

# SOCIETY

Many Greek letter groups have installed their newly elected officers while many others will complete their installation ceremonies within the next few weeks. A number of the graduating officers are being honored at teas, dinners and lunches.

### Kappa Alpha Theta Installs New Officers.

Installation of officers at the Kappa Alpha Theta house was held Monday evening. Helen Drummond is the new president; Zetta Johnson, vice president; Elizabeth Burdick, secretary; Julia Koester, corresponding secretary; Eleanor Byers, editor; Willie McHenry, treasurer, and Martha Evans, house manager.

### New Officers Elected By Alpha Omicron Pi.

Lucille Hendricks was elected president of Alpha Omicron Pi at the meeting Monday evening. Other officers for next year are Doris Heuman, vice president; Helen Harrison and Allene Muma, secretaries, and Ruth Dunning, treasurer.

### Arthur Guthrie To Wed On Thursday

Interesting on the campus will be the wedding of Miss Clara Ringberg to David City to Arthur Guthrie Thursday afternoon at 3 o'clock at the home of Rev. W. F. Bancroft who will perform the ceremony. Lloyd Watt will act as best man, and Miss Ringberg has chosen Mrs. Emma Baker as her matron of honor. Miss Ringberg is superintendent of a hospital in David City. Mr. Guthrie is a sophomore in the university, and is assistant pastor at the Temple Baptist church, where R. V. Bancroft serves as pastor. Mr. Guthrie will continue his studies.

### New Delta Gamma Officers Are Sworn In.

Officers of Delta Gamma elected for the coming year were installed Monday evening. They include Jean Rathburn, president, and Betty Harrison, vice president, both of Lincoln; Elizabeth Reimers of Grand Island, recording secretary; Dorothy Meyer of Omaha, corresponding secretary; Rachel Branson of Lincoln, chapter treasurer;

## Social Calendar

### Saturday.

Delta Sigma Phi Sallor's Ball at the Cornhusker hotel. All University party at the coliseum.

### Sunday.

Alpha Theta Chi dinner at the chapter house. Catholic students club breakfast at the Lindell hotel.

Kathryn Aten of Omaha, house treasurer; and Mary Riepma of Kansas City, Mo., editor. Alpha Phi initiation Ends With Banquet.

Alpha Phi initiated the following girls Saturday morning. Mildred Stenton, Carlotta Davis, Carlene Steckleberg, Esther Kirk, Lincoln; Ruth Byerly, Estes Park, Colo.; Frances Cameron, Tekamah; Katherine Carter, Albia; Dorothy Gifford, Huron, S. D.; Hester Hunt and Evelyn Kaasch, Scottsbluff; Herma McMahon, Superior; Marjorie Breen and Marjorie Quivy, Omaha; Gladys Oman, Red Oak, Ia., and Melva Scudder, Central City. An initiation banquet was held at the chapter house Saturday evening.

### Big Sister Board Fetes New Officers.

Twenty-two new officers and members of Big Sister board were honored at a dinner last night at Ellen Smith hall. The decorations, which were planned by Gertrude Clarke, carried out the Easter note in the Easter plate cards, yellow streamers suspended above the table, and baskets of spring flowers. Installation of officers immediately followed the dinner.

### Delta Zeta Selects New Chapter Heads.

Delta Zeta elected the following officers Monday night: Evelyn

O'Conner, president; Doris Magnuson, vice president; Mildred Overholser, recording secretary; Claribel Kiffen, treasurer; Maxine Wollbrandt, assistant treasurer; Helen Runkle and Luella Geyer, guards; Laura Geyer, parliamentarian. The officers will be installed at the meeting next Monday night.

Mrs. E. W. Lantz, Mrs. Anna Taylor and Miss Blanche Austin were dinner guests at the Delta Zeta house Monday.

At its regular meeting held on Monday evening, Delta Sigma Lambda elected Reginald Miller, of Lincoln, as its president for the ensuing year. Other officers are: Wayne Owens, vice president; recording secretary: Arch Stinson, historian, Dan Easterday; marshalls, Jerry Madden; and sentinel, Rodney Phillips.

## SCIENCE OVERCOMES PROBLEMS OF SPEED

### New Type Streamline Cars Predicted for Rail and Interurban Use.

One drop of falling water is showing engineers and scientists how to revolutionize the shape of trains, locomotives, interurban cars and other high speed vehicles. That drop of water helped them to work out the present designs for Zepelins, for airplane wings, for racing automobiles. The same principles are now being applied to train design, and, recent announcements by Dr. Oscar G. Tietjens of a national manufacturing company indicate that the dawn of a new day in locomotive and coach construction is about to break.

Demands for higher speed have been growing more and more insistent. Particularly in this country, with its long distances and its speed minded population, any improvement in the speed of transportation would mean a real help. Therefore when Dr. Tietjens joined the staff of the company he soon realized the great possibilities of applying aerodynamics to

## BECK'S ORCHESTRA TO OPEN AT PARK



Leo Beck and his orchestra open at Antelope park tonight. This begins their series of nightly broadcasts over KFAB which will last thruout the spring, summer and fall seasons.

the extremely important field of transportation.

### Wind Tunnel Used.

More than a year ago the work was started by building a wind tunnel for testing models of present type trains as well as those of the streamline pattern. Dr. Tietjens' background of experience in the development of aircraft and in racing car designs, gave him much valuable data and knowledge of the problems to be encountered. The special work in aerodynamics, which had won for him the degree of doctor of philosophy from the University of Goettingen and experience during more than six years as an associate of Dr. L. Prandtl had given him a thorough working knowledge of the principles of air resistance.

Former tests of other types of equipment prompted his belief that total train resistance could be reduced one-half and wind resistance to one-third for certain types of rail equipment at high speeds. If this should be accomplished, the necessary speeds could be obtained with less power consumption and better transportation service would then be available at a lower operating cost. Train resistance is made up of

mechanical friction in the car journals, plus wind resistance. When the present type of light interurban car is moving forty miles an hour wind resistance is almost 50 percent of the total resistance. When its speed is increased to 80 miles an hour the wind resistance has become more than 75 percent of the total train resistance.

In a series of tests with models of present type and streamline cars in winds of varying velocities up to 80 miles an hour, Tietjens has worked out some startling conclusions, and the results are believed to be correct and exact to a very close percentage.

In the case of a heavy locomotive and two heavy coaches, streamline design saves 13 percent of the required total horsepower for a speed of 35 miles an hour and 32 percent of the total

horsepower required for a speed of 75 miles an hour in present equipment of similar weight, according to tests made in the company's research laboratories.

It requires 286 horsepower to drive the present type of light interurban car 80 miles an hour. Tests made in the company's wind tunnel indicated that the same type of car in the streamline design can be driven 80 miles an hour with only 140 horsepower, thus saving 146 horsepower. Even at 35 miles an hour, streamlining

will save 30 percent of the horsepower required for the present type of car.

### Remodeling Cars.

From these results, Tietjens concludes that streamlining will be worthwhile for medium and high-speed, light interurban cars and for heavy high speed trains. From this entire program of activity, it is expected that new styles in high speed cars and trains revolutionary in character and appearance as well as notable for their efficiency and economy of operation, will be developed. This is the age of speed and the tests of Dr. Tietjens in the company's laboratories open up a new field of thought on the possibilities of operating trains and cars faster than at present without increased energy or fuel requirement.

### WILL CLOSE CAFETERIA.

The agricultural college cafeteria will be closed Easter Sunday, according to Miss Bernice Elwell, director.

## Iowa State College Enrollment Jumps 100

AMES, Ia.—Enrollment for the spring term of Iowa State college had reached 3,553 Thursday evening, an increase of thirty-five over the corresponding day last year, according to an announcement from the registrar's office. Teams still out of town enrollment is expected to pass last spring's mark by about 100. Class work started Thursday morning. With the glee club and athletic



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# Wednesday Evening

# Opening



Tonight 8:30 P. M.

Photos by Macdonald.

Upper row, left to right: Morrell Doran, banjo, violin, musical supervision; Eugene Spellman, saxophones; Everett Beckman, trombone, entertaining; Lower: Beckman, Johnson, Chambers, Beck's singing trio.



Photos by Macdonald.

Upper row, left to right: Bernard Wahlén, bass, entertaining; Kenneth Vansant, trumpet; Kenneth Nielsen, saxophones; Hal Kennedy, saxophones, arranging; Milton Wieland, trumpet; J. B. Chambers, percussion, entertaining; Lyman Johnson, director, entertaining, radio programmer.



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