss Mabel Dobbs has been secured to talk on this subject Thursday at 5 o'clock at Ellen Smith Hall. All women interested in this training course are invited.

"Hikes and Week-end Trips" was the subject of the meeting last week. "Nature" will be the topic of the last lecture on Thursday of next week.

## Gage Accepts Position on Chautauqua Circuit

Burford Gage has resigned as captain of the University Band in order to accept a position with Harrison-Redpath in chautauqua work. Grove Bixby has been appointed as drum-major and captain, and he will serve the rest of the year.

Fred Colby is also leaving the band to do chautauqua work. New men selected for the band are B. Bonewright, drums; Wells Daly, trumpet; Maurice Henderson, trumpet.

**Attention Cadets!**  
Parade and Review will be held at 5 o'clock today in honor of representatives of Reserve Officers, American Legion, Veterans of Foreign Wars, and Spanish War Veterans. All cadets are requested to report in uniform unless properly excused.

## "The Home of the Cornhusker"

By FRANK J. MOLES  
In Charge of University of Nebraska Radio Station

Radio station WFAV, owner and operated by the University of Nebraska is situated in room 110 of the Electrical Engineering building. Nearly everyone on the city campus is familiar with the big cage antenna which stretches from the tower of "U" hall to the power house smoke stack. This antenna is about 100 feet high and is used for both transmitting and receiving.

The transmitter was assembled from standard parts by senior electrical engineering students. It consists of two 50-watt oscillator tubes, two 50-watt modulator tubes and one 5-watt speech amplifier tube. The rated output of power to the antenna is about 100 watts—the same amount used in a large Mazda house lamp.

Power to run the transmitter is secured from a half-horsepower, 1,000-volt, direct-current generator driven by a

one-horsepower motor operated by an eighty ampere-hour storage battery in the laboratory. This makes the set very dependable because it is not necessary to have the power plant running to get high voltage.

The normal day range of the set is about 200 miles and the night range is about 500 miles, although under good conditions the signals have been accurately reported from both coasts. Reports have been received from thirty-seven states and several parts of Canada. Two-way phone conversations have been carried on with stations in Dallas, Chicago, Roswell, Oklahoma City, Denver and other nearby places.

The voice may be transmitted directly from the station room or may be brought by land telephone lines from the library or other buildings (Continued on Page Four.)

## ENGINEERS ARRANGE BIG ANNUAL CELEBRATION FOR REST OF WEEK

Parade of Entire Personnel of College Through Business Section of City Thursday Noon—Displays for Engineers' Night, Formal Open House, to Be in Six Buildings.

COACH SCHULTE TO TALK PEP TO TECHNICALS TODAY

Field Day Friday and No Classes—O. J. Fee to Be Toastmaster at Banquet Friday Evening—Dance Saturday Ends the Festival.

Engineers' Week—the thirteenth—is here. Today at eleven o'clock Coach Schulte speaks at the "pep" meeting in the Armory; Thursday comes the parade and Engineers' Night; Friday is field day—no classes—closing with the banquet; the dance, Saturday, ends it. Window displays appeared Monday, and a special convocation was held Tuesday. Herman M. Klentchy, senior mechanical engineer, is general chairman in charge of the week.

### Publicity Day

All engineers are to wear the badge of their college, the white ribbons with a blue "E-23" today, publicity day. Henry Gargent, president of the student chapter of American Association of Engineers, will preside at the meeting in the Armory today. There will be yells led by Sargent and Hendrickson, and music, and then "Indian" Schulte will speak. The blue and white Engineers' flag attracts attention to "U" hall by day, and by night the electric sign "April 26" reminds the city and the co-eds at the library that Engineers' Night is coming. Slides are being shown on the screens of Lincoln theaters; news items have been sent to almost every newspaper in the state. Every night an invitation to Engineers' Night is broadcast from the radio station. E. Wonder Norris is chairman of the publicity committee, and its members are E. K. Learning, Arthur F. Lof, E. K. Healy, Donald Overholt, and William Bertwell.

### Parade

A float built by each department of the college is to appear in the parade that leaves the Mechanical Engineering building at noon Thursday for the business district. An Engineers' band under the direction of William Rabe will march with the floats and tractors. The faculty members of the college are to join in automobiles, the students following afoot. L. G. Foxwell is general chairman for the parade. Men in charge of the building of the floats are: Carlson, mechanical; Carl Tefft, agricultural; Smith, architectural; Newell Freeman, chemical; George Taylor, civil; Edgar Safarik, electrical.

### Engineers' Night

The twenty-eighth annual Engineers' Night begins Thursday at 7:30 when all engineering buildings, the Armory, and Chemistry hall will be thrown open. All laboratories will be open and all machinery and equipment in operation. The program in short is:

8:00—Chemical show, lecture room, Chemistry hall.

8:30—Metal pouring, foundry, M. E. building.

9:00—Radio concert, Armory.

9:00 to 10:00—Moving pictures, lecture room, Chemistry hall.

10:15—Chemical show, lecture room, Chemistry hall.

In detail, the displays of Engineers' Night are:

**Chemical Engineering.**

Chairman, T. C. Chevront. In Chemistry hall:

Third floor—Physical and analytical chemistry laboratories; experiments will be conducted during the evening.

Second floor—Organic, advanced and elementary, chemical experiments in laboratory; colloidal exhibit; thermostat room; research laboratory and experiments.

First floor—General chemistry laboratory. At 8:00 and 10:15 there will be chemical shows in the general lecture room—thermite experiments, a miniature volcano, a carbon-dioxide snowstorm; meanwhile moving pictures of industrial processes will be shown.

Basement: Industrial research and industrial consulting laboratories; fine balance room; assay and oil and gas laboratories.

**Electrical Engineering.**

Chairman, E. R. Safarik. In Electrical Engineering laboratories. General power laboratory, all electrical

equipment in operation; low-voltage transformer; high frequency flashover tests on commercial insulators; safety first exhibit; radio station in charge of Mr. F. J. Moles; manual and automatic telephone switchboards.

In the Armory—Electrical appliance display; radio concert in chapel at 9:00.

**Mechanical Engineering.**

Chairman, T. G. Kimball. In the Mechanical Engineering laboratories.

First floor—Machine tool laboratory (where commercial machines are built by students, study of production methods, steam engine in the making; power laboratory; foundry. All machines will be running in the power laboratory and tests will be run on some of them. There will be a complete power plant in operation running a lighting circuit.

Second floor—Woodworking and pattern-making laboratories; fuel and lubricant laboratory with standard testing equipment in operation.

8:30—Metal pouring in the foundry. The copula furnace will be started at 8:15 and the charge of 2,400 pounds of metal run at 8:30.

Basement—Thesis experiments carried on by senior mechanical engineers; metallurgy laboratory.

**Civil Engineering.**

Chairman, G. H. Taylor. In Mechanics Arts hall—Material testing laboratory; bituminous and non-bituminous road materials laboratories—methods of testing materials. Concrete beams and blocks will be broken and heavy metal rods torn apart. Working models of canals, dams, drainage systems, and drawings of steel and concrete designs will be on display.

In the Armory—Surveying and other civil engineering instruments; plans and drawings of city planning.

**Architectural Engineering.**

Chairman, R. H. Smith. In the Mechanical Arts hall—Models of architectural design; renderings and plans drawn by students.

**Agricultural Engineering.**

Chairman, C. A. Tefft. In the Armory—Laboratory equipment; examples of wood and metal work; complete model farm.

**Geology.**

Chairman, E. E. Sorenson. In the Museum—Model oil field and well built by students in the Department of Geology; the entire museum will be open. Students in the geology department will be present ready to answer questions.

**Engineers' Trip Booth.**

Chairman, George Burleigh. In the Armory—Collection of photos and reports on engineering trips taken by Nebraska engineers.

The University power plant which supplies heat and power for the entire campus will be open for inspection.

**Field Day.**

All engineers will meet at the Mechanical Engineering building Friday at 9:00 and will leave in a body for the campus of the College of Agriculture. Gerald Gray is in charge of the day. Two baseball games will be played in the morning. Freshmen (Ted Page, captain) vs. Juniors (Gerald Gray, captain); and Sophomores (Francis Boucher, captain) vs. Seniors (Paul Kruech, captain). Lunch is to be taken at the farm cafeteria and then the championship baseball game will be played. Then come a level race, a slide rule race, track events, boxing matches, tennis and horse shoe games. There will be a refreshment stand open during the day.

Lawlor Sporting Goods Company is offering a baseball glove to the man who shows up in the 100-yard, the three-legged, and the sack races. The College Book Store is offering ten dollars in trade to the winner of the slide rule race. O. J. Fee of the Evans Laundry is offering five dollars to each man of the party winning the level race. There may be a potato race for the professors, but the chairman isn't sure yet.

(Continued on Page Four.)