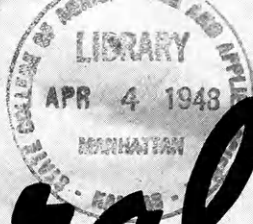


THE KANSAS



COPY 1

Agricultural Student



MARCH • 1948

Careers at GENERAL ELECTRIC

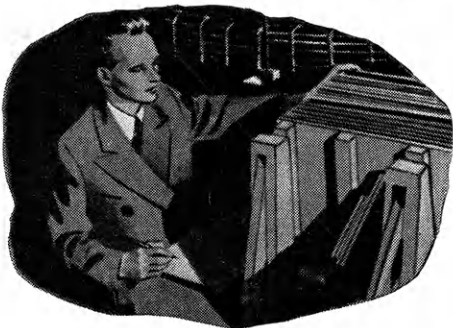
PHYSICIST . . . CHEMIST . . . ENGINEER

for each, General Electric has assignments to his liking

General Electric is not one business, but an organization of many businesses, ranging from the building of giant turbines at Schenectady to the molding of plastics in Pittsfield. The 165,000 people of General Electric work

in 93 plants in 16 states. Graduates of American colleges and universities are finding that General Electric offers opportunities to all degrees of specialists, all sorts of enthusiasms, all kinds of careers.

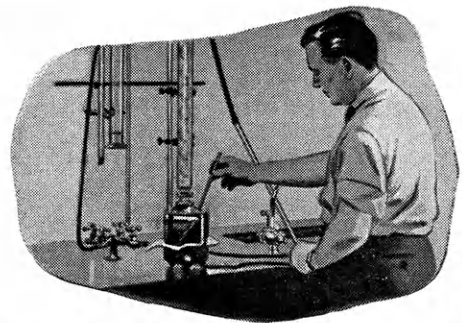
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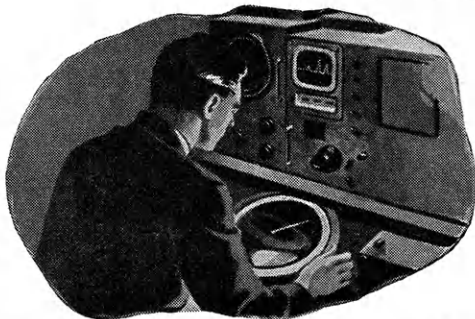
As the result of its research in nucleonics, General Electric was asked by the Government in 1946 to take over operation of the giant Hanford Works, one of the major units of the Manhattan Project. With this development, and with the construction of both a new Atomic Power Laboratory and a new Research Laboratory at Schenectady, opportunities in all phases of nuclear research have increased enormously. Herbert C. Pollock (left), one of the first scientists to isolate U-235, works now with such electron accelerators as the Betatron and Synchrotron.

CHEMIST

General Electric is the largest molder of finished plastics parts in the world. It has also played a large part in the development of silicones, new chemical compounds from which a whole new industry is springing. Developments like these have meant unprecedented opportunities for chemists and chemical engineers at General Electric. Dr. J. J. Pyle, graduate in chemistry at British Columbia and McGill, became director of the G-E Plastics Laboratories at the age of 29.



ELECTRONICS SPECIALIST



For good reason, General Electric Electronics Park has been called the "Greatest Electronics Center in the World." Its 155 acres look like a campus. Its laboratories, shops and production lines are the most modern of their kind. It's a Mecca for men whose attentions perk up at the sight of a circuit diagram—men like Dick Longfellow, who has worked his way up through television and high-frequency assignments and is today section engineer in charge of ground radar equipment.

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THE KANSAS
Agricultural Student
 KANSAS STATE COLLEGE
 OF AGRICULTURE AND APPLIED SCIENCE
 MANHATTAN, KANSAS

On the Cover--Maureen
 Likes Consumer Angle

By MELVIN COTNER

To many of us, ice cream is only a food; but to little 4-year-old Maureen Manuel ice cream is really a treat, and to watch it in the process of freezing is another delight. Consumption rather than manufacture is really her main interest, though, as you can plainly see.

Young Maureen is the daughter of Mr. and Mrs. Milton L. Manuel, 626 Kearney, Manhattan. Mr. Manuel is an instructor in the Department of Economics and Sociology. He is in charge of the analysis of farm record books for the Farm Management Association.

The picture was taken by Harold Ray, Ag Student photographer, in the Kansas State College creamery located in the basement of West Waters Hall. The picture was snapped as Val Ziegler, manager of the creamery, was emptying the batch freezer and little Miss Manuel was looking intently at the process while eating some vanilla ice cream.

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MARCH, 1948

No. 3

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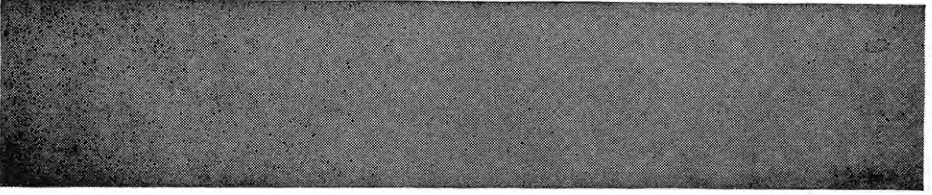
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New Student Loans
 Aid Farmers-To-Be

Students in the School of Agriculture who definitely intend to farm in Kansas can now be assured of being able to meet financial emergencies while in college.

Recently a sum of money was deposited with the K. S. C. Endowment Association under terms that are surprising for their simplicity and brevity. The statement accompanying the gift follows: "Please see that this fund is used for financial aid to students of agriculture who intend to engage in active farming in Kansas."

It is clear that the fund is to be used only for student assistance while the recipient is in college.

The fund is being administered by Dean R. I. Throckmorton. He has been requested by the donor not to reveal the name of the person making the gift. The dean is to set up terms and conditions under which loans may be made.

Tentatively it has been decided that loans without interest will be made to students who qualify, but with the understanding that the interest rate will be 4 percent from date of graduation, or from date of discontinuance of college work. Under extenuating circumstances, an outright grant could be made from the fund.

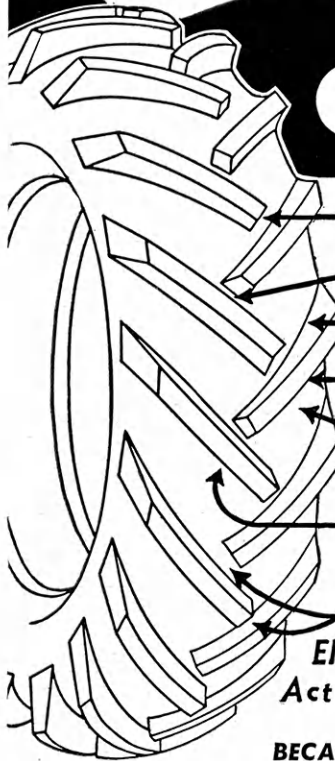
C. W. MULLEN

The gross income from chickens, eggs, turkeys, and broilers passed the \$3 billion mark in 1945.

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Ags Fit, Show for Prizes At Little Royal, April 10

By BOB STEELE

If you are interested in obtaining some pointers in fitting and training show animals, just take a trip to the barns and corrals at Kansas State College some evening or Saturday afternoon between now and April 10. You probably will see one or more amateur showmen washing hogs or trying to break their steers to lead. They're getting ready for the first Little American Royal to be held since 1942.

The Little American Royal was inaugurated in 1924 as a replica in miniature of the great midwest livestock show held in Kansas City in October. The show was held in connection with Farm and Home Week which was sponsored by the extension division of the College. The show part was managed by the Block and Bridle Club and the KSC Dairy Club. Originally the event was only a show, but in 1927 it was changed to provide for competitive student participation. The students were judged 50 percent on the progress made on their animals from when the training period started until the time of the show and 50 percent on the showmanship in the ring.

Competition for the event was keen and the event grew to be an annual highlight for the Ag students at KSC and was looked forward to with anticipation from year to year by persons attending Farm and Home Week. The Little American Royal remained a part of Farm and Home Week until 1942 when it was disbanded due to World War II.

Because of limited seating facilities, increased enrollment, and interest shown in the past shows, this year the joint committees of the Block and Bridle and Dairy Clubs decided to increase the number of entries and hold the show independent of Farm and Home Week. This puts the show later in the spring, which makes possible more favorable weather conditions for the fitting and training program. The drawing was held February 28 to give the participants six weeks for the training period.

The primary purpose of the show

is to give students practical experience in fitting, training, and showing of various classes of livestock. The animals are purebreds owned by the College and made available thru the courtesy of the department heads and the herdsmen who will supervise the fitting and training at the barn.

The classes consist of Hampshire,

Southdown, and Shropshire ewe lambs in the sheep division; Duroc-Jersey and Poland-China gilts in the swine division; Belgian mares and Quarter horses in the horse division; Angus, Shorthorn, and Hereford steers and heifers in the beef cattle division; and a class each of heifers and cows of Ayrshire, Guernsey, Jersey, and Holstein in the dairy cattle division.

This show affords an opportunity for all Aggies to become better acquainted with the faculty, herdsmen, and the activities that center around the barns and corrals of the College.

(Continued on page 11)



There's a lot more to showing in the Little American Royal than leading an animal around or making it stand attractively. Here, Jack Graham, sophomore in dairy production, uses the clippers to improve the appearance of one of the Jerseys in the College dairy herd. Approximately 180 Ags are fitting animals for the Little American Royal.

Dried Egg Bulletin Typical Of Station Research Stories



Allen L. Olsen records the results as the powder passes through a cyclone re-drier. This re-drier is a special model set up in the pilot plant here at Kansas State for the experiments recorded in Technical Bulletin 64.

By JAMES A. ORTON

There are few students of agriculture at Kansas State College who have not made use of technical bulletins, bulletins, or circulars put out by the Kansas Agricultural Experiment Station. These publications are available on almost every phase of industry connected with agriculture and the applied sciences.

Such a mass of technical and useful information is not available without much effort on the part of staff and faculty members at Kansas State College.

To follow the steps in printing Technical Bulletin 64, "Improved Dry

Whole Egg Products," will present a panorama of the procedures followed in the preparation of these experiment station publications. This report will be released this month.

In late 1941, the United States Army Quartermaster Corps placed orders for dried eggs with several small firms, and a few large firms, engaged in egg dehydration industry. These firms, happy to have such an outlet for their products, turned out 5-gallon cans of dried eggs by the boxcar load.

However, egg dehydration was at that time something new, and eventually even the Quartermaster Corps

executives realized that powdered eggs were not as palatable as those straight from the hen house. They explained to the dehydrating firms that something must be done. After the dried eggs were shipped in cans half way around the world and stored at varying temperatures, the flavor and aroma was such that G I Joe turned up his nose whenever they were served.

This problem was handed to Ralph M. Conrad, Gladys E. Vail, Allen L. Olsen, Gwendolyn Tinklin, John W. Green, and Charles Wagoner, staff members of the Kansas Agricultural Experiment Station in 1942, for research that would, Uncle Sam hoped, lead to a more appetizing product.

Although several other laboratories were involved in the experiment and credit for advances must be shared with them, the local group studied the nutritive value, particle size, methods of production, cooking qualities, packing methods, acidity, and other factors too technical to list.

These scientists found that adding sugar to the eggs and packing them in carbon dioxide helped to retain their cooking qualities. The flavor of dried eggs was stabilized by adding acid.

"Now, eggs that are correctly dehydrated and properly packed can be held at temperatures up to 100° F. for several months. When they are used for cooking and baking, the products obtained cannot be distinguished from similar products made with fresh eggs," Dr. Gladys E. Vail, head of the Department of Food Economics and Nutrition, stated. However, she doubted if scrambled eggs made from dried egg products would taste like scrambled fresh eggs.

Having successfully completed their research, the experiment station workers were ready to write up their results to be presented in the form of a technical bulletin. Accomplishing this, they handed the manuscript to the heads of their respective departments. After the department heads read and approved the material, it was submitted to Dean R. I. Throckmorton, director of the agricultural experiment station, who approved it for publication.

The next step was to send it to E. B. Macy, experiment station editor. Professor Macy has been station editor for two years and during that

(Continued on page 13)

Small Animals Lab Building Opens Study in Five Fields

By DON TARVER

In 1941 a fire destroyed an old barracks here at Kansas State. The building was then being used for research work on small animals by the bacteriology and zoology departments.

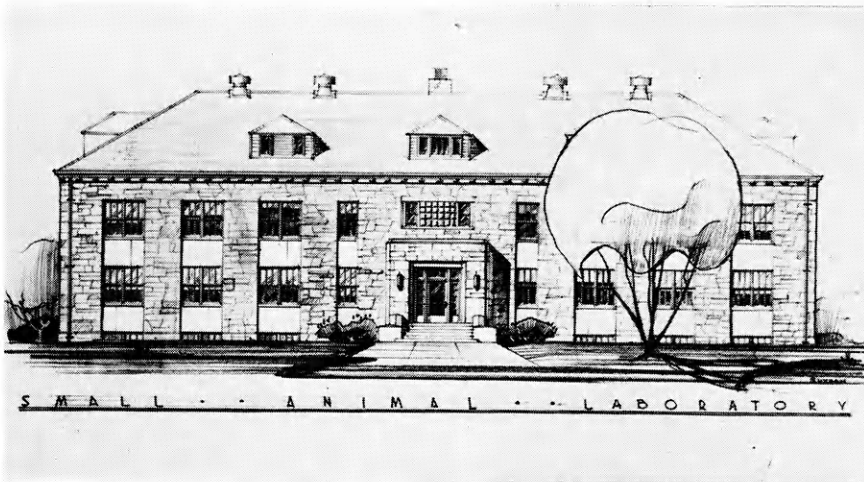
As a result of this fire an appropriation of \$100,000 was established to be spent on a new building—a small animal laboratory. Declaration of war that same year prevented immediate action.

Last fall work began on the new Small Animals Laboratory. The appropriation has been increased to

bestos shingles. The lab is the only building on the campus to have glazed tile interior walls.

The main corridors, the vestibule, and the entrance hall will be floored with asphalt tile. Other floors will be concrete covered with a layer of concrete and red, waterproof cement powder.

The structure will be completely fireproof and waterproof, and will be air conditioned throughout. The building also will contain a special internal incinerator for disposal of dead animals.



The newest building project on the Kansas State campus is this Small Animal Laboratory. It is now under construction northwest of West Waters Hall.

\$200,000, which will be sufficient to complete Kansas State's newest project.

The Small Animals Laboratory will be utilized entirely for research purposes in connection with Kansas Agricultural Experiment Station work. Only small animals such as guinea pigs and rats will be used in this work.

The laboratory will have two floors and a basement. It will be 46 feet wide by 125 feet long and will be located between the Military Science building and West Waters Hall. It is being constructed of native limestone hauled from Junction City, reinforced with concrete and trimmed in Silverdale. The roof will be of as-

The laboratory will incorporate five distinct types of study—genetics, nutrition, parasitology, endocrinology, and bacteriology. Each of these phases of research will be done separately and will be separated from others to assure a high degree of accuracy in each project.

H. L. Ibsen, professor of animal husbandry, will work almost entirely with guinea pigs in the genetics phase. His work will be relative to large animal breeding. Dr. Ibsen will have a special room to be used for oat sprouting to provide winter feed for his guinea pigs.

The nutrition phase of research and study will be headed by Beulah D. Westerman, professor of food eco-

nomics and nutrition. Dr. Westerman will do research pertaining to nutrition experiments and her work will be done mostly on white rats. Experiments also will be carried on to determine the types of nutrition that can be applied to human consumption and digestion.

J. E. Ackert, professor of zoology, will conduct research in parasitology. Dr. Ackert will work with rabbits and chickens in his investigations of the biology and control of internal parasites of domestic animals and especially those of poultry.

Units of artificial digestion apparatus will be employed in this work. This is a new type of attack on parasites of poultry and other domestic animals.

Dr. Ackert will use batteries of Baermann apparatus, a system of screens and funnels for isolating parasitic worm larvae from soil and straw.

An experiment will be conducted which will involve larval forms of parasites of larger animals. This work will initiate use of scale model pastures and corrals to observe the life cycle of parasites, especially in the egg and larval stages, as to effects of moisture on their survival. This is the first experiment of this type to be conducted in Kansas.

Dr. Ackert also will experiment with parasites of cats. Cats in Manhattan are infected with a species of pathogenic stomach worms with an unknown life cycle.

Endocrinology will be studied by E. H. Herrick, professor of zoology. Dr. Herrick will use chickens in his work which will deal with the physiology of reproduction.

Research in bacteriology will be conducted by L. D. Bushnell, professor of bacteriology. Dr. Bushnell will work with chickens, rabbits, and guinea pigs in phases of poultry diseases.

Paul Weigel, head of the Department of Architecture, served as adviser in the preliminary drawings of the laboratory. W. O. Peters is the contractor and W. B. Duncan is the state supervisor.

When completed next fall, the modern Small Animal Laboratory will be one of the few buildings of its type in the country, and results of the research done will be of utmost importance to Kansas farmers and stockmen, according to Dr. Ibsen.



Charles Pence, Saline County 4-H agent, visits Wendell Morrison, Saline County 4-Her. The pigs are Wendell's project.

Pence, '38, Kansas 4-H Head, To National Post

By JOHN SJO

Outstanding 4-H Club work in Kansas was paid a tribute in the National 4-H Club Congress in Chicago when Charles W. Pence was elected president of the National Association of 4-H Club Agents. This is the first time a Kansas State grad has held this position.

Outstanding work in agricultural leadership for Pence began on a farm 13 miles from Topeka in Shawnee County through 4-H club work. Upon graduation from Seaman Rural High School, he entered Kansas State College to further his training for work in agriculture. While in college, Pence was a member of Block and Bridle, Alpha Zeta, College Band and Orchestra, meat judging team, junior livestock judging team, livestock judging team, and Collegiate 4-H Club.

The livestock judging team placed first at the 1937 International Livestock Show and thus helped to bring the bronze bull permanently to Kansas State. It now stands in East Waters Hall.

Upon graduation in 1938 Pence

accepted a job with the Farm Security Administration before entering club work in 1941. He is now 4-H club agent in Saline County, going there in May of 1947 from Wyandotte County where he had served since January of 1946.

Pence had an outstanding record during his military service. He entered as a private in April, 1942, and served until January, 1946. He was discharged as a major. Thirty months of his service was in the Asiatic-Pacific area as a medical supply officer. Before entering the service Pence served as 4-H club agent in Labette and Dickinson Counties.

Saline County had an outstanding record under the leadership of Pence last year. There were 13 clubs with a membership of 284. These members carried 724 projects at a value of \$118,266.95.

Six Pence-coached 4-Hers received state honors last year. These winners were Richard Buhler, blue ribbon winner in the state dairy production contest; Dale Johnson, purple ribbon winner in the state promotional talk contest and winner of a Carl

Raymond Gray scholarship to study agriculture here at Kansas State; Donna Johnson, state style revue champion; Gerald Knowles, Kansas delegate to the National 4-H Club Congress; Lawrence Odgers, winner of the state Guernsey production contest and delegate to the National Dairy Congress; and Charlene Shaffer, owner of the reserve champion pen of poultry at the Kansas State Fair at Hutchinson.

In addition, Saline Valley Club won a blue ribbon in state competition for its health program, and the Bavaria Club received honorable mention for its club newswriting activity. The Pence-coached Saline County livestock judging team won first place at the Kansas Free Fair at Topeka.

"I would like to encourage every Ag student who plans to go into extension work to give serious thought to being a club agent, as Kansas really needs them and I know of no other profession where you can get the enjoyment of seeing young people develop as you can as a club agent.

"4-H clubs make up the outstanding youth organization of the world. It is training 200,000 more members than any other organization. Its purpose is not to teach the boy or girl to be a better farmer or home maker but to develop a better boy or girl for whatever work they take up in helping them to be a better leader and citizen," Pence asserted.

The purpose of the National Association of 4-H Club Agents is to promote and develop the profession of county 4-H agents. The association has a membership of 479.

Pence is also president of the state organization of the Kansas Association of 4-H Club Agents.

The Pence family makes its home in Salina. Mrs. Pence is the former Louise Sunderland of Nemaha County. They have a son, Charles Douglas, aged 5.

Juniors in agriculture interested in the Eastern Star scholarship should contact Dean C. W. Mullen. Eligibility according to the College catalogue is limited to juniors who are Masons, members of the Order of the Eastern Star, children of Masons of Kansas, or children of members of the Order of the Eastern Star of Kansas. Application blanks and additional information are available in the dean's office.

New Oat Varieties Lessen Victoria Blight Threat

By HAROLD BROWN

"For every disease there is a cure."

The Kansas Agricultural Experiment Station didn't cure Victoria blight, but it cooperated in the development of three new Victoria blight-resistant oat varieties—Cherokee, Nemaha, and Clinton—for production in Kansas. Agronomists now recommend these new varieties.

Prior to 1946, such varieties as Osage and Neosho seemed to fulfill the needs of the Kansas farmer. They were resistant to crown and stem rust, had good test weights, and yielded well in oat areas of Kansas. But these varieties were found to be susceptible to Victoria blight!

Victoria blight was first recognized in Iowa in 1944, and was found in Kansas in 1946. The disease, which is caused by a fungus, damages the roots severely and causes lodging of the oat plant.

Kanota and Fulton, two oat varieties commonly grown in Kansas, also have blight resistance. However, the new varieties have crown rust and stem rust resistance and possess stiffer straw than Kanota or Fulton oats.

Clinton, Nemaha, and Cherokee all have similar characteristics. Cherokee and Clinton were selected from the cross Richland-Green Russian x Bond, and Nemaha was selected from the cross Victoria-Richland x Morota-Bond.

Besides good smut and blight resis-

tance, the three varieties have shown very high test weight and have given good yields in the limited time in which they have been tested. The data which have been obtained during the last four years indicate that the three new varieties will exceed Osage in yield when Victoria blight is present. The Nemaha and Cherokee varieties head about the same time as Osage, but Clinton heads about five days later.

Although all three varieties have stiff straw which prevents lodging, Clinton probably has the stiffest straw of the three. The straw is taller than Osage or Neosho. The grains are very similar in appearance. Clinton and Nemaha have a yellowish grain, while Cherokee may have a more ivory color with a reddish cast.

The Kansas Agricultural Experiment Station recommended these new varieties on the basis of cooperative oat variety tests which were made from 1945 to 1947. The tests were made cooperatively by farmers, County Farm Bureaus, and Kansas State College.

In 1945, when rust was a factor in production, Osage and Neosho outyielded Fulton in all sections of the state. In 1946, when Victoria blight or rust were not factors in production, Clinton was outyielded by Osage and Neosho. In the past year, when Victoria blight was prevalent but rust was not, Nemaha and Cherokee had

high yields in all sections. Clinton yielded as high as Cherokee and Nemaha except in the central and western sections.

The comparative yields last year in the northeastern section of the state showed the three blight-resistant varieties averaging over 60 bushels an acre, while the non-resistant varieties yielded under 50 bushels. The same was true in the southeastern section of Kansas. In the central and western sections, Nemaha and Cherokee again yielded over 60 bushels. The low in this section was Neosho with 51.2 bushels.

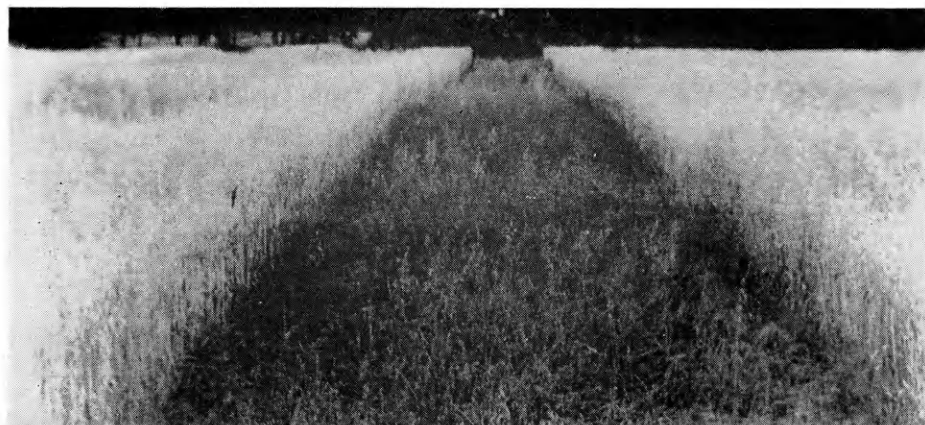
Test weights in 1947 for Cherokee, Nemaha, and Clinton were higher than for the susceptible Osage and Neosho varieties in all sections of the state. The differences in weight, however, were greater in eastern than in central Kansas.

Approximately 2,000 bushels of the new blight-resistant varieties have been sent by the experiment station to 60 eastern and central counties in the state. It appears that these three new varieties are resistant to the common diseases in the state. They are susceptible to some minor diseases which may possibly cause damage.

Since there is only a small amount of seed of the Victoria blight-resistant varieties being sent out this year, it will be necessary for farmers to grow susceptible varieties. Such varieties as Osage, Neosho, Boone, Tama, Vicland, Cedar, Vikota should be treated with New Improved Ceresan, according to A. L. Clapp, station agronomist.

The seed should be treated at the rate of one-half ounce per bushel at least two days before planting. It may be treated by the grower from eight to ten weeks before planting. Treatment of seed is most effective when the crop is used in a rotation. In addition to increasing the yield of oats, the seed treatment will prevent infestation of the land with the fungus which causes Victoria blight.

Chase Wilson, Ag '43, has joined the research staff of Dannen Mills, Inc., St. Joseph, Mo. as herd manager of their research farm. Wilson was with the dairy department of North Dakota State College before accepting his present position.



Blight resistance is becoming increasingly important as a factor in Kansas oat production. The center variety in the experimental plot is severely affected by blight while the resistant varieties made satisfactory yields.

Continuous Freezer Gives Supersmooth Ice Cream

By CHARLES F. FOREMAN

"Say, isn't this some new kind of ice cream?" "It must be, because it certainly does taste different." These remarks were heard at the dairy bar in West Ag recently.

The fellows were straightened out, however, for the attendant quickly told them that the same old ice cream mix was now being made into a new supersmooth, creamy textured ice cream. This is being accomplished by the new continuous freeze ice cream freezer which has replaced the old style batch freezer.

This new freezer is but one piece of the new equipment which the College creamery has purchased to keep up with the new developments in the industry.

The first College creamery was in the basement of the present Chemical Engineering building. The equipment used at that time was quite primitive compared to present standards.

In 1924 the creamery was moved into its present location in West Ag. The creamery at that time was equipped with the latest in dairy manufacturing equipment.

From 1924 to 1948 occasional replacements of equipment were made. For the department to be able to give

instruction in new and modern methods of milk processing and manufacturing of dairy products, it became necessary to purchase more modern equipment.

This was made possible when the 1945 legislature approved \$10,000 for purchasing new machinery. The equipment was ordered in 1946 and was received in late 1947. Such things as a new floor and new refrigeration facilities are still needed.

Other new equipment includes an ice cream mix pasteurizer, homogenizer, and cooler. This is a step in bringing the standards of ice cream making up to those of grade A milk.

A replaced drum on the churn has converted it from a single roll to a rolless churn. This insures increased sanitation in butter making because there are no gears in the new drum.

Other new equipment includes an oval coil cream pasteurizer and ripener and a six-can-a-minute rotary washer equipped with an air exhaust fan and automatic temperature control.

In the dairy bar there is a new eight-hole Kelvinator ice cream dispensing cabinet which has replaced two old ones in use since 1925.

These improvements have given a completely new look to the College

creamery. We now find a dairy manufacturing plant as modern as any in this section. It will be especially valuable in giving students training in modern equipment and methods, and will aid future research work.

K-Stater's Steer Tops Ft. Worth Contest

By DICK WARREN

"T O's Target was the best steer I have ever fed," beamed Elmer Pelton, owner and feeder of the grand champion steer of the Fort Worth Fat Stock Show early in February. "He was never off feed for a day."

Elmer Pelton, two-year Ag at Kansas State, sold Target at \$5.60 a pound, for \$6,000. Elmer purchased his prize Hereford in November, 1946. Target was one of the culls of the 150-steer lot bred by the T O Ranch at Raton, N. M., Pelton stated. "Target was a small, broad, ugly duckling at that time", Elmer said, "but he resembled a top Angus steer I once showed, and I felt he would do the job."

The champion weighed 1070 pounds at Fort Worth, which put him in the medium heavy weight class and was a typy lowset bullock with lots of width and depth.

"I plan to use some of the money to go to school, and apply the rest to my Angus breeding herd", Elmer stated. He started his purebred Angus breeding herd during his second year of 4-H work and now owns more than 55 head.

Elmer chuckled as he recalled a stir he aroused in Fort Worth. Governor Roy Turner of Oklahoma, also a Hereford breeder, and Jack Turner, secretary of the American Hereford Association, were quite proud of Elmer's record with his Hereford steer. "After the sale I was asked to speak over the radio," Elmer explained, "and I told the interviewer that I planned to go to school on part of the \$6,000 and invest the rest in my Angus breeding herd. This seemed to be the wrong thing to say, especially since Target was a Hereford".

Elmer listed no particular reason for selecting a Hereford this year but added that Target was the best prospect he had seen.



Making ice cream is now an assembly line proposition. Here Harold Eversmeyer, Gail Clemens, John Elam, and Val Zeigler demonstrate the ice cream making process in the new continuous freezer in the College dairy.

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KANSAS STATE COLLEGE



Officers of the state FFA elected last spring are A. P. Davidson, executive adviser; James Boucek, Ottawa, secretary; LeRoy Spicher, Simpson, reporter; Harland Priddie, Haven, president; Eugene Brinkman, Coffeyville, treasurer; Bob Greve, Harper, vice-president; and L. F. Hall, executive secretary.

FFA will be election of the 1948 class of State Farmers, the FFA speech contest, ranking of chapters in the state chapter contest, and election of officers for the ensuing year. State President Harland Priddie, from the Haven chapter, will preside. Ervin Martin, Salem, Indiana, National President of FFA, will be present both days. He will address the House of Delegates meeting and will appear on the banquet program.

The Future Farmers will be housed in Nichols Gymnasium through the cooperation of the Extension division and the athletic department. K. L. Ford, secretary of the Alumni Association, will be in charge of housing. Tours of the campus and experiment station will be sponsored by the Department of Economics and Sociology, with Prof. Merton Otto in charge.

The banquet April 27 in Nichols Gymnasium will be provided by the Manhattan Chamber of Commerce; Lee King is president and C. C. Kilker is secretary of the Chamber. The entire contest program is in charge of the College Contest committee which includes Dr. H. E. Meyers, Dr. A. D. Weber, Prof. George Montgomery, Prof. F. W. Atkeson, Prof. F. C. Fenton, Prof. A. P. Davidson, and Prof. L. F. Payne, chairman. L. B. Pollom, Topeka, is state adviser of the Kansas Association of FFA.

The late John D. Rockefeller made his first money at the age of seven, raising turkeys.

FFA Contest in Silver Year As 900 Gather at K-State

By WAYNE COLTRAIN

Approximately 900 boys from Kansas high schools will attend the Twenty-Fifth Annual Vocational Agriculture Judging and Farm Mechanics Contest which will be held at Kansas State College, April 26 and 27. In connection with the contest the Kansas Association of Future Farmers of America will hold its twentieth annual program.

Contests in agriculture include judging poultry, crops, dairy, beef cattle, swine, and sheep. In farm mechanics, the contestant should have proficiency in farm power, sharpening tools, soil conservation, concrete work, welding, farm machinery, and farm carpentry.

Each high school is permitted to have one team of three members in the agricultural judging contest and a team of two members in the farm mechanics contest. Schools not represented by teams will be permitted to enter one or two individuals in each contest.

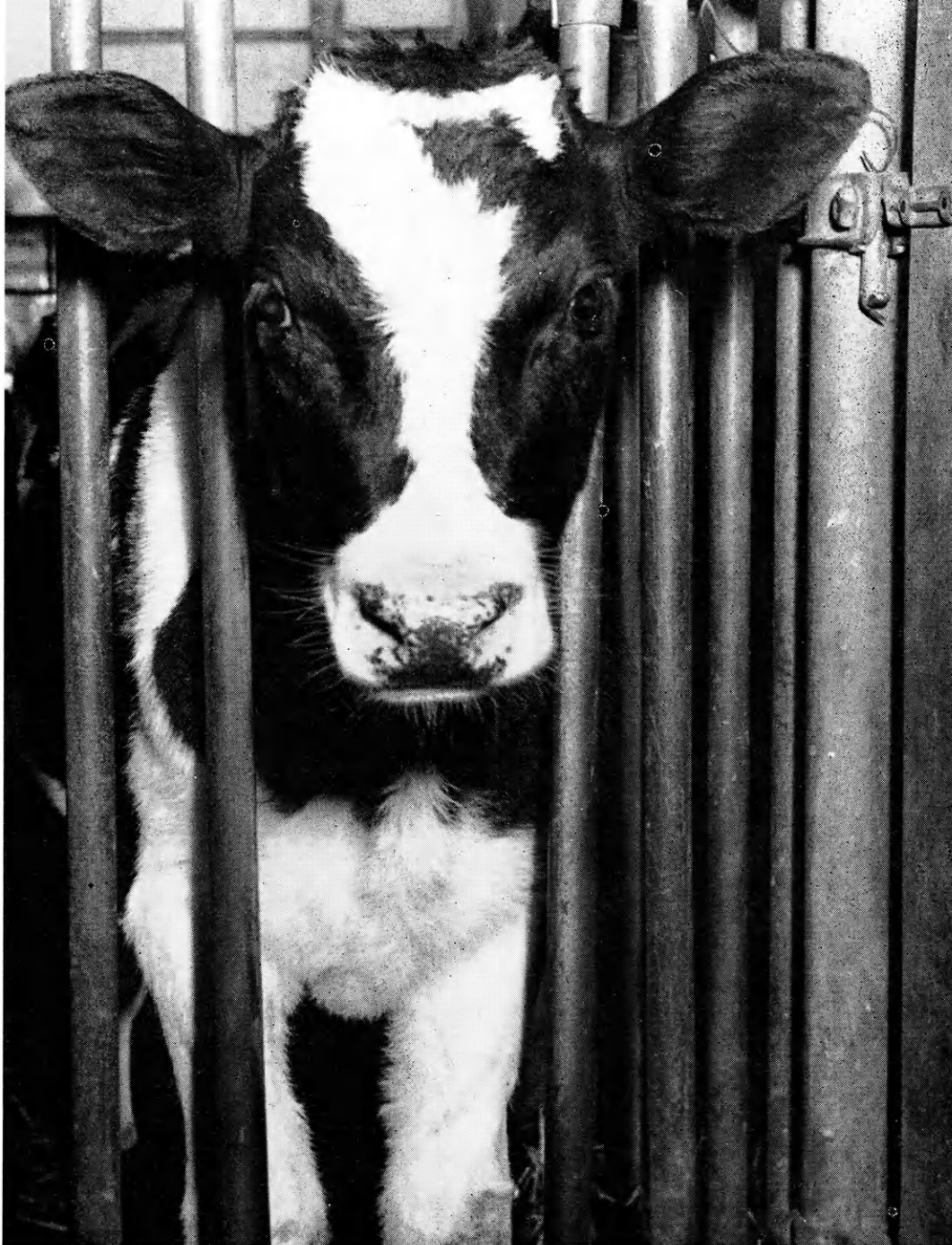
A box lunch will be served on the campus at noon Monday and Tuesday to contestants in the agricultural

and farm mechanics contests. The Agricultural Education Club, Kansas State College, will cooperate with the Manhattan restaurants in distributing the lunch.

Among the activities of the annual meeting of the Kansas Association of



Prof. A. P. Davidson shows the FFA plaque to Wyman White, Frank Carpenter, and Lester Crandall. The students are officers of the Ag Education Club and will assist with the state FFA contest.



Wyman White's winning entry in the '47 Ag Student Photo contest appeared on the cover of the May issue. As Staff photographer, Wyman is ineligible to compete in this year's contest.

Announce Second Ag Photo Contest

First Prize—\$5.00 Cash and \$10.00 in merchandise at Wright's Appliance Store.

Second Prize—\$3.00 Cash and 8" x 10" Goldtone Salon Mount and \$5.00 in merchandise by Manhattan Camera Shop.

Third Prize—\$2.00 Cash and \$5.00 in merchandise at the Palace Drug Store.

Fourth Prize—\$2.00 and two cartons of flashbulbs by Guerrant's Photo Shop.

Fifth Prize—\$2.00 and visible dodger and photo album by Wolf's Camera and Sports Mart.

Sixth Prize—\$3.00 Cash and one 5 x 7 Goldtone print of the best box camera print by Burk Photo Service.

Seventh Prize—\$2.00 Cash and color transparency by Burk Photo Service.

Eighth Prize—\$1.00 Cash for best box camera print.

RULES

1. Contest is limited to the students enrolled in the School of Agriculture. Members of the staff of the Kansas Agricultural Student will not participate in the contest.
2. Pictures submitted must have been taken by the student submitting the prints; however, it is not necessary that the developing and enlarging be done by the entrant. Each contestant may enter four prints.
3. Judging will be based on subject material, composition, and technical quality; judges decisions will be final. The contest will be judged by a faculty committee selected for their interest and ability in photography.
4. Subject material may be selected from the following:
 - a. Agricultural scenics
 - b. Farm animals, crops, or activities
 - c. Campus shots of agricultural interest
 - d. Agricultural research
5. Prints must be 5 x 7 inches or larger on single weight, glossy paper. Back of print must carry the following information:
 - a. Name of entrant
 - b. Name of camera
 - c. Type of camera—folding, view, box, press, or 35mm.
 - d. Approximate date the picture was taken.
 - e. Statement telling whether the print was made personally or by a commercial finisher.
6. Prizes will be offered for the first eight placings. No person will be permitted to receive more than one prize.
7. Prints must be submitted to the Ag Student office, East Waters Hall, Room 105, not later than noon, April 16, 1948. All prints become the property of the Ag Student.

This information should appear on the back of each photograph:

Name Telephone

Name of camera

Type of camera—folding, view, box, press, or 35mm.

Approximate date the picture was taken.

Whether printed personally or by commercial finisher.

Ag Association Chief Piles Up Honors

By HOWARD BORCHARDT

That tall fellow who grabs the mike at Ag Seminar and dispenses with the business at hand in a cool, efficient manner is one of the best known students at K-State. At 21, Dean Schowengerdt has piled up a long list of activities and honors.

Dean spent his boyhood days on a farm at Reserve, a community in the extreme northeast section of the state. He was one of the boys who held up the 1944 commencement exercises at Hamlin High School while he paid a pre-inductory visit to Fort Leavenworth. He put aside college plans temporarily for a period of



DEAN SCHOWENGERDT

“learning the ways of an infantryman” in Texas.

The fall semester of 1945 found Dean enrolling in Ag Education at K-State. He started off in a modest way by being elected vice-president of the Dairy Club that year and becoming a member of the International Student Association Planning committee. For practical experience he spent the latter part of the summer of '46 on the road with the Jud

Bridge Brown Swiss Show Circuit.

Still taking things in stride, Dean turned to his departmental major and became secretary and treasurer of the Ag Education Club. As a sideline he was elected first vice-president of YMCA for 1946, as well as chairman of the World Forum, and chairman of the Student Chapel Committee.

Putting his early 4-H Club experience to good use, Dean became vice-president of the Collegiate 4-H Club the fall semester of '46, and advanced to the presidency of that organization the following spring. He rounded out the remainder of his sophomore year by being elected to Alpha Zeta. The spring of '47 also saw his election as president of the Agricultural Association.

Dean is a member of Farm House social fraternity, having pledged in his freshman year. He did his finest job as social chairman in the announcement of his engagement to Marjorie Knostman of Wamego at dinner at Van Zile Hall one evening last May.

Marjorie made the plans and Dean hurried home from a Danforth Senior Fellowship trip to Camp Miniwanca, Michigan, for the wedding in Wamego last August 25. The couple headed for California for a short honeymoon before classes started this fall. They managed to find an apartment at 612 North Seventeenth Street. When asked where he kept all his “shingles” and other awards, Dean complained that there just wasn't any

wall space. It seems that Mrs. Schowengerdt, now a senior in Home Economics, isn't exactly the inactive type, and by the time her Mortar Board, Omicron Nu, and other awards had been posted, the decoration job had been completed.

As for future plans, Dean recently switched from Ag Ed to General Ag, with a major in Agronomy and a minor in Animal Husbandry. His original goal was to be a Vocational Ag teacher, but with further graduate work, probably in Economics, Dean hopes for a master's degree in order to teach Ag at college levels. Just as a random wager, we'll bet that he will do it.

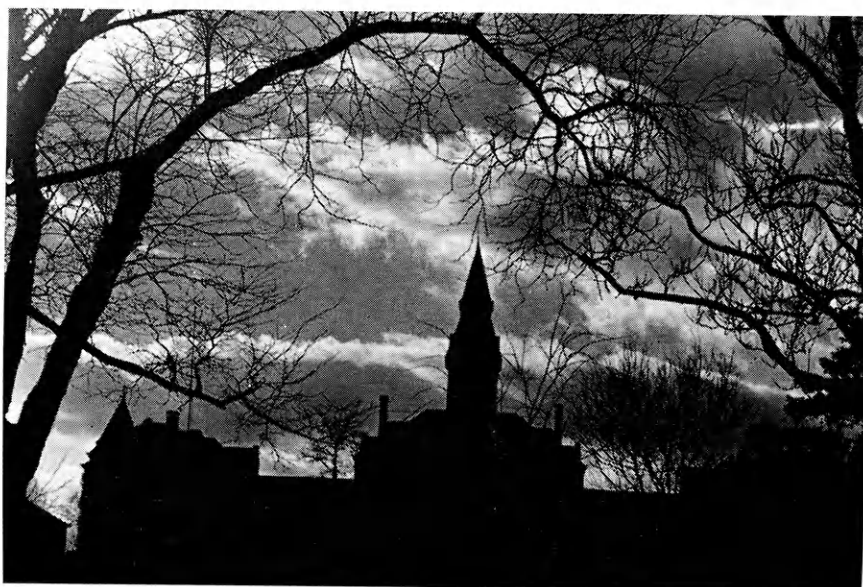
AGS FIT, SHOW FOR PRIZES

(Continued from page 3)

It also helps the newcomers at Kansas State to associate with fellow students who have the same interests and to compete for trophies and ribbons based on the 50-50 performance and training plan that was used from 1927 to 1942. The trophies are furnished by the American Royal Livestock Show and the Kansas City Stockyards Company.

There will be a meal served after the show for the approximately 180 contestants. The feed is paid for by the 25-cent entry fee charged each contestant.

Corn is grown in every state of the union.



Third place in last year's Ag Student photo Contest went to Calvin Swindler of Pratt with this Silhouette of Anderson Hall. Rules for the second annual contest are carried elsewhere in this issue.



Members of the junior livestock judging team winning at Denver are Samuel Harris, Don Good, coach, Eugene Francis, Norman Minks, Glenn McCormick, Tom Carleton, and Howard Dinges.

test. Fred Germann, Manhattan, was first in sheep judging, and Richard Sheets received a quarter horse statue as high man in judging quarter horses. Other members of the Fort Worth team were George Smith, Shawnee; Harvey Arand, Belvue; and Douglas George, Lebo. The team received plaques for being high in sheep and quarter horse judging and for being high team in the contest.

Telegrams wishing the teams luck were sent by Prof. F. W. Bell, senior livestock team coach, to both Denver and Fort Worth teams the mornings judging started. Telegrams were also sent by the boys who did not make the trip.

Don L. Good, coach of the teams, hails from Van Wert, Ohio. He is a graduate in animal husbandry at Ohio State University. Don has had experience in judging contests as a member of Ohio 4-H livestock judging team with International Livestock Show and of Ohio State collegiate teams at the American Royal and the International. Don showed his interest in livestock by working his way through Ohio State while living at the livestock barns. Some of his favorite pastimes are showing and fitting livestock and attending purebred sales.

Don mixed his love for livestock with participation in college athletics, being a member of both the varsity baseball and wrestling teams.

Two Teams, New Coach Take Stock Show Firsts

By MELVIN COTNER

Blue ribbon honors were won by two six-man teams representing Kansas State College in January intercollegiate livestock judging contests. One competed in the National Western Stock Show at Denver, January 17, and the other in the Southwestern Livestock Exposition and Fat Stock Show at Ft. Worth, January 31.

To provide judging experience for more men, two different teams were chosen to represent Kansas State. Both teams were chosen from the course in Principles of Livestock Selection, offered to juniors in agriculture and coached by Don L. Good of the animal husbandry department.

At Denver, Norman Minks, Greensburg, placed first in cattle judging and third in the entire contest. Eugene Francis, St. John, placed second in quarter horse judging and second in the entire contest. Other members of the Denver team were Tom Carelton, Coldwater; Howard Dinges, Hays; Glenn McCormick, Cedar; and Samuel Harris, Colony.

The Denver team won for Kansas State permanent possession of the Denver Livestock Exchange Company

roving trophy. This is the third blue ribbon honor in a row for Kansas State junior livestock teams competing at Denver. The team won plaques for being high in fat cattle and breeding cattle judging.

At Fort Worth, Lloyd Lewis, Em-
poria, was third in the entire con-



Members of the junior livestock judging team winning at Ft. Worth are Don Good, coach, Douglas George, Harvey Arand, Lloyd Lewis, George Smith, Fred Germann, and Richard Sheets.

DRIED EGG BULLETIN TYPICAL

(Continued from page 4)

time has edited all manuscripts written by the experiment station staff. He read the powdered egg manuscript for English and made some suggestions for changes.

From Macy's office this bulletin was sent to R. J. Barnett, professor emeritus of horticulture, chairman of the editorial committee.

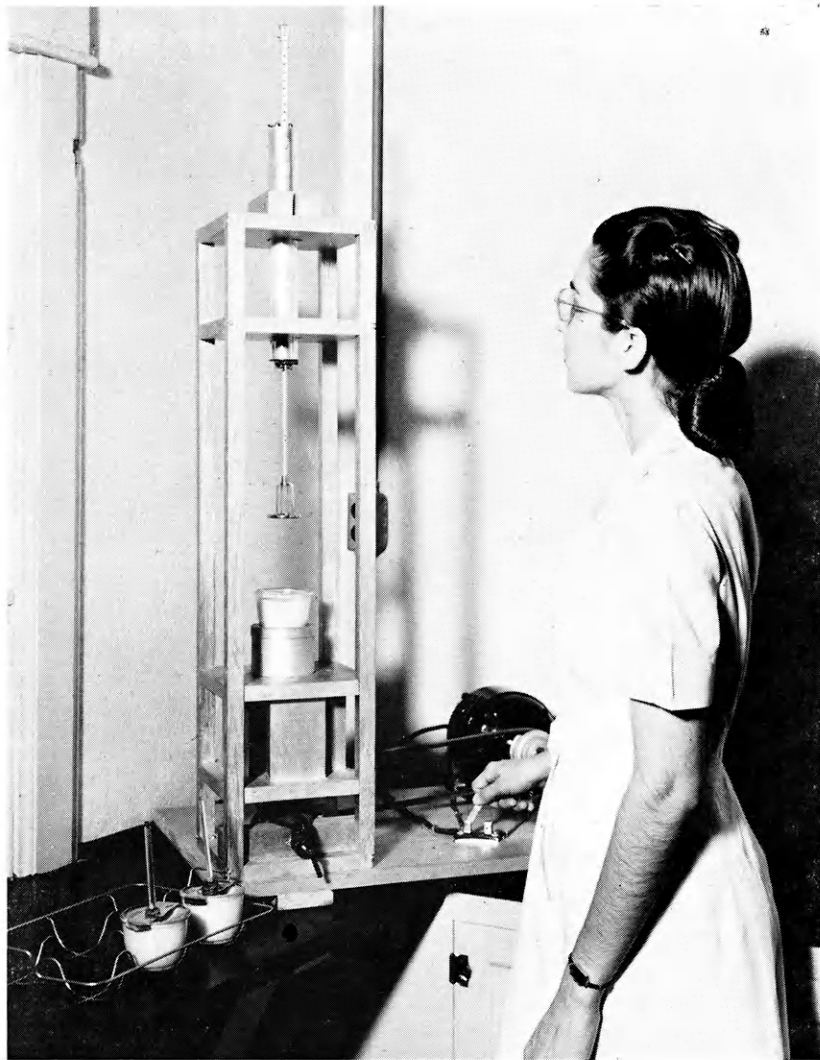
Professor Barnett referred the manuscript to Dr. H. H. Laude, agronomist of the agricultural experiment station, who studied the technical report for content, acceptability, and readability. His corrections and comments were noted and the manuscript was returned to the authors for correction.

"Members of the editorial committee furnish the ignorance for the author," Professor Barnett says. "If an editorial committee member is not an expert in the field of the subject matter of the manuscript he is reading, and cannot understand what the staff member is writing about, the average person will not understand it either." In this case, Professor Barnett sends the material back to be rewritten. However, the authors of "Improved Dry Whole Egg Products" were concise and accurate in their writing and very little editing was necessary.

Having made the suggested alterations, the authors of Technical Bulletin 64 sent their manuscript back to the station editor. Professor Macy ordered the engravings of the illustrations, and marked the manuscript for



R. J. Barnett, chairman of the editorial committee of the agricultural experiment station for more than 20 years, is responsible for the readability of station publications.



Curd tension in baked custards is measured by this Curd-o-meter. The dried eggs produced by each test were subjected to this and many other tests. Severe testing in the laboratory is the best insurance against disappointment when a product is put on the market.

the printers. It was sent, with engravings, to the College printing plant where type was set and galley proofs were made.

Galley proofs were sent back to the experiment station editor and he routed them to Dr. Vail to check for errors in typesetting. Then Macy read the proofs, incorporating corrections, and returned them to the printers. Late this month Technical Bulletin 64 will go on the shelves of the experiment station stockroom, ready for mailing to research workers all over the world.

Besides technical bulletins, the experiment station staff publishes bulletins, circulars, and reports. Usually the station staff writes 50 or more manuscripts for scientific journals each year.

Bulletins report completed experimental work and are presented in non-technical language. During the last

two years nine bulletins have been printed.

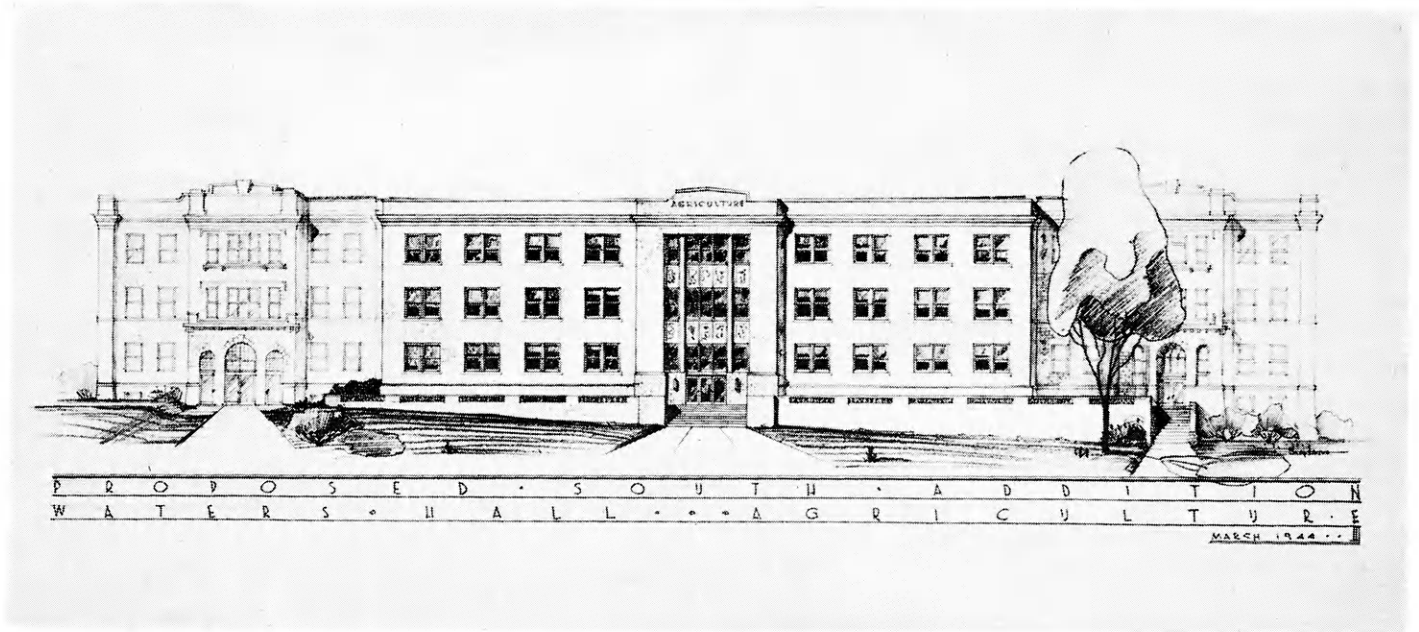
Circulars include data on known practices dealing with production, processing, or marketing. They are designed not only for farmers engaged in growing a particular product, but also for retailers, packers, and other persons who handle the product before it reaches the ultimate consumer.

Reports are issued from the director's office. They are composed of summaries of work completed by a department or by the entire experiment station. They are usually non-technical.

These publications follow the same procedure as did the technical bulletin before final printing.

Cost of hauling farm products over dirt roads is 1 to 3 cents a mile more than for all weather roads, road builders say.

Ag Council Endorses Building Project



Hopes for the construction of a new wing connecting East and West Waters Halls were revived last January when the members of the Kansas Agricultural Council on Research and Education endorsed the project.

With 1250 Ags enrolled here at K-State, present facilities have become

extremely crowded. Some time ago, President Milton S. Eisenhower requested a \$460,000 appropriation to build a wing connecting East and West Waters Halls.

The Council recommending the addition is composed of three members from each of five state agricultural

organizations, Kansas Livestock Association, Kansas Crop Improvement Association, Kansas Poultry Improvement Association, State Horticultural Society, and Kansas Dairy Cattle Council.

Alpha Zeta Is Goal of Aggies

By L. E. CALL

The fraternity of Alpha Zeta was founded at Ohio State University in the fall of 1897. It celebrated this past fall at the institution of its founding its 50th anniversary. At this celebration the accomplishments of the fraternity through its first 50 years were appraised and an effort made on the basis of these accomplishments to state some of the opportunities for the fraternity in the years ahead.

During the past 50 years, Alpha Zeta has won recognition for itself in many ways and established itself firmly as an agency with strong convictions in the field of agriculture and with a clear-cut set of principles for which it stands, including the following:

1. That high achievement in scholarship is basic. Without excellency

in scholarship high attainment in the field of agriculture is seldom achieved.

2. That high scholastic standing alone is insufficient. Unless good scholarship is combined with desirable personal traits, strong moral character, energy, determination, and devotion, the highest degree of achievement is never attained.



L. E. CALL

3. That good fellowship and acquaintance are essential for well-rounded individual development. It is a function of the fraternity to provide opportunities for wholesome fellowship and extension of acquaintance among present and potential leaders in agriculture.

4. That high scholarship is most easily attained when directed and stimulated by superior teaching. The promotion of superior teaching is an obligation of the fraternity.

5. That agricultural progress in the future depends in a large measure upon the discovery of additional facts. The promotion of research should be a major objective of the fraternity.

6. That theory without practice seldom leads to progress. An obligation of the fraternity should be to assist in the dissemination of agricultural facts and in securing their application.

The fraternity has established itself firmly as a society leading in scholar-

(Continued on page 26)

Soil Must Be Productive or We Can't Prosper

International Harvester has long subscribed to the principle that if there is to be a "tomorrow" for both agriculture and industry, soil conservation practices must be carried out today.

To promote this modern farming, the company last fall held the fourth and fifth of a nation-wide series of In-Service Training Courses on farm machinery for Soil Conservation Service personnel. They were staged in Region Five, Lincoln, Nebr., and Region One, Hershey, Pa.

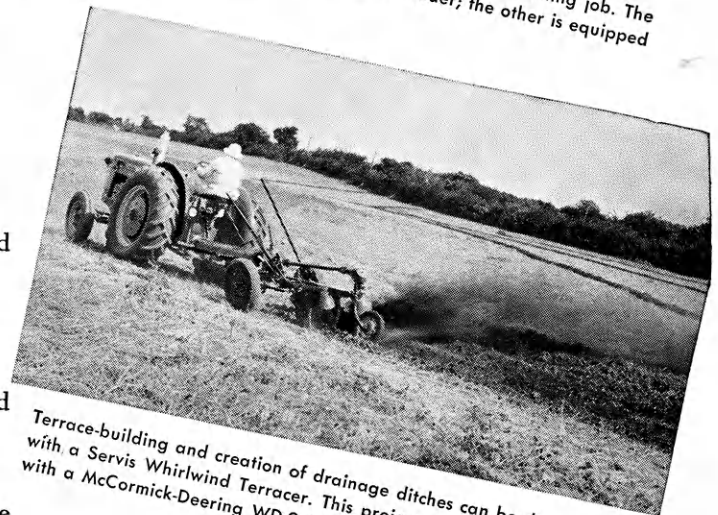
Thousands of soil conservationists, agronomists, county agents, farmers and farm equipment dealers attended these meetings to watch machines fight "land on the move." The accompanying illustrations show how problems of terrace-building, gully control and retaining of top soils, among others, were mastered.

These men, supported by International Harvester and the IH Dealer in your home town, form an army that is waging a great peace-time battle: the conservation of the land, our greatest heritage. We encourage everyone who daily lives and works with American farmers to assist in the program of soil and water conservation.

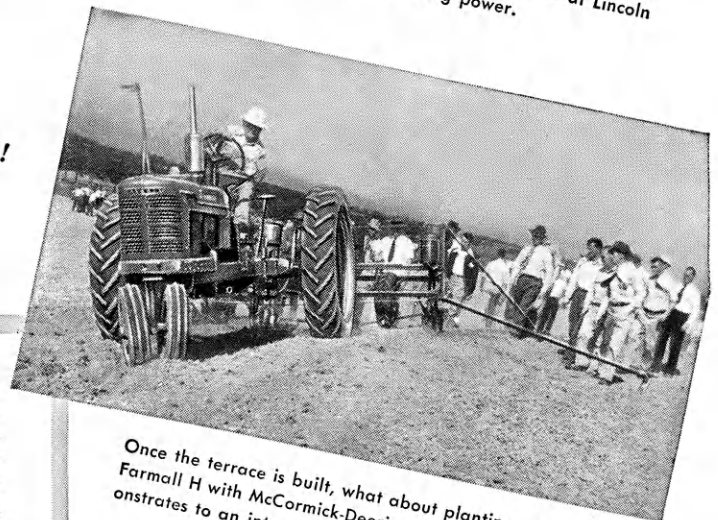
If the farmer is to prosper—and with him, the rest of the nation—*soil must be made and kept productive!*



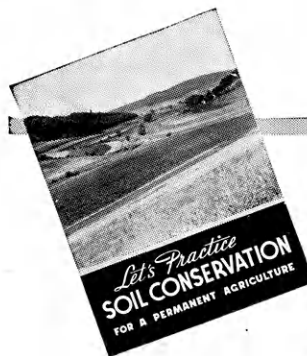
Two Farmall Diesel Tractors team up at Lincoln on a gully-filling job. The one at left uses a McCormick-Deering Power Loader; the other is equipped with a Servis Bulldozer.



Terrace-building and creation of drainage ditches can be done in a hurry with a Servis Whirlwind Terracer. This project was carried out at Lincoln with a McCormick-Deering WD-9 Tractor supplying power.



Once the terrace is built, what about planting on its side? This Farmall H with McCormick-Deering Beet and Bean Planter demonstrates to an interested group at Hershey just how it's done.



Want to know more about soil conservation? Then write for this FREE booklet titled "Let's Practice Soil Conservation." Address Consumer Relations Dept., International Harvester Company, 180 N. Michigan Avenue, Chicago 1, Illinois.



James Chenoweth, junior in animal husbandry, conducts porosity tests in soils laboratory. Work in the soils lab is a feature of Ag instruction. The porosity test exercise is only one of many different experiments which students conduct during the course. During the semester, students make many analyses to determine physical conditions and chemical contents of various soils.

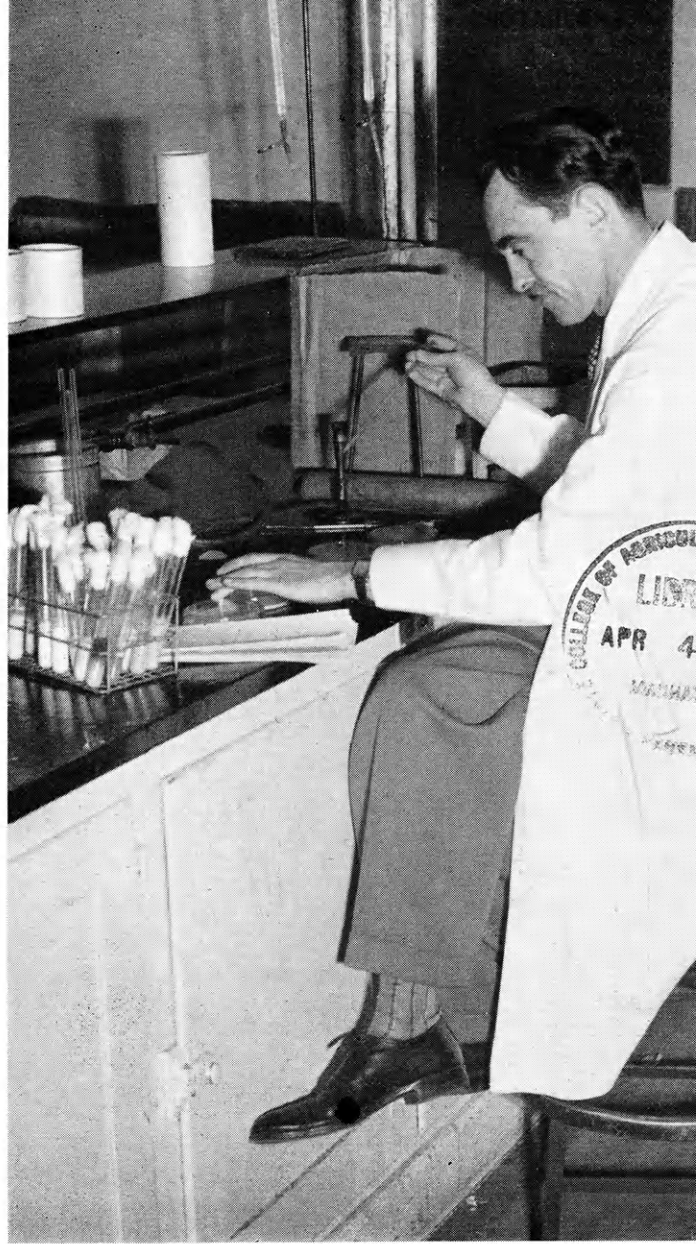
AGS ARE

Students in Agriculture will have an opportunity to become much better acquainted with activities at the College Animal Husbandry farm during the next few weeks as they prepare animals for the Little American Royal. Herdsmen and members



E ACTIVE

of the animal husbandry and dairy staffs will give demonstrations and assistance to entrants in the proper fitting of animals for show. The Animal Husbandry farm joins the College campus on the north.

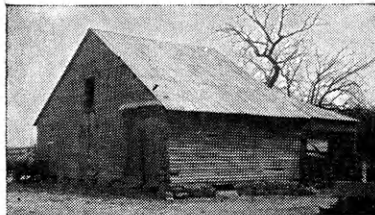


Dr. T. J. Claydon of the College dairy department is conducting a series of tests on the deterioration of cream. He is shown here transferring samples to agar plates from which he will be able to make bacteria counts. Kansas, which ranks fourth in the nation as a cream producing state, is faced with the loss of quality in cream due to its present system of marketing.

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One-Third January Grads Answer 'Call of Farm'

By DELMAR HATESOHL

To work in the fields of their study is the plan of most of the January Ag graduates. Twelve of the 37 grads plan to farm. Ten hope to do graduate work. The only woman graduate expects her housekeeping duties to keep her busy. The graduates had the following plans.

Harold Bellairs is going to work for Quaker Oats.

Walter Bieberly will do graduate work and then hopes to enter fertilizer work.

Julius Binder will do county agent work.

Elmer Blankenhagen is now doing graduate study at K. S. C.

William Bork is county agent in Hamilton County.

Emery Castle is doing graduate work in ag economics.

Alger Ehram will farm in Nemaha County.

Walter Enlow Jr. expects to enter the reclamation service.

John Freedlun will teach G. I. on-the-job training and farm in Neosho County.

Verril Giddings will work for the Andrews Exterminating Company at Wichita.

Richard Gleue is farming in Coffey County.

Carol Hess Gulley expects her housekeeping duties to keep her busy.

Raymond Gulley plans to work in a commercial florist shop.

William Gulley wants greenhouse work with a commercial florist.

Elmer Hanks will farm in Lane County.

George Lewis will work for the International Milling Company.

Ronald Livers is doing graduate work in crop improvement here at K. S. C.

Linton Lull is farming in Smith County.

Alvin Meier listed no definite plans.

Charles Nesbit will go into purebred livestock production for himself.

Rolla Nickelson is doing graduate work in agronomy at K. S. C.

Walter Osborn plans to farm in Washington County.

John Parsons is doing graduate work at K. S. C.

Robert Petro plans to go into business with his father and manage farms in southeast Kansas.

Marion Postlethwaite is doing graduate work at K. S. C.

Edward Riffel will work for the Bankers Life Insurance Company of Lincoln, Nebr.

Marvin Riggs is doing graduate work this semester and plans to teach vocational agriculture next year.

William Rock plans to do county agent or graduate work.

Floyd Rolf is doing graduate work in ag economics at K. S. C.

Charles Roy is doing grain inspection work in an elevator at Kansas City.

Harry Shank will farm in Ness County.

Cecil Siebert is farming in Reno County.

Charles Simkins will do graduate work in soils.

Arnold Spencer intends to enter county agent work.

Lawrence Stalheim expects to do county agent work.

Roger Wilkowske is doing graduate work in dairy manufacturing.

Earl Williams will farm in Cherokee County.

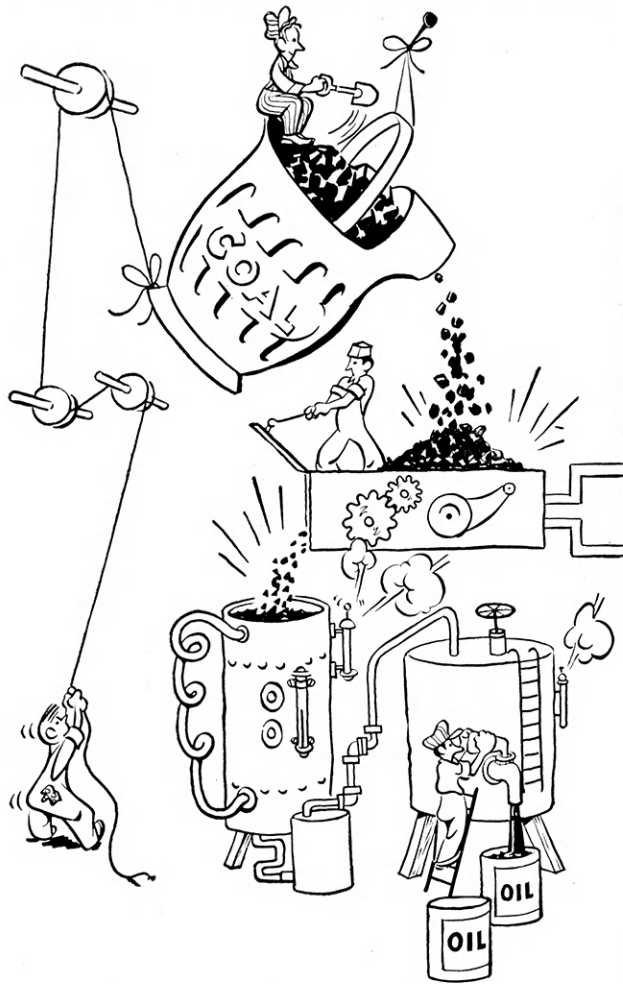
Ags Judge Dairy Products April 17

By JOHN SCHNITTKER

The dairy products judging contest sponsored by the College Dairy Club will be held April 17. All students are eligible to compete in this event, according to Dairy Club officials.

Entrants will judge classes of butter, milk, ice cream, cheese, and dried milk products. Ag students are usually challenged by Home Ecs in this contest.

Among the firms cooperating with the Dairy Club in this event are Purity Manufacturing Company, DeLaval Separator Company, Creamery Journal, and the Milk Plant Monthly.



HOW TO GET A PATENT

To be patentable, a technical contribution must be both new and useful. At Standard Oil (Indiana) there exists a stimulating atmosphere in which our technical men continuously contribute to progress with new, useful inventions.

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library research experts and patent attorneys. Their findings and the results of laboratory tests go with the disclosure to an application committee. On the average, one patent application is filed for every seven disclosures submitted.

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Chemicals alter the composition of many fruits and vegetables. By using hormone-like substances, Dr. J. C. Bates, associate professor of horticulture, has produced fleshy seedless tomatoes.

Chemical Studies May Save Dollars For Hort Producers

By KENNETH L. GOERTZEN

Seedless tomatoes, frost protection for fruit trees, and nematode control are among the results hoped for as the result of experiments made possible by a grant from Sharples Chemicals Incorporated.

Kansas State was chosen by the chemical concern to be the recipient of a \$15,000 annual grant for the purpose of testing chemicals for insecticidal, fungicidal, nematocidal, and hormone-like properties. These funds are administered by a committee on which Dr. W. F. Pickett, head of the Department of Horticulture, serves as chairman.

The work is divided into two phases. The entomology - plant pathology phase is being worked on by Howard W. Smith, assistant professor of entomology. He is primarily testing for nematode killing substances which can be applied to the soil at reasonable cost without injury to the soil or plants. In addition to his search

for nematode killing compounds, he is screening materials to check for insecticidal or fungicidal value.

The horticultural phase is being worked on by Dr. J. C. Bates of the horticulture department. Doctor Bates tests chemicals to determine their influence on plant response. For example, chemicals are tested to see whether they will hold back the blossoming of fruit trees. This would be advantageous since tender blossoms could be held back until a frost-free date. Other chemicals that retard plant activity are being tested for possible use to keep potato tubers dormant. This would retard sprouting and shrinking of stored potatoes. Some chemicals have a stimulating effect on plant growth. Some are used to stimulate root growth on cuttings. Doctor Bates is testing a number of chemicals to determine whether they have this stimulating effect. Perhaps one of the most spectacular of Doctor Bates' experiments is the production of large fleshy seedless tomatoes by the use of hormone-like substances.

George D. Oberle, Ag '31, was named plant breeder and geneticist for the New York Agricultural Experiment Station.



Farm-Eating Soil Erosion Can Be Tamed

Soil erosion mutilated 500,000 acres of farm land last year! Even fields it failed to chew into gullies and ditches were often bled of their fertility. Unless it is curbed, this soil-hungry monster will cripple American farm production by gobbling more and more of our precious topsoil.

Fortunately, there are ways to control this spoiler of the land. Better crop rotations, contour farming, strip-cropping, and many other soil-saving practices have been developed by our agricultural experts. John Deere and other farm implement manufacturers are producing

the machines that make the application of these new methods both practical and profitable.

It will take a lot of telling, explaining, and demonstrating, however, to acquaint farmers with the full possibilities of these soil-saving methods. That's why you can serve your neighbors and help to make your own future more secure by adding soil conservation to your stock in trade, and joining forces with the soil erosion tamers in your community.

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Standards for livestock are constantly improving. Breeders are developing better strains of meat animals — new feed and fodder crops are being discovered. These scientific advances are reflected in the prize animals shown at the yearly, great International Live Stock Exposition in Chicago, at similar large expositions in other sections of the United States, and at State and County Fairs throughout the country. Visit these shows frequently while you're still in school. It's part of your education. And keep up the habit after you have left school—for at these shows you will see the patterns for the animals you must raise to keep abreast of the market.

ARMOUR and Company

CONSTITUTION AND BY-LAWS OF THE AGRICULTURAL ASSOCIATION, K. S. C.

PREAMBLE

We, the students of the School of Agriculture of Kansas State College, in order to further the best interest of the School of Agriculture, to unite the efforts of the students of the School of Agriculture for more effective work, to maintain and support all meritorious student activities of the School of Agriculture, and to conduct such other business as may from time to time come before the agricultural student body, do hereby organize the Agricultural Association of Kansas State College.

ARTICLE I. Name

SEC. 1. The name of this organization shall be "The Agricultural Association of Kansas State College."

ARTICLE II. Eligibility

SEC. 1. Any student regularly enrolled in the School of Agriculture shall be a member of the association.

ARTICLE III. Government

SEC. 1. Officers of the Agricultural Association shall be president, vice-president, secretary, treasurer, manager of the Ag Barnwarmer, assistant manager of the Ag Barnwarmer, and editor of the Kansas Agricultural Student.

SEC. 2. There shall be an executive council consisting of the president, vice-president, secretary, treasurer, and one faculty adviser appointed by the Dean of Agriculture.

SEC. 3. No person shall be eligible to hold office who has not been a member of the association for two semesters.

SEC. 4. Officers of the association shall be nominated, two for each office, by a nominating com-

mittee. Nominations may also be made from the floor on the day of election.

The nominating committee shall be made up of the presidents of all the departmental clubs of the School of Agriculture whose terms expire during the second semester of the current college year. The nominating committee shall elect its own chairman from its own group.

Nominations shall be made at least 10 days before the date of election and shall be published in the Kansas State Collegian on Tuesday before election on the following Thursday.

SEC. 5. Election shall be held at the regular meeting of the Agricultural Association in April.

Officers shall be elected by ballot which shall bear the names of the candidates who have been nominated by the nominating committee and shall provide space for the write-in of any nomination that may be made from the floor on the day of election.

SEC. 6. Newly-elected officers shall be presented to the assembled members of the Agricultural Association in May and shall take over the duties of their respective offices at that time, except—

The editor of the Kansas Agricultural Student for the current year shall carry full responsibility for the publication of the May issue of the magazine, and the newly elected editor shall assist in its publication.

SEC. 7. If any office of the Agricultural Association, or of the Agricultural Council hereinafter provided for, becomes vacant, the nominating committee consisting of the presidents of all departmental clubs and the agricultural education club at the time of the vacancy, shall nominate two persons as candidates for such vacated office, and those nominations shall be voted on by ballot at the next regular meeting of the Association. Nominations to fill such vacancy may also be made from the floor on the day of election.

ARTICLE IV. Duties of Officers

SEC. 1. It shall be the duty of the president to preside at all meetings of the association, which meetings shall be concurrent with regular meetings of Agricultural Seminar, and to preside at meetings of the executive council, sign all orders and other documents of the association officially drawn by the secretary, and call special meetings of the association and the executive council.

SEC. 2. It shall be the duty of the vice-president to assume the duties of president in the absence of or at the request of the president.

SEC. 3. It shall be the duty of the secretary to keep the minutes of the meetings of the association, and the executive council, to issue all orders, and assist with the checking of student attendance at Agricultural Seminar, and perform such other duties as the office of secretary may require.

SEC. 4. The manager of the Ag Barnwarmer shall appoint a chairman of such committees as he may designate to assist him in promoting the event and shall call on the assistant manager to assist him in such manner as may be necessary in the training and experience of the assistant manager. The assistant manager will be considered a likely candidate for manager in the year following his service as assistant manager.

The treasurer of the Agricultural Association shall serve as treasurer of the Ag Barnwarmer and have charge of ticket sales.

SEC. 5. The editor of the Kansas Agricultural Student shall appoint an associate editor and business manager.

The editor shall be responsible for editing and publishing four issues of the Kansas Agricultural Student per year, two in each semester.

SEC. 6. It shall be the duty of the executive council to assist in promoting all divisional student activities.

SEC. 7. It shall be the duty of the executive council to transact the business of the association, subject to modification after referendum petition has been submitted to the president, which petition is signed by 25 percent of the members of the association.

(Continued on page 27)

Ags' Champ Steer Goes at 42 Cents

By JAMES A. ORTON

Cee Kay, subject of the *Ag Student's* December cover, continued his winning ways at the National Western Stock Show in Denver last January. The Kansas State entry was crowned reserve champion Hereford steer.

At Denver, Cee Kay was sold to the Midland Packing Company for 42 cents a pound to net \$426.30. This steer had brought home ribbons from the American Royal and the International Livestock Exposition. He was given to the College in the summer of 1946 by C K Ranch.

Shortly before Cee Kay made the trip to Denver this year, John Vanier's C K ranch at Brookville moved CK Domino 34th, an animal with an outstanding show record during the 1946 show season, to Kansas State. During that year, Domino 34th won three championships and two reserve championships in five major shows.

Last year the College made use of CK Baca Royal, another Brookville champion bull. A promising group

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of calves by him is being fitted for Cruiser Domino 34th will be mated the next season's show circuit. CK to selected College Hereford cows.



Members of the Ag Council provided for in the revised constitution of the Ag Association are Kenneth Goertzen, Horticulture; Lester Crandall, Ag Education; Dick Warren, SGA representative; Sid Jagger, Ag Economics; Howard Lindholm, Animal Husbandry; Dean Schowengerdt, president of Ag Association; George Krause, Agronomy; Richard Eaton, Poultry Husbandry; Glen McCormick, Dairy Husbandry; and Bill Richards, Milling. This group meets regularly to coordinate Ag activities and plan seminar programs.

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Dr. Swanson, Former Department Head, Dies

By BILL RICHARDS

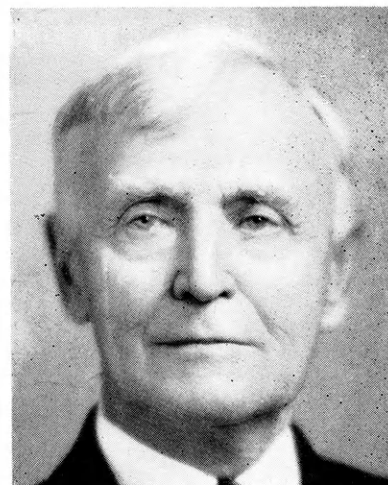
Dr. C. O. Swanson, former head of the Department of Milling Industry, died January 5.

Dr. Swanson was born in Sweden in 1869. He came to Kansas State as an assistant chemist in 1906. He was named head of the Department of Milling Industry in 1923.

In 1939, he resigned as head of the department but continued to do research until 1944. He then assumed emeritus standing.

He held a bachelor's degree from Carleton College, master's degree from the University of Minnesota, and doctor's degree from Cornell University.

He served as technologist in cereal dust explosion work with the United States Department of Agriculture. He made a special study of European milling and baking practices and the



C. O. SWANSON

demand for American wheat in 1930.

He was the author of two books on wheat and flour and of more than 100 scientific papers, circulars, and bulletins.

Dr. Swanson's works will be assembled in a memorial library under the direction of the Department of Milling Industry.

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Certified seed is seed of known superior heredity and quality verified by and traceable through the periodic inspections of the Kansas Crop Improvement Association.

It is this "known superior heredity" that distinguishes certified from other seed.

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The Kansas Crop Improvement Assn.

MANHATTAN, KANSAS

Essay Competition Plugs Good Farming

By J. J. ROCKERS

Early in April, an agronomy major will receive a \$60 first prize in an essay contest being sponsored by the Thompson Phosphate Company of Chicago. Second through sixth place winners will receive \$90 in prizes.

The contest is being sponsored to stimulate good agricultural practices, as evidenced by the 19 topics suggested for entrants. Topics include "The Importance of Phosphorus in Human and Animal Food" and "Erosion Control Value of Cover Crops."

Essays should be submitted to Prof. H. E. Jones on or before April 1. Placings will be determined by a committee of three from the agronomy department staff.

Stephen M. Raleigh, Ag '27, was named associate professor of agronomy in Pennsylvania State College recently. He had been serving as senior agronomist for the Department of Public Works of New York state.

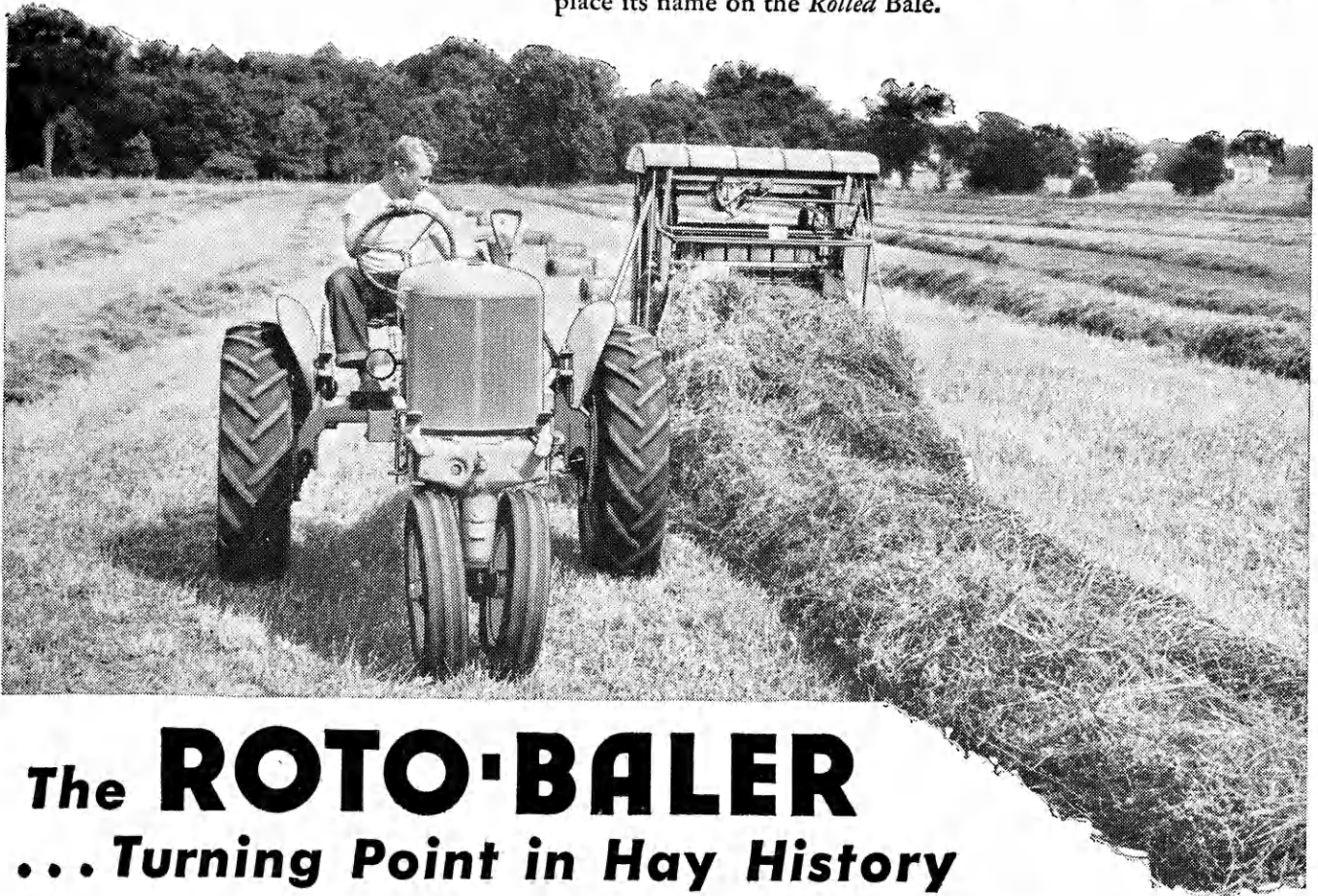
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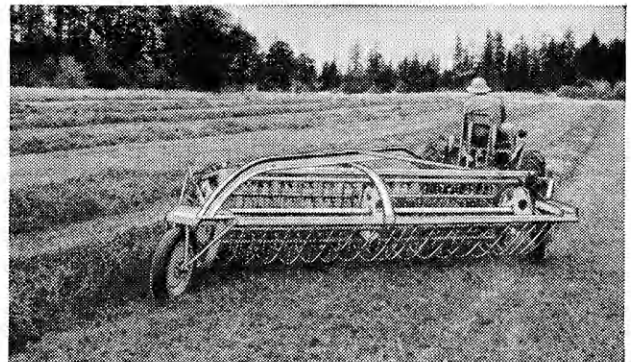
If hay could be trademarked, Allis-Chalmers would proudly place its name on the *Rolled Bale*.



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The Roto-Baler packages hay more compactly . . . in sturdy rolled bales that will not buckle . . . bales that store in less space and are convenient to handle and feed. Thousands of farmers from coast to coast are already making hay this better way . . . and like it.



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ALPHA ZETA IS

(Continued from page 14)

ship. Proven scholastic ability above all else remains the number one requirement for membership. However, Alpha Zeta has, since its founding, taken the position that scholarship alone was not adequate for election to the fraternity.

This position was taken on the ground that success in any field and

especially success in the field of agriculture requires more than technical knowledge. It requires attributes of character and personal qualifications far beyond those embraced in the realm of technical knowledge.

Consequently the fraternity has, without lessening the consideration given scholarship, placed major emphasis on such qualities as character, integrity, initiative, perseverance,

vision, faith, and courage.

Alpha Zeta, during its first 50 years, has seen teaching in agriculture and some of its supporting fields develop from a fragmentary presentation of mere observations to a thoroughly coordinated presentation of firmly established facts.

It recognizes that quality of instruction is dependent on adequate preparation and that the fraternity must take every opportunity to improve the excellency of agricultural instruction at both the collegiate and sub-collegiate levels.

It has been said that there is no such thing as a useless fact, but a fact unused is useless. Consequently, the dissemination of facts through the Extension Service has been and will continue to be of much concern to Alpha Zeta.

During the 50 years of its existence Alpha Zeta has seen the flowering of science as well as remarkable progress in the application of science to the material welfare of mankind. Unfortunately, it has not seen equal progress in spiritual and moral development.

Many feel that in these respects we have retrograded. Alpha Zeta through the years ahead will lend its influence to the end that progress in social science keep pace with physical progress. Unless this is done the fraternity recognizes that material progress may have been in vain.

Alpha Zeta is justly proud of its accomplishments during the past 50 years, and of the principle upon which the fraternity is established. With this firm foundation the fraternity looks forward with confidence to another 50 years of outstanding service.



● NITRAGIN inoculation, the first commercially produced legume bacteria, was registered in 1898. Millions of bushels of alfalfa, soybeans, clovers and other legume seed are inoculated with NITRAGIN every year. There is good reason for this. Farmers know that inoculation increases yields and improves the quality of their legumes. They know that NITRAGIN'S bacteria strains have been continually improved by laboratory and field-testing. Legumes grown for hay and seed show healthier growth . . . have added resistance to drought and winterkill when inoculated with NITRAGIN. Leading seedsmen everywhere sell NITRAGIN . . . the inoculant in the yellow can. Be sure to get it in the correct culture for the legumes you grow.



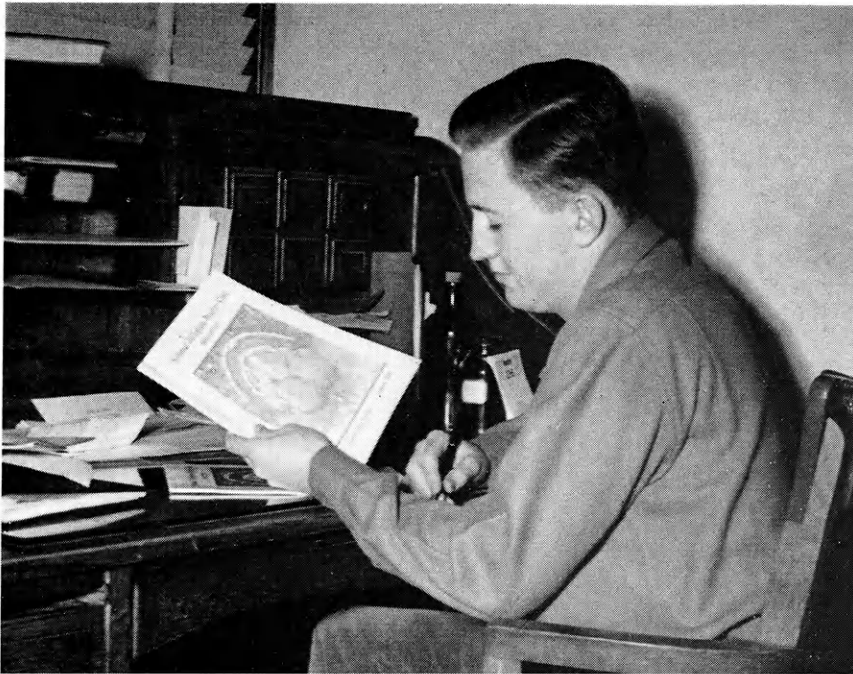
Note contrast above. Results like these are common in plot-testing of NITRAGIN inoculation. Higher protein content . . . improved soil fertility and other values of inoculated legumes do not show in these photographs.



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T. M. James, president of the National Collegiate Poultry Club, glances at the cover of the Newsletter published by the Kansas State Poultry Science Club. Publication of the Newsletter is rotated among the various state chapters, and January was Kansas State's month.

AG ASS'N CONSTITUTION

(Continued from page 22)

ARTICLE V. Amendment

SEC. 1. This constitution may be amended by a three-fourths vote of the members present at a meeting of the association, provided that such amendment shall have been presented at the previous meeting of the association.

BY-LAWS

ARTICLE I

This association shall convene for special meetings at the call of the president.

ARTICLE II

A quorum shall consist of 100 members.

ARTICLE III

Dues of this association shall be included with and made a part of the regular Agricultural Seminar fees and shall include a subscription to The Kansas Agricultural Student.

ARTICLE IV

In all cases not covered by this constitution and by-laws, Robert's Rules of Order shall be the standard of authority.

ARTICLE V

There is hereby created an Agricultural Council for the School of Agriculture. This Council shall be composed of 11 members. The chairman shall be the Student Governing Association representative elected from the School of Agriculture. One representative shall be selected from each of the seven agricultural departments, and one each from the Agricultural Education Club and the Agricultural Journalism curriculum; the president of the Agricultural Association shall be an ex-officio member of the Council.

The Council members shall be departmental majors and qualified according to the Student Governing Association Constitution and by-laws.

Candidates for the Council shall be nominated by petitions carrying a minimum of 15 signatures of Agricultural Association members. Said petitions must be submitted to the respective depart-

mental heads at least five days prior to the election date and posted.

Members of the Council shall be elected respectively at departmental seminars sponsored by the student departmental clubs. Those members of the Agricultural Association who have declared their majors shall vote in their respective departmental seminars, and all other Association members may vote in any one departmental seminar.

These seminars shall be on the second Thursday of April, at which elections the presidents of the respective departmental clubs shall preside. Agricultural Education majors shall be recognized as an agricultural department in connection with the Council election.

This Council shall function as a policy-developing group concerned with inter-school affairs and relations and agricultural student matters. Officers of the Council, other than the chairman, shall be elected by the members themselves. Minutes of each meeting shall be filed with the dean of the School of Agriculture and a copy shall be posted on each departmental bulletin board.

Bob Steele, Conway; James Kirke-minde, Alta Vista; Louis Emme, Kensington; Dale Gillan, Garden City; Harold Black, Reece; and Charles Dutton, Concordia are the members of the junior livestock judging team selected to represent the College at the Oklahoma City contest. They are coached by Don Good, instructor in animal husbandry.

J. J. Moxley, Ag '22, is the newly-elected president of the Kansas Hereford Breeders' Association. Mr. Moxley was featured in the December issue of the Ag Student.



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Harold Ray won second place with this shot in last year's Ag Student Photo Contest.

Crops Judges To Harvest Prizes

By J. J. ROCKERS

The annual crops judging contest sponsored by Klod and Kernel Klub will be held May 8.

There will be three divisions—freshman, junior, and senior—in the contest this year. The freshman division may be entered by students who have not taken Farm Crops. The junior division is open to students who have taken that course, and the

senior division is for students who have taken Advanced Grain Grading and Judging.

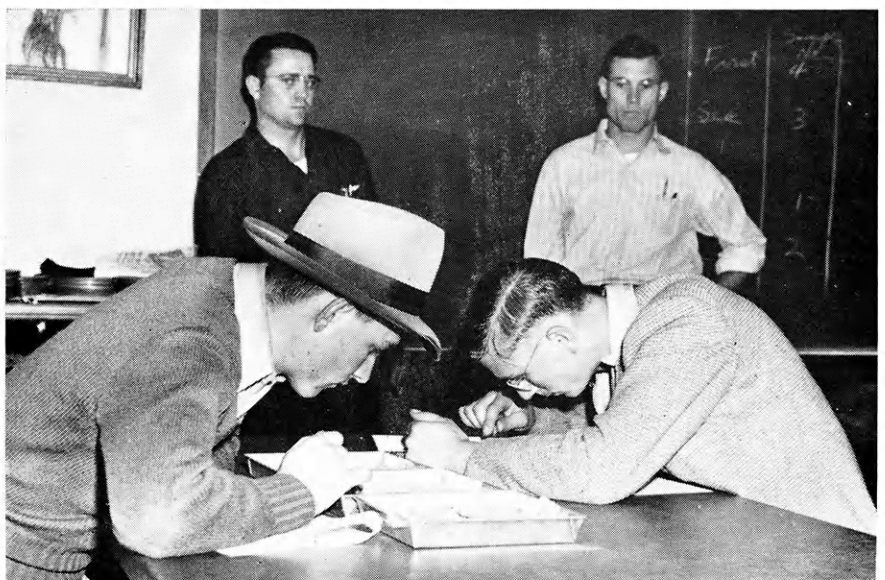
Within the divisions, there are contests in crop and weed identification, grain grading, and grain judging. Prizes will be divided equally among the three divisions.

The committee appointed to handle the prizes this year reports that this year's contest will be as attractive as the one held last year from the prize standpoint.

Among those whose contributions have been received so far are: Missouri Hybrid Corn Company, one bushel of U. S. No. 13 seed corn; Chase Bag Company, toweling and sack material; Kansas Crop Improvement Association, \$20; Southwestern Miller, \$5; Urbana Laboratories, one pint of Rich or Poor solution and one dozen vials; Successful Farming, one one-year subscription.

International Harvester, \$5; DeKalb Agricultural Association, \$10; Earl E. May Seed Company, 2 bushels hybrid No. 59A seed corn; Kansas Farmer, one three-year subscription, one two-year subscription, and one one-year subscription; Sears Roebuck Foundation, \$15; Weekly Kansas City Star, \$20.

Corneli Seed Company, one bushel seed corn, Keystone No. 38; Associated Millers of Kansas Wheat, \$10; John Deere Plow Company, \$10; Hellice, Inc., one Truog Soil Kit; Chamber of Commerce, Kansas City, Mo., \$10; Bartelds Seed Company, \$5.



Glen Shriver and Bob Leonard look on as FFA contestants make their placings in the '47 crops contest.



Samuel Claar, Billie Reid, Arthur Jacobs, Thomas Bentley, and Glenn McCormick demonstrate the proper way to pose Jersey calves. Approximately 180 Ags are teaching livestock manners as the students fit the animals for the Little American Royal.

Three Men to Staff Of Animal Husbandry

By BOB STEELE

Three men have been added to the animal husbandry staff in the past month, according to Dr. A. D. Weber, head of the animal husbandry department.

Robert L. Henrickson has been promoted from graduate assistant in meats to a full time instructorship in meats. He was high man at the International Intercollegiate meat judging contest at Chicago in 1946 and was on the K-State meat judging team at the American Royal Livestock Show in Kansas City the same year. Mr. Henrickson received his B. S. at K-State in 1947 and is now working on his M. S.

Edgar Smith has been hired as an assistant professor in animal husbandry. He will do research in meats and animal nutrition. Mr. Smith received his B. S. in 1942 from Texas A & M and his M. S. from K-State in 1947.

Desmond B. Watt has been employed as graduate assistant in meats. Mr. Watt received his B. S. from the University of Alberta, Canada, in 1947 and is now working on his M. S. here at K-State.

M. I. Gould, '15, was the first county agent in Nebraska to be given a Certificate of Outstanding ser-

vice by the National Association of County Agents. He has been particularly active in Nebraska livestock circles. In addition to his work as a county agent at Broken Bow, he maintains a Silver Crest Fox Farm with 150 breeding females.

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Dr. Green, Former Staff Member, Dies

By GLEN ALLEN

Dr. Roy Green, president of Colorado State College and former staff member of the Department of Economics and Sociology here, died January 22.

Dr. Green was graduated from the University of Missouri in 1914, and worked with the United States Department of Agriculture before joining the Kansas State faculty in 1920. He received his master's degree here in 1923, and taught agricultural economics until 1934. He then became vice-president of the Production Credit Corporation at Wichita.

In 1935 he went to Washington with the Farm Credit Administration, and was deputy governor of the federal land bank in Washington, D. C., when named to head Colorado State College in 1940. The following year Kansas State granted him an honorary doctor of science degree.

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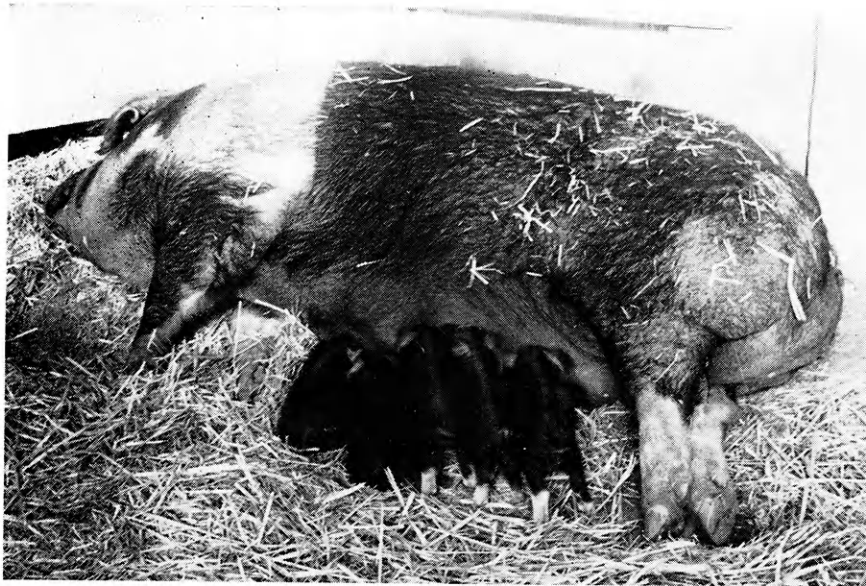
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Keith Mull demonstrated what can be done with a 35mm when he took fifth place in last year's contest. The 35mm is popular with many photographers.

BOOK REVIEW

THE WORLD GROWS ROUND MY DOOR

David Fairchild. Charles Scribner's Sons. New York. 1947.

Those who have read Fairchild's other books can foresee the pleasure in store for them in this new volume with the sub-title, *The story of the Kampong, a home at the edge of the tropics*". The 30 years of living in this Florida home near Coconut Grove, south of Miami, and overlooking Biscayne Bay, is not told in consecutive, biographical manner but is sketched from interesting, and many of them dramatic, incidents.

Twenty-six chapters are named. They vary in length from three to 15 pages and in subject matter from bits of a plantsman's philosophy, through historical references to the work and men of the S. P. I., "nesting habits of humans" description of hurricanes and tributes to the mango, to very valuable and scientific plant lore.

The book is illustrated by about one hundred photographs of high quality and consuming interest.

Kansans will especially enjoy Doctor Fairchild's references to his years as a boy and young man on the campus of Kansas State College, though he does leave the impression that his sense of hearing and his taste buds were poorly trained while there. The reader's mouth will water from just the words describing the taste and

flavor of the tropical fruits he describes, the mango, avocado, papaya, guava, white sapote, loquat, mangosteen and many others. The reader probably also will lose his sense of time while reading this book.

—R. J. BARNETT

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MANHATTAN, KANSAS

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DUNCAN HINES'
*"Adventures in Good
Eating"*

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You'll Like the Food
and the Service

The Last Word



Contest Experience Weighs with Prize

During the next several weeks, many ag students will be busy participating in student judging contests of various kinds sponsored by the departmental clubs of the school.

The contests give ags an opportunity to test their abilities—and the contests are a good test of ability. This is evident when high placers of past years have later made intercollegiate judging teams.

Even more important than winning prizes and related honors in these contests is the vast experience gained by those who enter, whether they place or not. Many students enter several or all of the various contests. This widening of agricultural horizons by the students is an invaluable opportunity offered by no other medium. The contests certainly are worthy of the time and effort spent by the departmental organizations—which make them possible.—M. B.

Michigan Blue Ribbon Handed K-State Eggs

By T. M. JAMES

The Poultry Science Club at Kansas State College won the blue ribbon for its entry of three dozen brown eggs at the Second Annual Egg Show held at Michigan State College, January 26-30.

The same eggs also won a trophy for the best Poultry Science Club entry in the contest. Last year Kansas State's Poultry Science Club took third prize with its entry of brown eggs and fourth prize on an entry of white eggs at the Michigan show.

Hundreds of eggs were checked to find three dozen usable ones for the contest and they were shipped Saturday afternoon, January 24. Claude Moore, Dick Eaton, Bob Coombs, Bill Johnson, Charles Hatfield, Prof. T. B. Avery, and Prof. C. L. Gish of the

poultry department selected the eggs. "I knew they were good eggs, but not that good!" exclaimed Professor Avery after the award had been received.

Dairy Cattle Judges Compete for Plaque

By WALLACE A. MOYLE

The annual student dairy cattle judging contest will be held March 20 in the Livestock Judging Pavilion, Glen McCormick, president of the Dairy Club, announces.

The contest is open to all students in College. There will be a junior and a senior division. Students who have had Dairy Cattle Judging or its equivalent will enter the senior division while the other entrants will be eligible for the junior division.

Prizes will be awarded high-point men and runners-up in each division. The awards are now on display in the showcase on the first floor of West Waters Hall.

Aggie Enrollment Hits Spring Peak

Last year's record enrollment of 961 for the spring semester in the School of Agriculture looked almost insignificant when this year's ag enrollment was placed alongside it.

This spring there are 1236 students in agriculture. Last semester there were 1257. Thirty-seven were graduated in January.

With "taking care of everybody" a problem last year, faculty members had even more to think about this year. Problems of bigger classes and less opportunity for individual instruction are being overcome, though.

Total enrollment for the College this semester is 6804.

Adapted grass-legume combinations furnish several hundred times more soil protection than cultivated crops planted up and down the slopes.